

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: P321282

Luminaire Tested: **GAN-SA8B-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36968 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

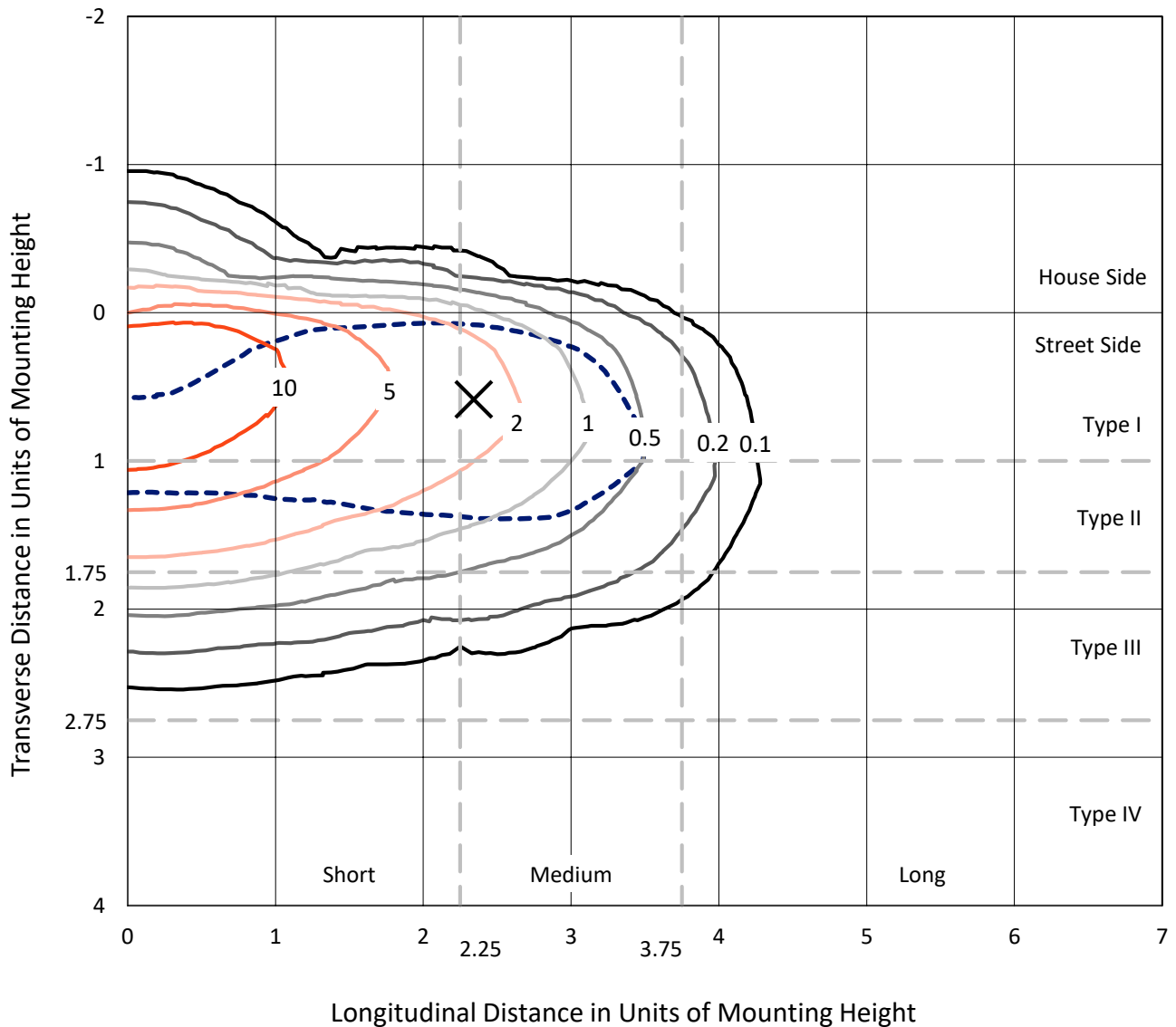
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

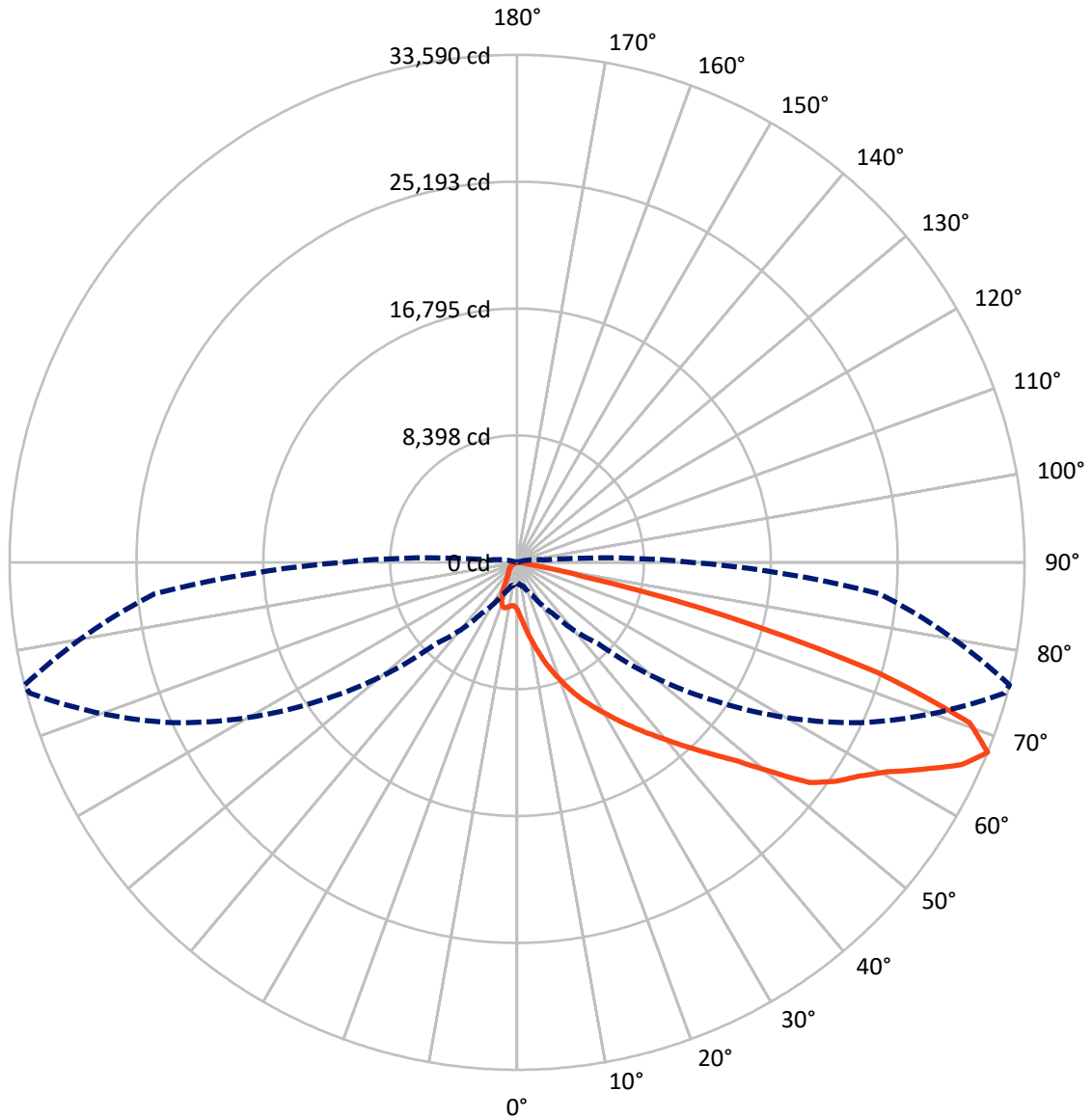
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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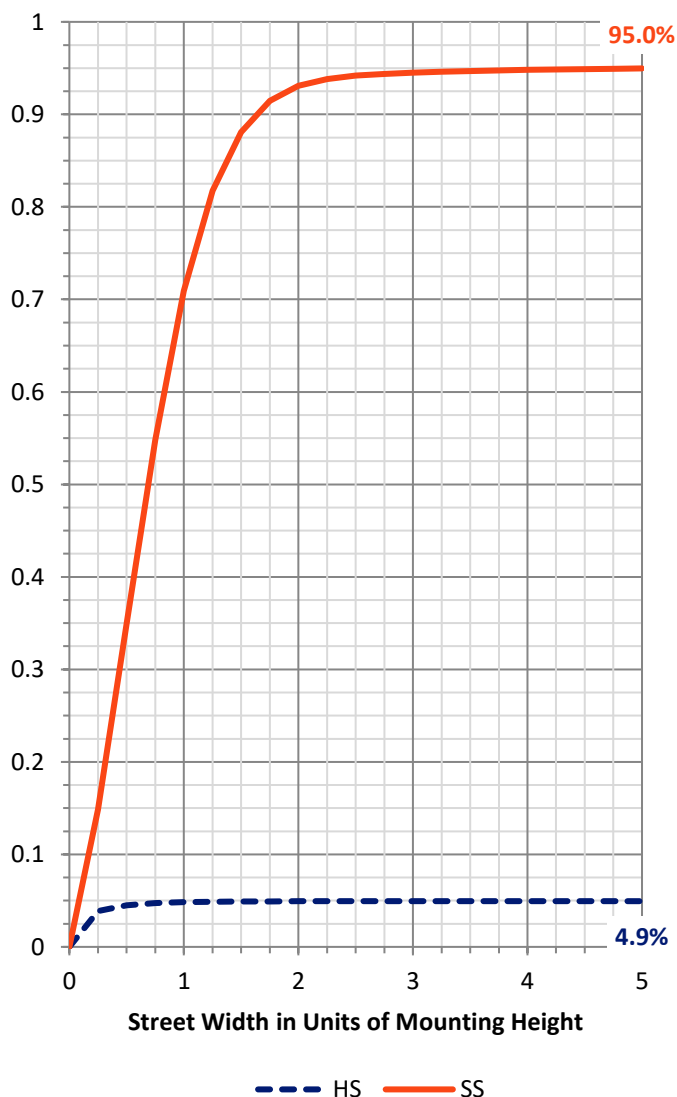
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1835.7	0.0	1835.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35132.3	0.0	35132.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	36968.0	0.0	36968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.9	1.1
10°-20°	1545.8	4.2
20°-30°	3145.2	8.5
30°-40°	5459.1	14.8
40°-50°	7713.0	20.9
50°-60°	8747.0	23.7
60°-70°	7254.8	19.6
70°-80°	2627.9	7.1
80°-90°	85.2	0.2
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°	36968.0	100.0
0°-180°	36968.0	100.0

Coefficient of Utilization

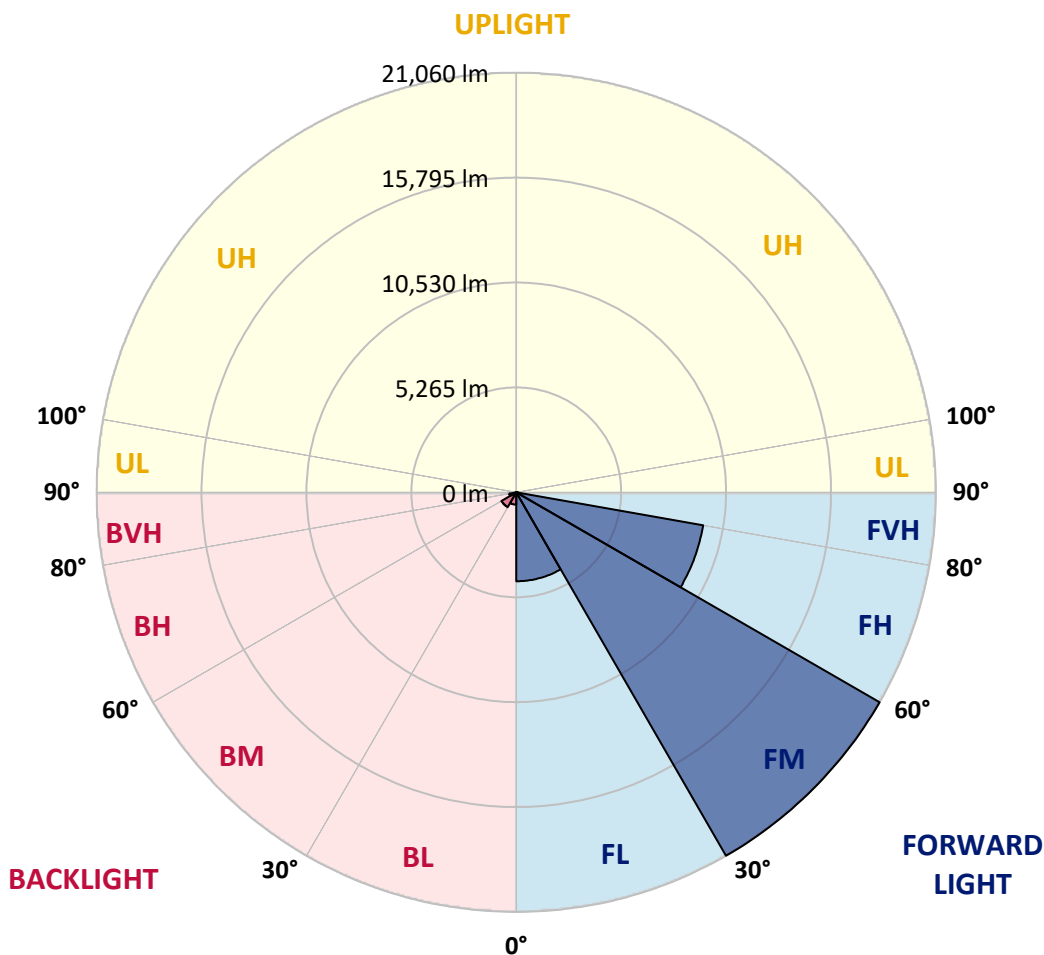


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4461.9	12.1			
FM (30°-60°)	21059.9	57.0			
