

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P320983

Luminaire Tested: **GAN-SA9D-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71163 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

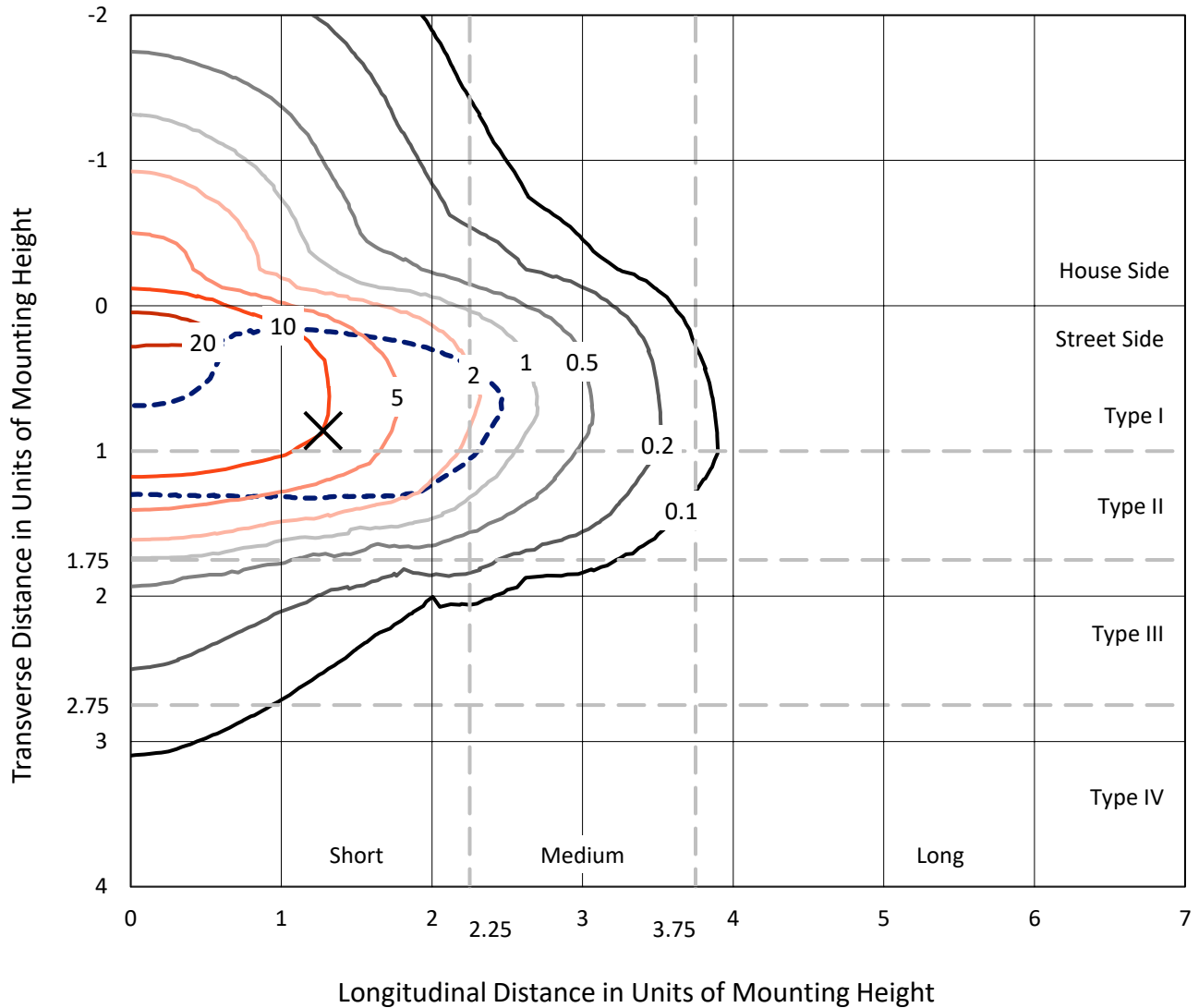
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

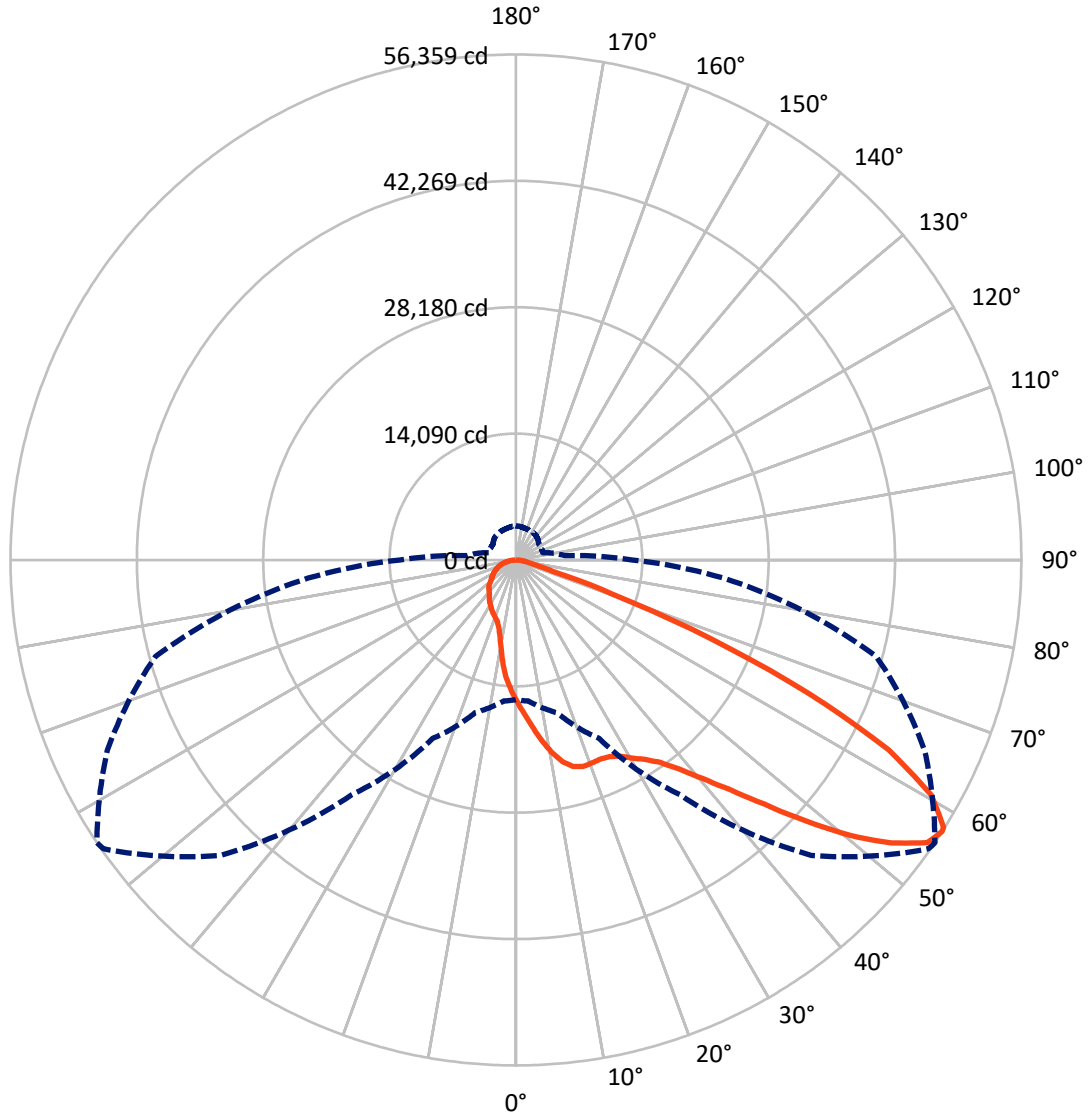
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 24.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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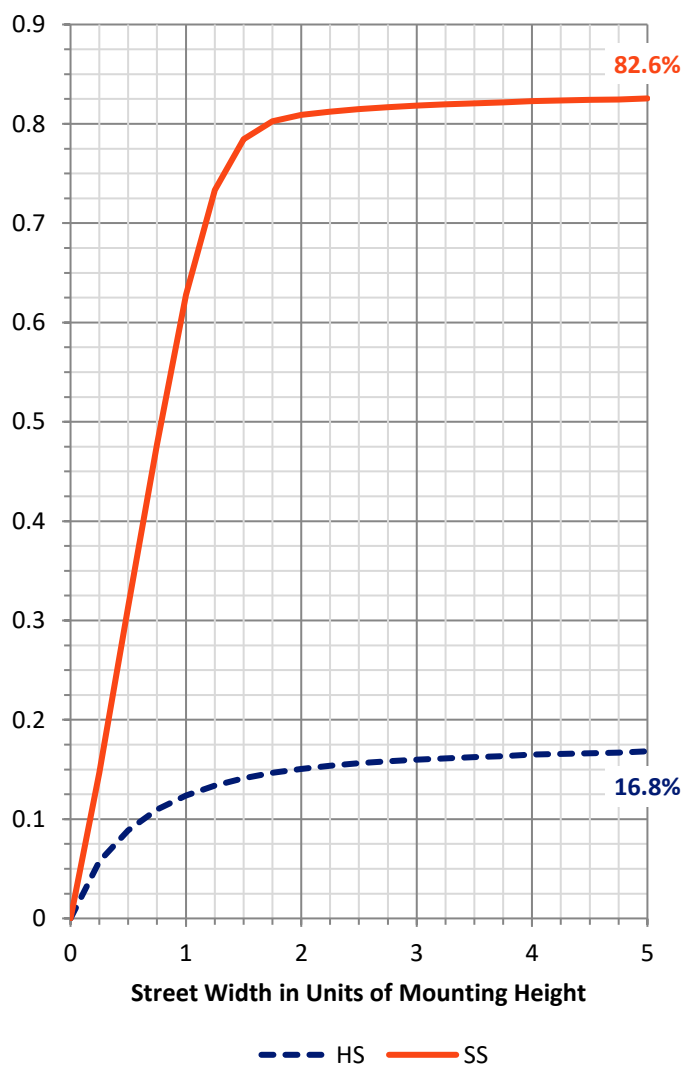
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12267.0	0.0	12267.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	58896.0	0.0	58896.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	71163.0	0.0	71163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1507.8	2.1
10°-20°	4262.8	6.0
20°-30°	6943.3	9.8
30°-40°	10379.5	14.6
40°-50°	15743.4	22.1
50°-60°	17645.6	24.8
60°-70°	10422.2	14.6
70°-80°	3414.7	4.8
80°-90°	843.6	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	71163.0	100.0
0°-180°	71163.0	100.0

Coefficient of Utilization



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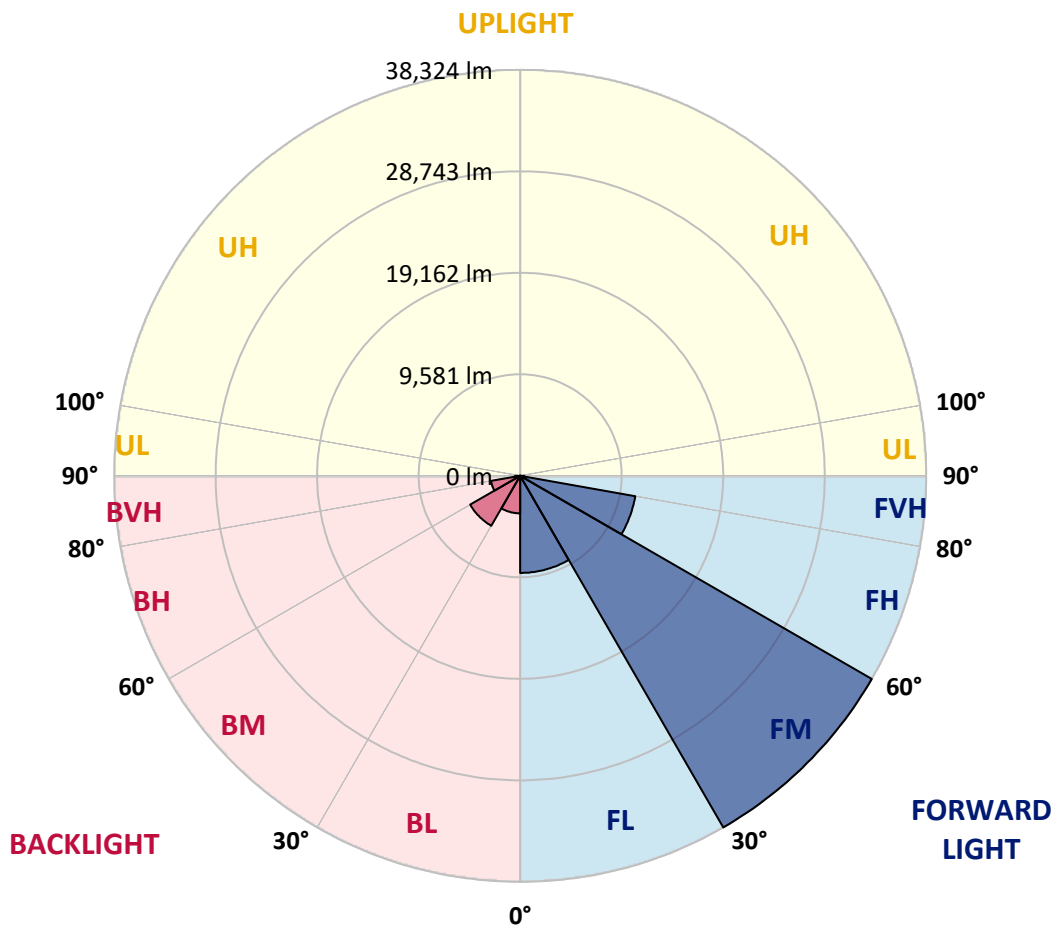
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9166.9	12.9			
FM (30°-60°)	38323.6	53.9			
FH (60°-80°)	11034.0	15.5			G4/12000
