

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: P320943

Luminaire Tested: **GAN-SA9D-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320943
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-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64808 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

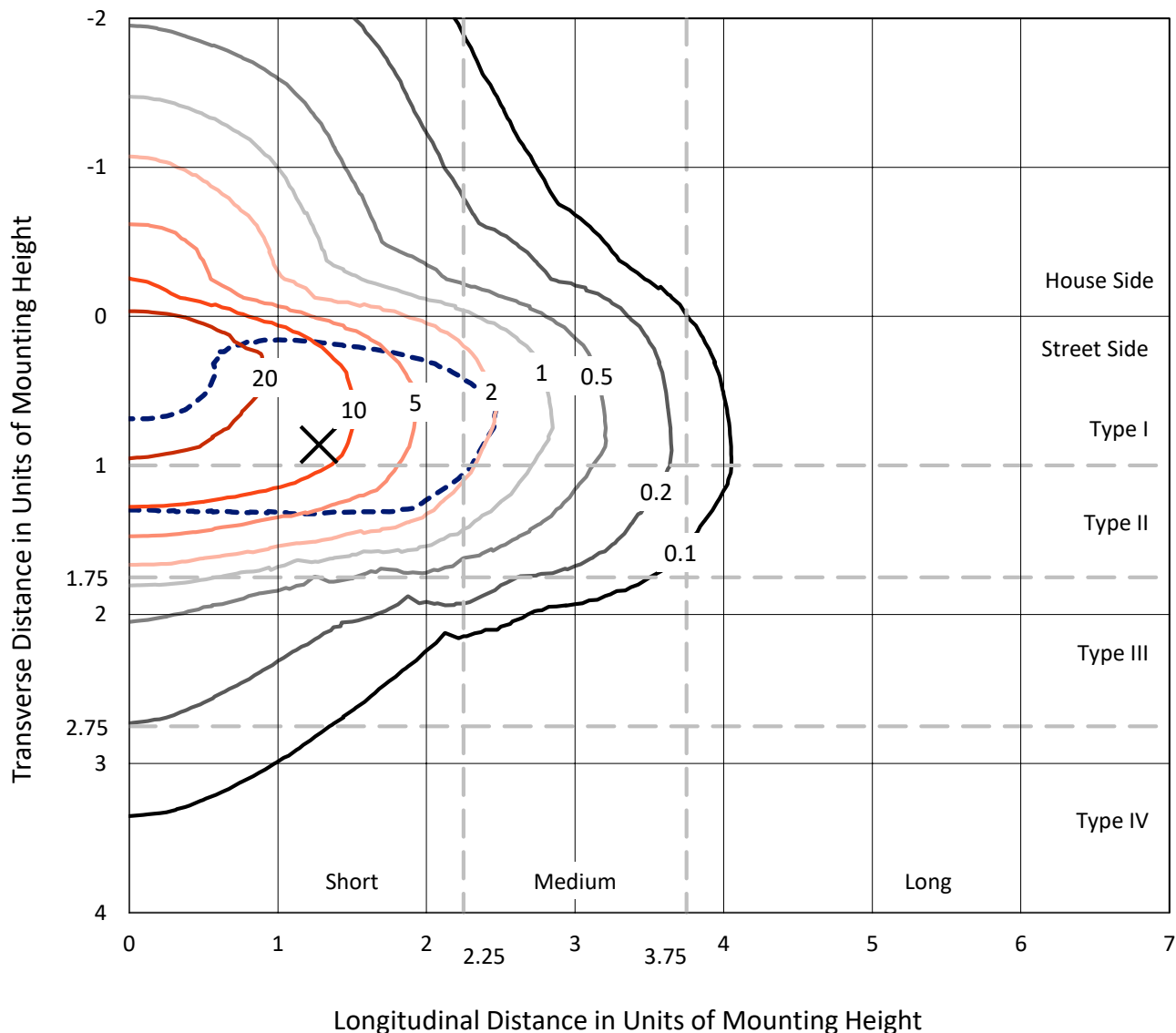
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

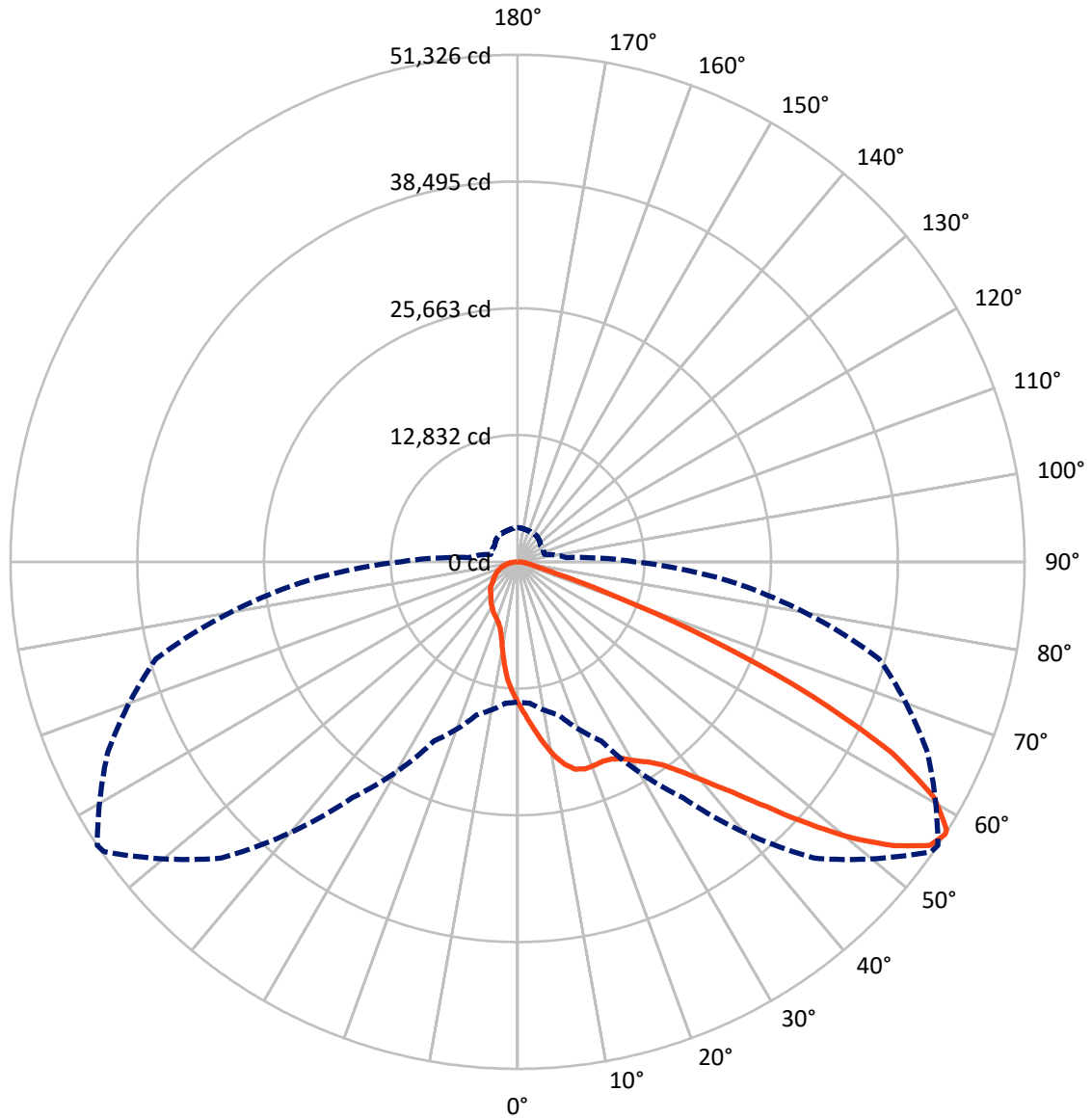
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.9 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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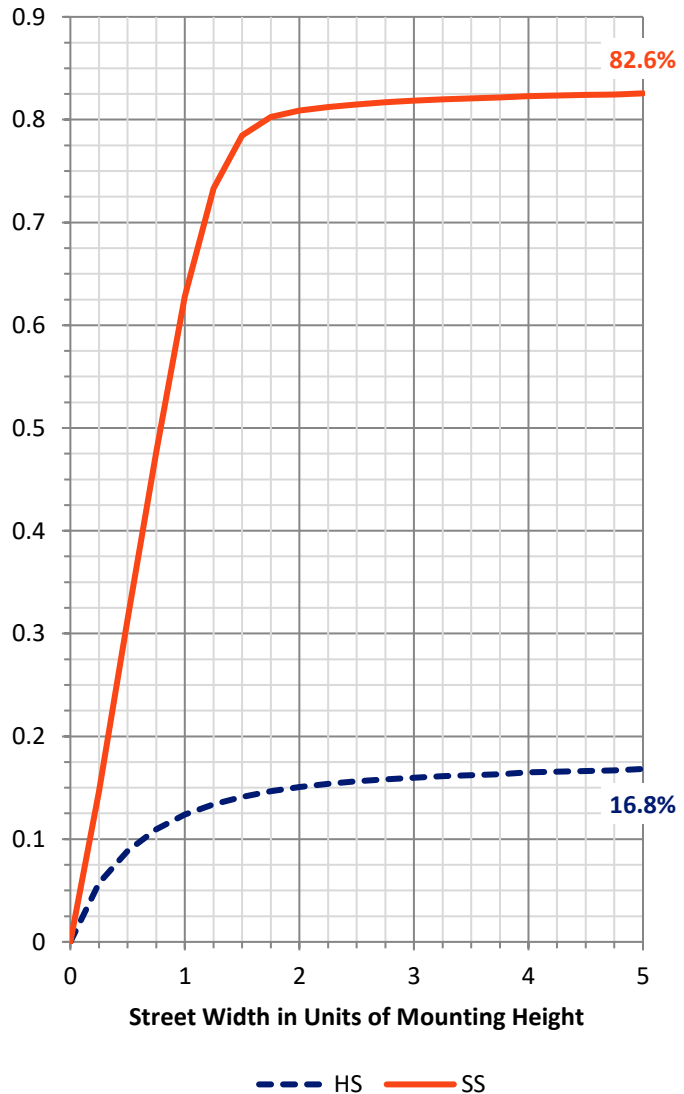
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11171.5	0.0	11171.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	53636.5	0.0	53636.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	64808.0	0.0	64808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1373.1	2.1
10°-20°	3882.1	6.0
20°-30°	6323.3	9.8
30°-40°	9452.6	14.6
40°-50°	14337.5	22.1
50°-60°	16069.8	24.8
60°-70°	9491.5	14.6
70°-80°	3109.8	4.8
80°-90°	768.3	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°	64808.0	100.0
0°-180°	64808.0	100.0

Coefficient of Utilization

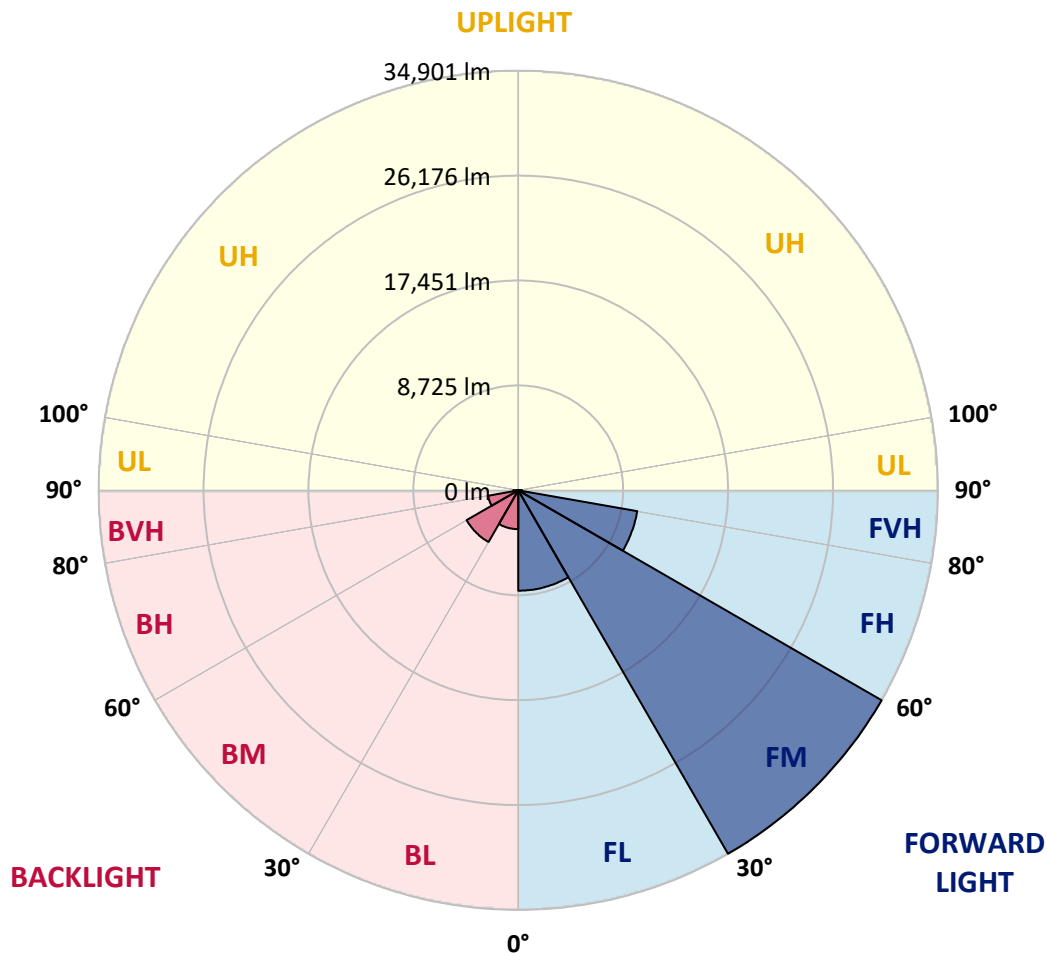


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8348.2	12.9			