FH (60°-80°)	9527.9	25.8			G4/12000
FVH (80°-90°)	82.5	0.2			G1/100
BL (0°-30°)	619.1	1.7	B2/1000		
BM (30°-60°)	859.2	2.3	B1/1000		
BH (60°-80°)	354.8	1.0	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0
2.5°	4681.3	4576.0	4600.3	4532.2	4409.1	4156.4	3941.0	3736.9	3498.8	3490.7	3294.7
5°	6312.4	6223.3	6212.0	6074.3	5850.8	5421.5	5003.6	4527.4	3996.1	3957.2	3540.9
7.5°	7792.9	7721.6	7695.7	7532.1	7115.8	6697.9	6153.7	5453.9	4622.9	4551.7	3873.0
10°	8930.0	8896.0	8902.5	8785.9	8429.5	8040.7	7326.4	6433.9	5334.0	5223.9	4271.4
12.5°	9791.8	9799.9	9858.2	9786.9	9587.7	9299.3	8536.4	7478.7	6121.3	5970.6	4726.6
15°	10425.1	10465.6	10572.5	10661.6	10647.0	10397.6	9697.8	8539.7	6957.1	6790.3	5233.6
17.5°	10834.9	10880.3	11035.8	11233.4	11414.8	11356.5	10818.7	9563.4	7802.6	7609.9	5776.3
20°	11194.5	11248.0	11414.8	11675.6	12014.1	12087.0	11733.9	10556.3	8646.6	8411.7	6336.7
22.5°	11973.7	11972.0	12074.1	12226.3	12548.7	12736.6	12513.1	11478.0	9480.8	9236.2	6908.5
25°	13382.9	13329.4	13293.8	13173.9	13245.2	13361.8	13237.1	12339.7	10319.8	10072.0	7488.4
27.5°	15057.8	15090.2	14801.8	14479.5	14230.1	14110.2	13906.1	13138.3	11126.5	10854.4	8055.3