FVH (80°-90°)	371.5	0.5			G3/500
BL (0°-30°)	3547.0	5.0	B4/5000		
BM (30°-60°)	5444.9	7.7	B4/8500		
BH (60°-80°)	2802.9	3.9	B4/5000		G4/5000
BVH (80°-90°)	472.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0
2.5°	18124.5	18290.8	18217.4	17963.1	17767.4	17491.1	17182.9	17090.0	16764.7	16400.3	15962.5
5°	20993.2	20910.0	20790.2	20394.0	19975.8	19489.1	18716.3	18594.0	17870.1	17046.0	16175.3
7.5°	22626.9	22619.5	22548.6	22316.3	21934.7	21298.9	20367.1	20222.8	19129.6	17804.1	16454.1
10°	22389.6	22372.5	22489.9	22732.0	22847.0	22714.9	21929.9	21785.6	20442.9	18642.9	16776.9
12.5°	21042.1	21051.9	21240.2	21748.9	22441.0	23272.5	23145.3	23074.4	21805.1	19591.8	17168.2
15°	19992.9	20014.9	20164.1	20606.8	21423.6	22932.6	23883.9	23908.4	23123.3	20638.6	17625.6
17.5°	19533.2	19579.6	19648.1	19958.7	20707.0	22255.1	24060.0	24192.1	24277.6	21724.4	18065.8
20°	19679.9	19723.9	19743.5	19941.6	20555.4	21844.3	23937.7	24174.9	25163.0	22746.7	18506.0
22.5°	20337.8	20364.7	20376.9	20428.2	20905.1	21961.6	23857.0	24106.5	25803.7	23663.8	18838.6
25°	21428.5	21408.9	21330.7	21264.6	21585.0	22426.3	24042.9	24280.1	26324.6	24495.3	19056.3
27.5°	22734.5	22710.0	22558.4	22377.4	22560.8	23150.2	24578.5	24766.8	26791.7	25273.0	19166.3
30°	24302.1	24238.5	23952.4	23737.2	23808.1	24236.1	25461.3	25632.5	27513.2	26155.9	19273.9