FM (30°-60°)	34901.3	53.9			
FH (60°-80°)	10048.7	15.5			G4/12000
FVH (80°-90°)	338.3	0.5			G3/500
BL (0°-30°)	3230.3	5.0	B4/5000		
BM (30°-60°)	4958.7	7.7	B3/5000		
BH (60°-80°)	2552.6	3.9	B4/5000		G4/5000
BVH (80°-90°)	430.0	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°	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5
2.5°	16505.9	16657.4	16590.6	16358.9	16180.7	15929.1	15648.4	15563.8	15267.6	14935.7	14537.1
5°	19118.5	19042.7	18933.6	18572.8	18191.9	17748.7	17044.9	16933.5	16274.3	15523.7	14730.8
7.5°	20606.2	20599.6	20535.0	20323.4	19975.9	19396.9	18548.3	18416.9	17421.3	16214.2	14984.7
10°	20390.2	20374.6	20481.5	20702.0	20806.7	20686.4	19971.5	19840.1	18617.3	16978.1	15278.7
12.5°	19163.0	19171.9	19343.4	19806.7	20437.0	21194.2	21078.4	21013.8	19857.9	17842.3	15635.1
15°	18207.5	18227.6	18363.4	18766.5	19510.4	20884.6	21751.0	21773.3	21058.4	18795.5	16051.6
17.5°	17788.8	17831.1	17893.5	18176.3	18857.9	20267.7	21911.4	22031.7	22109.6	19784.4	16452.5
20°	17922.4	17962.5	17980.3	18160.7	18719.8	19893.5	21800.0	22016.1	22915.9	20715.4	16853.4
22.5°	18521.6	18546.1	18557.2	18604.0	19038.3	20000.4	21726.5	21953.7	23499.4	21550.6	17156.3
25°	19514.9	19497.1	19425.8	19365.7	19657.4	20423.6	21895.8	22111.8	23973.8	22307.8	17354.5
27.5°	20704.2	20682.0	20543.9	20379.1	20546.1	21082.9	22383.6	22555.0	24399.2	23016.1	17454.7