30°	16825.0	16834.7	16494.6	16083.1	15534.0	15078.8	14725.7	13901.2	11955.8	11659.4	8606.1
32.5°	18418.9	18355.7	18018.8	17458.3	16765.1	16253.2	15519.4	14753.3	12833.8	12547.1	9218.4
35°	19682.3	19607.8	19198.0	18687.8	17968.6	17453.5	16570.7	15603.7	13757.1	13476.8	9832.3
37.5°	20605.6	20518.2	20097.0	19572.2	18951.8	18652.1	17790.4	16528.6	14764.6	14463.3	10478.6
40°	20926.4	20850.2	20586.2	20202.3	19703.4	19635.4	19084.6	17592.8	15861.2	15540.5	11210.7
42.5°	20735.2	20660.7	20566.8	20437.2	20229.8	20294.6	20306.0	18806.0	17079.3	16763.4	12019.0
45°	19977.1	19910.7	20007.9	20197.4	20455.0	20775.7	21420.4	20110.0	18439.9	18103.0	12953.6
47.5°	18861.1	18812.5	19081.4	19554.4	20307.6	21192.0	22439.3	21480.3	19967.4	19654.8	14119.9
50°	17273.7	17265.6	17803.4	18666.7	19824.9	21392.9	23492.1	23038.6	22089.4	21760.6	15741.3
52.5°	14801.8	14818.0	15875.8	17257.5	18977.7	21256.8	24169.2	25040.7	24558.0	24216.2	17145.7
55°	12448.3	12545.4	13295.4	15287.8	17678.6	20751.4	24402.5	25975.3	25920.2	25596.3	17926.5
57.5°	10143.3	10319.8	11042.3	12903.4	15781.8	19586.8	24274.5	26380.3	26934.2	26686.4	18956.7