32.5°	26114.3	26045.8	25632.5	25275.5	25275.5	25632.5	26371.1	26512.9	28124.6	27153.7	19447.6
35°	28383.8	28298.2	27760.2	27161.0	26992.3	27173.3	27611.0	27711.3	29225.1	28410.7	19763.0
37.5°	31059.3	30944.4	30247.4	29445.2	29076.0	29066.2	29381.7	29587.1	30983.5	30061.5	20298.6
40°	33742.2	33661.5	33052.5	32421.6	31697.7	31465.3	31952.0	32015.6	33282.4	32111.0	20983.4
42.5°	35816.1	35801.4	35688.9	35772.1	35031.0	34561.5	34943.0	34994.3	36090.0	34329.1	21712.2
45°	36911.7	36936.2	37481.5	38689.7	38963.6	38621.2	38809.5	38824.2	39298.6	36566.9	22379.8
47.5°	36033.7	36160.9	37540.2	40242.6	42485.3	43622.5	43309.4	43490.4	42409.5	38489.1	22903.2
50°	32612.3	32768.8	35116.6	39550.5	44128.7	48462.4	48298.5	48256.9	44918.7	39897.8	23186.9
52.5°	28374.1	28496.3	30433.3	35953.0	42923.0	51137.9	52641.9	52426.7	47149.1	40951.9	23240.7
55°	21920.1	22110.8	23967.1	28772.7	38046.5	50115.6	55835.9	55642.7	49181.4	41504.6	23177.1
57°	15583.5	15784.0	17628.0	21959.2	32005.8	46576.8	56153.8	56359.3	50279.5	41597.5	23248.0
57.5°	13905.8	14111.2	15938.1	20144.6	30122.7	45297.7	55879.9	56222.3	50477.6	41582.8	23287.2
60°	7001.8	7080.1	8244.2	11245.0	19041.6	36620.7	52306.9	53189.7	50656.1	40863.8	23455.9
62.5°	4353.2	4297.0	4260.3	5179.8	9264.0	24285.0	44933.3	46633.0	47239.6	39122.6	23047.5