30°	22131.9	22074.0	21813.4	21617.4	21682.0	22071.7	23187.6	23343.5	25056.2	23820.1	17552.7
32.5°	23782.2	23719.9	23343.5	23018.3	23018.3	23343.5	24016.1	24145.3	25613.0	24728.8	17710.8
35°	25849.1	25771.2	25281.2	24735.5	24581.8	24746.6	25145.3	25236.6	26615.3	25873.6	17998.2
37.5°	28285.7	28181.0	27546.2	26815.7	26479.4	26470.5	26757.8	26944.9	28216.6	27377.0	18485.9
40°	30728.9	30655.4	30100.9	29526.2	28867.0	28655.4	29098.6	29156.5	30310.2	29243.4	19109.5
42.5°	32617.6	32604.3	32501.8	32577.5	31902.7	31475.1	31822.5	31869.3	32867.1	31263.5	19773.3
45°	33615.4	33637.7	34134.4	35234.6	35484.1	35172.2	35343.7	35357.1	35789.2	33301.4	20381.3
47.5°	32815.8	32931.7	34187.8	36648.9	38691.3	39726.9	39441.8	39606.6	38622.2	35052.0	20857.9
50°	29700.0	29842.5	31980.6	36018.6	40187.9	44134.6	43985.4	43947.5	40907.3	36334.9	21116.3
52.5°	25840.2	25951.6	27715.5	32742.4	39089.9	46571.2	47940.9	47744.9	42938.6	37294.8	21165.3
55°	19962.6	20136.3	21826.7	26203.2	34648.9	45640.2	50849.6	50673.7	44789.4	37798.1	21107.4
57°	14191.8	14374.5	16053.8	19998.2	29147.6	42417.4	51139.2	51326.3	45789.4	37882.8	21171.9
57.5°	12664.0	12851.1	14514.8	18345.6	27432.7	41252.6	50889.7	51201.5	45969.8	37869.4	21207.6
60°	6376.5	6447.8	7508.0	10240.8	17341.1	33350.4	47635.8	48439.8	46132.4	37214.6	21361.3