60°	7645.5	7726.5	8559.1	10298.8	13347.3	17461.6	23346.4	26600.6	28320.8	28149.1	20451.8
62.5°	4864.3	5066.8	5805.4	7483.5	10392.7	14510.3	21781.6	26597.3	30055.6	30149.6	22380.9
65°	2562.5	2799.0	3191.0	4637.5	7141.8	11214.0	19428.0	26347.9	32184.1	32315.3	23889.0
67.5°	1381.7	1449.7	1657.1	2407.0	4141.9	7596.9	15969.7	25116.8	33416.7	33590.1	24099.6
70°	1010.8	1048.0	1125.8	1331.5	2084.7	4412.4	11652.9	22325.9	31827.7	31762.9	21412.3
72.5°	775.9	834.2	892.5	975.1	1198.7	2355.2	7255.1	17482.6	25395.4	24967.8	16005.4
75°	612.3	622.0	704.6	779.1	899.0	1341.2	3221.8	10182.1	15500.0	14487.6	8299.9
77.5°	489.2	495.7	544.3	609.0	722.4	881.2	997.8	4005.8	4948.5	4415.6	1801.2
80°	289.9	306.1	405.0	469.7	599.3	555.6	364.5	869.8	772.7	699.8	302.9
82.5°	162.0	174.9	228.4	370.9	417.9	265.6	181.4	234.9	181.4	176.6	85.9
85°	0.0	8.1	147.4	230.0	170.1	58.3	76.1	77.8	53.5	50.2	34.0
87.5°	0.0	0.0	45.4	43.7	6.5	9.7	17.8	25.9	21.1	21.1	17.8
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°	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0	3136.0
2.5°	3197.5	3110.0	2944.8	2782.8	2646.8	2535.0	2434.6	2394.1	2361.7	2356.8	2330.9
5°	3340.1	3163.5	2847.6	2588.5	2415.1	2292.0	2186.7	2122.0	2071.7	2052.3	2034.5
