

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: McGRAW-EDISON

Report Number: P648338

Luminaire Tested: **GALN-SA3B-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 10648.8 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

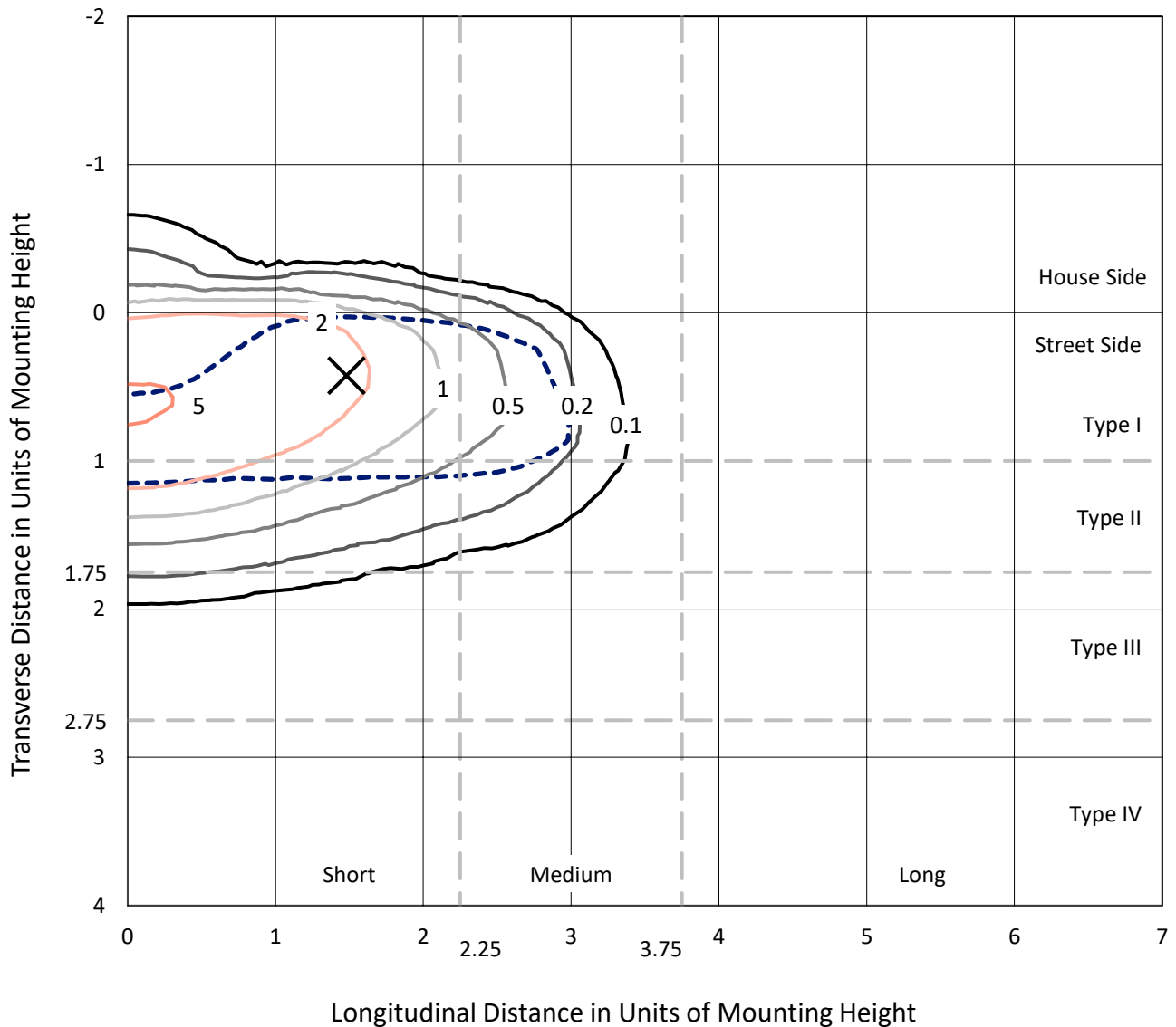
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