65°	3827.4	3722.2	3318.7	3245.3	4091.5	11795.2	33837.6	35953.0	39939.4	36378.6	22074.1
67.5°	3595.1	3492.3	3037.5	2763.5	2766.0	4676.0	21007.9	23389.9	31113.2	31739.2	19777.7
70°	3355.4	3262.5	2836.9	2514.1	2355.1	2589.9	9665.1	11472.4	20281.5	24947.7	16529.9
72.5°	3047.2	2983.7	2580.1	2247.5	2078.8	1939.4	3700.2	4370.3	11741.4	16754.9	11479.7
75°	2724.4	2665.7	2320.9	2003.0	1797.5	1526.1	2083.7	2245.1	5964.9	8571.9	5651.8
77.5°	2369.8	2335.6	2064.1	1770.6	1606.8	1264.4	1474.7	1553.0	2558.1	3675.8	2834.5
80°	1885.6	1951.6	1804.9	1577.4	1425.8	1012.5	1044.3	1095.6	1489.4	1795.1	1609.2
82.5°	1227.7	1342.6	1413.6	1281.5	1173.9	797.3	750.8	772.8	970.9	1095.6	699.4
85°	511.1	574.7	929.3	838.8	780.2	582.1	503.8	513.6	601.6	623.6	286.1
87.5°	227.4	242.1	408.4	384.0	330.2	200.5	215.2	234.8	320.4	303.3	110.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0	15784.0
2.5°	15798.7	15593.3	15241.1	14852.2	14534.3	14280.0	14023.2	13847.1	13641.7	13531.6	13475.4
5°	15810.9	15407.4	14666.4	13905.8	13225.9	12604.7	12012.9	11558.0	11132.5	10902.6	10839.0
7.5°	15862.3	15255.8	14057.4	12805.3	11597.1	10494.1	9643.1	9109.9	8726.0	8554.8	8505.9
10°	15903.9	15077.2	13304.2	11450.4	9806.9	8689.3	8029.0	7730.6	7598.5	7576.5	7554.5
12.5°	16001.7	14893.8	12511.8	10036.8	8415.4	7642.6	7412.7	7393.1	7429.8	7483.6	7483.6