62.5°	3964.5	3913.2	3879.8	4717.3	8436.7	22116.3	40920.7	42468.6	43021.0	35628.8	20989.3
65°	3485.6	3389.8	3022.3	2955.5	3726.1	10741.9	30815.8	32742.4	36372.7	33129.9	20102.9
67.5°	3274.0	3180.5	2766.2	2516.8	2519.0	4258.4	19131.8	21301.1	28334.7	28904.9	18011.5
70°	3055.7	2971.1	2583.6	2289.6	2144.8	2358.6	8802.0	10447.9	18470.3	22719.9	15053.8
72.5°	2775.1	2717.2	2349.7	2046.8	1893.1	1766.2	3369.8	3980.0	10692.9	15258.7	10454.6
75°	2481.1	2427.7	2113.6	1824.1	1637.0	1389.8	1897.6	2044.6	5432.2	7806.4	5147.1
77.5°	2158.2	2127.0	1879.8	1612.5	1463.3	1151.5	1343.0	1414.3	2329.7	3347.5	2581.3
80°	1717.2	1777.3	1643.7	1436.6	1298.5	922.1	951.0	997.8	1356.4	1634.8	1465.5
82.5°	1118.1	1222.7	1287.3	1167.1	1069.1	726.1	683.8	703.8	884.2	997.8	637.0
85°	465.5	523.4	846.3	763.9	710.5	530.1	458.8	467.7	547.9	567.9	260.6
87.5°	207.1	220.5	371.9	349.7	300.7	182.6	196.0	213.8	291.8	276.2	100.2
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°	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5	14374.5
2.5°	14387.8	14200.8	13880.0	13525.9	13236.4	13004.7	12770.9	12610.5	12423.4	12323.2	12272.0
5°	14399.0	14031.5	13356.6	12664.0	12044.8	11479.1	10940.1	10525.8	10138.3	9928.9	9871.0
7.5°	14445.7	13893.4	12802.1	11661.7	10561.5	9557.0	8781.9	8296.4	7946.7	7790.8	7746.3
10°	14483.6	13730.8	12116.1	10427.8	8931.1	7913.3	7312.0	7040.2	6920.0	6899.9	6879.9