7.5°	3555.5	3288.2	2834.7	2536.6	2329.3	2122.0	1927.6	1717.0	1585.8	1535.6	1506.4
10°	3817.9	3453.4	2883.3	2522.0	2159.2	1721.9	1399.5	1132.2	1023.7	988.1	978.4
12.5°	4124.0	3659.2	2967.5	2431.3	1796.4	1223.0	965.4	874.7	850.4	839.1	839.1
15°	4475.5	3884.3	3027.4	2168.9	1328.2	924.9	835.8	793.7	767.8	753.2	754.8
17.5°	4835.1	4104.6	2998.3	1788.3	980.0	822.9	756.5	711.1	675.5	660.9	657.6
20°	5198.0	4308.7	2836.3	1331.5	829.3	746.7	672.2	622.0	586.4	571.8	568.6
22.5°	5573.8	4482.0	2551.2	976.7	745.1	662.5	589.6	539.4	505.4	492.4	485.9
25°	5939.9	4622.9	2152.7	790.5	665.7	583.1	513.5	466.5	435.7	422.8	421.2
27.5°	6281.6	4712.0	1691.1	698.1	596.1	511.9	448.7	406.6	380.7	370.9	369.3
30°	6589.4	4720.1	1250.5	630.1	534.5	450.3	392.0	354.7	332.1	322.3	319.1
32.5°	6900.4	4652.1	910.3	568.6	477.8	396.9	340.2	311.0	294.8	286.7	286.7
35°	7193.6	4495.0	709.5	515.1	422.8	345.0	299.7	278.6	268.9	260.8	260.8
37.5°	7480.3	4269.8	602.6	468.1	370.9	301.3	264.0	251.1	243.0	234.9	234.9
40°	7771.9	3986.4	547.5	424.4	328.8	267.3	234.9	223.5	215.4	209.0	207.3
42.5°	8129.8	3659.2	511.9	383.9	291.6	236.5	207.3	194.4	187.9	181.4	178.2