15°	16155.8	14712.8	11606.9	8823.8	7530.1	7258.6	7305.1	7412.7	7512.9	7596.1	7608.3
17.5°	16268.3	14490.3	10633.5	7852.9	7058.1	7131.4	7297.7	7449.4	7552.1	7632.8	7640.1
20°	16349.0	14145.5	9594.2	7111.9	6786.6	7014.0	7221.9	7356.4	7427.3	7508.0	7520.3
22.5°	16307.4	13683.2	8672.2	6581.2	6566.5	6842.8	7040.9	7202.3	7148.5	7070.3	7121.6
25°	16106.8	13047.4	7723.3	6185.0	6334.2	6613.0	6857.5	6749.9	6568.9	6534.7	6554.3
27.5°	15749.8	12235.4	6845.3	5818.1	6065.1	6400.2	6385.5	6277.9	6214.3	6170.3	6197.2
30°	15365.8	11355.0	6077.4	5497.7	5766.8	6043.1	5986.9	5984.4	5920.8	5849.9	5884.2
32.5°	14986.7	10469.7	5468.4	5233.6	5541.8	5578.5	5700.7	5737.4	5612.7	5463.5	5453.7
35°	14656.6	9633.3	5006.2	4994.0	5270.3	5275.2	5453.7	5402.4	5091.8	4937.7	4937.7
37.5°	14409.6	8799.3	4654.0	4778.7	4913.2	5040.4	5130.9	4918.1	4866.8	4781.2	4778.7
40°	14302.0	8065.6	4433.9	4614.9	4661.3	4822.8	4590.4	4673.6	4698.0	4654.0	4654.0
42.5°	14189.5	7427.3	4243.1	4490.2	4482.8	4460.8	4343.4	4451.0	4548.8	4551.3	4544.0
45°	14077.0	6877.1	4074.4	4223.6	4326.3	4089.1	4111.1	4226.0	4363.0	4411.9	4411.9
47.5°	13952.3	6441.8	3920.3	3942.3	4101.3	3942.3	3925.2	4013.3	4174.7	4252.9	4270.0
50°	13678.3	6050.5	3744.2	3695.3	3739.3	3793.2	3807.8	3849.4	4027.9	4152.7	4182.0