12.5°	14572.7	13563.8	11394.5	9140.5	7663.9	6960.1	6750.7	6732.9	6766.3	6815.3	6815.3
15°	14713.0	13399.0	10570.4	8035.8	6857.6	6610.4	6652.7	6750.7	6842.0	6917.7	6928.9
17.5°	14815.5	13196.3	9683.9	7151.6	6427.8	6494.6	6646.0	6784.1	6877.7	6951.2	6957.8
20°	14889.0	12882.2	8737.4	6476.8	6180.5	6387.7	6577.0	6699.5	6764.1	6837.6	6848.7
22.5°	14851.1	12461.3	7897.7	5993.4	5980.1	6231.8	6412.2	6559.2	6510.2	6438.9	6485.7
25°	14668.5	11882.2	7033.6	5632.6	5768.5	6022.4	6245.1	6147.1	5982.3	5951.1	5968.9
27.5°	14343.3	11142.8	6234.0	5298.6	5523.5	5828.6	5815.3	5717.3	5659.4	5619.3	5643.8
30°	13993.6	10341.0	5534.6	5006.8	5251.8	5503.5	5452.2	5450.0	5392.1	5327.5	5358.7
32.5°	13648.4	9534.7	4980.1	4766.2	5046.9	5080.3	5191.6	5225.1	5111.5	4975.6	4966.7
35°	13347.7	8773.0	4559.1	4548.0	4799.7	4804.1	4966.7	4919.9	4637.1	4496.8	4496.8
37.5°	13122.8	8013.5	4238.4	4352.0	4474.5	4590.3	4672.7	4478.9	4432.2	4354.2	4352.0
40°	13024.8	7345.4	4037.9	4202.8	4245.1	4392.1	4180.5	4256.2	4278.5	4238.4	4238.4
42.5°	12922.3	6764.1	3864.2	4089.2	4082.5	4062.4	3955.5	4053.5	4142.6	4144.9	4138.2
45°	12819.9	6262.9	3710.5	3846.4	3940.0	3723.9	3744.0	3848.6	3973.4	4017.9	4017.9
47.5°	12706.3	5866.5	3570.2	3590.3	3735.0	3590.3	3574.7	3654.9	3801.9	3873.1	3888.7
50°	12456.8	5510.1	3409.9	3365.3	3405.4	3454.4	3467.8	3505.6	3668.2	3781.8	3808.5