45°	8544.5	3377.3	482.7	343.4	260.8	210.6	179.8	166.8	157.1	149.0	147.4
47.5°	9142.2	3173.2	443.8	299.7	231.6	183.0	155.5	140.9	126.3	118.2	116.6
50°	9905.2	3004.8	393.6	260.8	202.5	155.5	129.6	111.8	98.8	90.7	90.7
52.5°	10284.2	2784.5	348.3	226.8	170.1	131.2	105.3	84.2	77.8	69.7	69.7
55°	10436.5	2616.0	302.9	192.8	140.9	108.5	82.6	64.8	59.9	55.1	53.5
57.5°	10864.1	2567.4	264.0	163.6	116.6	85.9	63.2	48.6	45.4	38.9	38.9
60°	11552.5	2591.7	228.4	139.3	93.9	66.4	47.0	37.3	34.0	27.5	27.5
62.5°	12296.0	2560.9	192.8	119.9	72.9	48.6	32.4	27.5	27.5	16.2	14.6
65°	12438.5	2280.7	165.2	98.8	56.7	35.6	21.1	17.8	24.3	3.2	0.0
67.5°	11544.4	1768.8	142.5	76.1	42.1	27.5	16.2	8.1	21.1	0.0	0.0
70°	9231.3	1124.1	115.0	55.1	32.4	22.7	13.0	3.2	16.2	0.0	0.0
72.5°	6527.8	652.8	90.7	38.9	27.5	17.8	9.7	0.0	9.7	0.0	0.0
75°	3301.2	348.3	56.7	29.2	21.1	13.0	6.5	0.0	1.6	0.0	0.0
77.5°	714.3	162.0	35.6	21.1	14.6	8.1	3.2	0.0	0.0	0.0	0.0
80°	155.5	71.3	22.7	13.0	8.1	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	56.7	37.3	11.3	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.8	19.4	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.2	6.5	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)