52.5°	13299.3	5700.7	3519.2	3467.9	3467.9	3670.9	3739.3	3751.6	3903.2	4052.4	4081.7
55°	12983.8	5478.2	3286.9	3277.1	3267.3	3541.3	3658.6	3678.2	3783.4	3900.8	3915.4
57°	13005.8	5461.1	3108.4	3118.2	3115.7	3409.2	3582.8	3624.4	3678.2	3778.5	3795.6
57.5°	13018.0	5473.3	3069.3	3074.1	3071.7	3372.5	3560.8	3607.3	3648.9	3754.0	3771.1
60°	13201.4	5505.1	2910.3	2856.5	2868.7	3176.9	3436.1	3494.8	3521.7	3661.1	3683.1
62.5°	12930.0	5363.2	2783.1	2653.5	2653.5	2971.4	3262.5	3355.4	3397.0	3585.3	3622.0
65°	12142.5	4964.6	2633.9	2423.6	2448.1	2766.0	3054.6	3206.2	3269.8	3504.6	3543.7
67.5°	10927.0	4502.4	2475.0	2218.2	2242.6	2550.8	2839.4	3003.2	3103.5	3416.5	3448.3
70°	9344.7	3937.4	2259.8	2000.5	2029.9	2316.0	2585.0	2770.9	2920.1	3333.4	3343.2
72.5°	6889.3	3228.2	1958.9	1760.8	1792.6	2042.1	2328.2	2543.4	2744.0	3125.5	3120.6
75°	4096.4	2523.9	1626.3	1518.7	1540.7	1773.1	2095.9	2357.6	2658.4	3044.8	3091.3
77.5°	2484.7	1900.2	1325.5	1271.7	1298.6	1535.8	1929.6	2208.4	2621.7	2871.2	2856.5
80°	1501.6	1357.3	1059.0	1024.7	1051.6	1313.3	1785.3	2095.9	2291.5	2453.0	2453.0
82.5°	785.0	829.1	777.7	750.8	787.5	1066.3	1623.9	1829.3	2025.0	1738.8	1623.9
85°	320.4	432.9	472.0	469.6	491.6	738.6	1401.3	1565.2	1306.0	1239.9	1269.3
87.5°	107.6	183.4	229.9	198.1	207.9	464.7	970.9	755.7	897.5	626.1	594.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)