52.5°	12111.6	5191.6	3205.0	3158.2	3158.2	3343.1	3405.4	3416.6	3554.6	3690.5	3717.2
55°	11824.3	4989.0	2993.4	2984.5	2975.6	3225.0	3331.9	3349.7	3445.5	3552.4	3565.8
57°	11844.4	4973.4	2830.8	2839.7	2837.5	3104.7	3262.9	3300.7	3349.7	3441.1	3456.6
57.5°	11855.5	4984.5	2795.2	2799.6	2797.4	3071.3	3242.8	3285.1	3323.0	3418.8	3434.4
60°	12022.5	5013.5	2650.4	2601.4	2612.5	2893.2	3129.2	3182.7	3207.2	3334.1	3354.2
62.5°	11775.3	4884.3	2534.6	2416.5	2416.5	2706.1	2971.1	3055.7	3093.6	3265.1	3298.5
65°	11058.1	4521.3	2398.7	2207.2	2229.4	2519.0	2781.8	2919.9	2977.8	3191.6	3227.2
67.5°	9951.2	4100.3	2253.9	2020.1	2042.4	2323.0	2585.8	2735.0	2826.3	3111.4	3140.4
70°	8510.2	3585.8	2058.0	1821.9	1848.6	2109.2	2354.2	2523.4	2659.3	3035.7	3044.6
72.5°	6274.1	2939.9	1784.0	1603.6	1632.6	1859.7	2120.3	2316.3	2498.9	2846.4	2841.9
75°	3730.6	2298.5	1481.1	1383.1	1403.1	1614.7	1908.7	2147.0	2421.0	2772.9	2815.2
77.5°	2262.9	1730.5	1207.2	1158.2	1182.7	1398.7	1757.3	2011.2	2387.6	2614.8	2601.4
80°	1367.5	1236.1	964.4	933.2	957.7	1196.0	1625.9	1908.7	2086.9	2233.9	2233.9
82.5°	714.9	755.0	708.3	683.8	717.2	971.1	1478.9	1666.0	1844.1	1583.6	1478.9
85°	291.8	394.2	429.9	427.6	447.7	672.6	1276.2	1425.4	1189.3	1129.2	1155.9
87.5°	98.0	167.0	209.4	180.4	189.3	423.2	884.2	688.2	817.4	570.2	541.2
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)