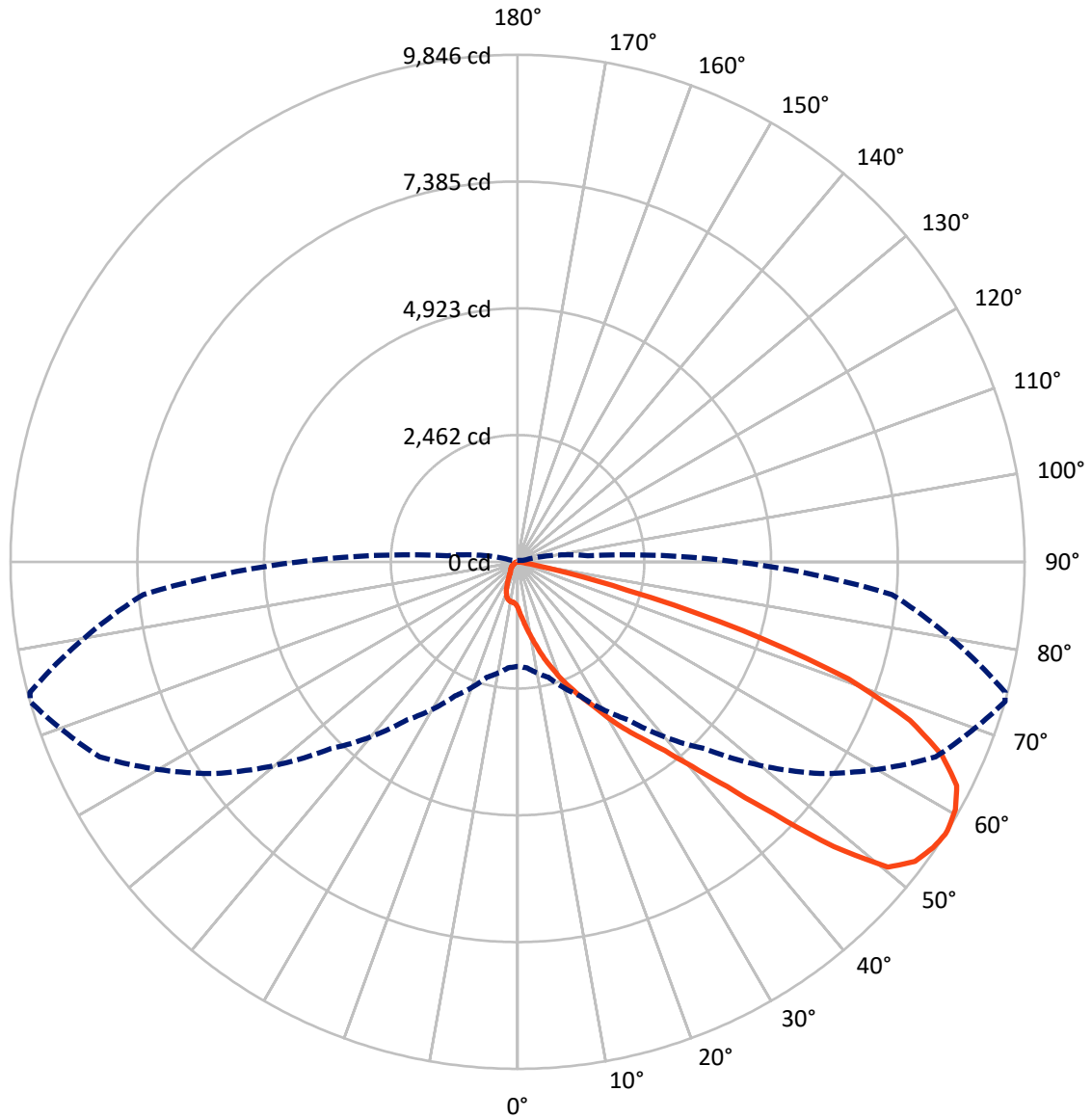
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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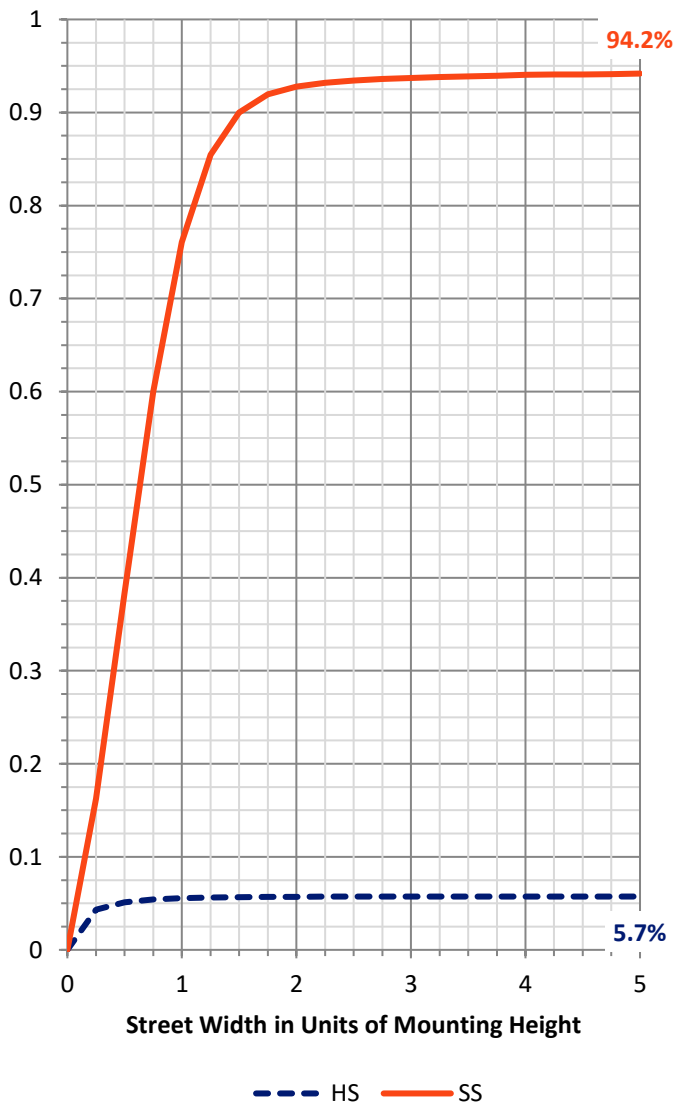
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	614.2	0.0	614.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	10034.6	0.0	10034.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	10648.8	0.0	10648.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.0
10°-20°	424.3	4.0
20°-30°	907.9	8.5
30°-40°	1668.7	15.7
40°-50°	2558.1	24.0
50°-60°	2706.1	25.4
60°-70°	1767.2	16.6
70°-80°	482.9	4.5
80°-90°	26.0	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°	10648.8	100.0
0°-180°	10648.8	100.0

Coefficient of Utilization



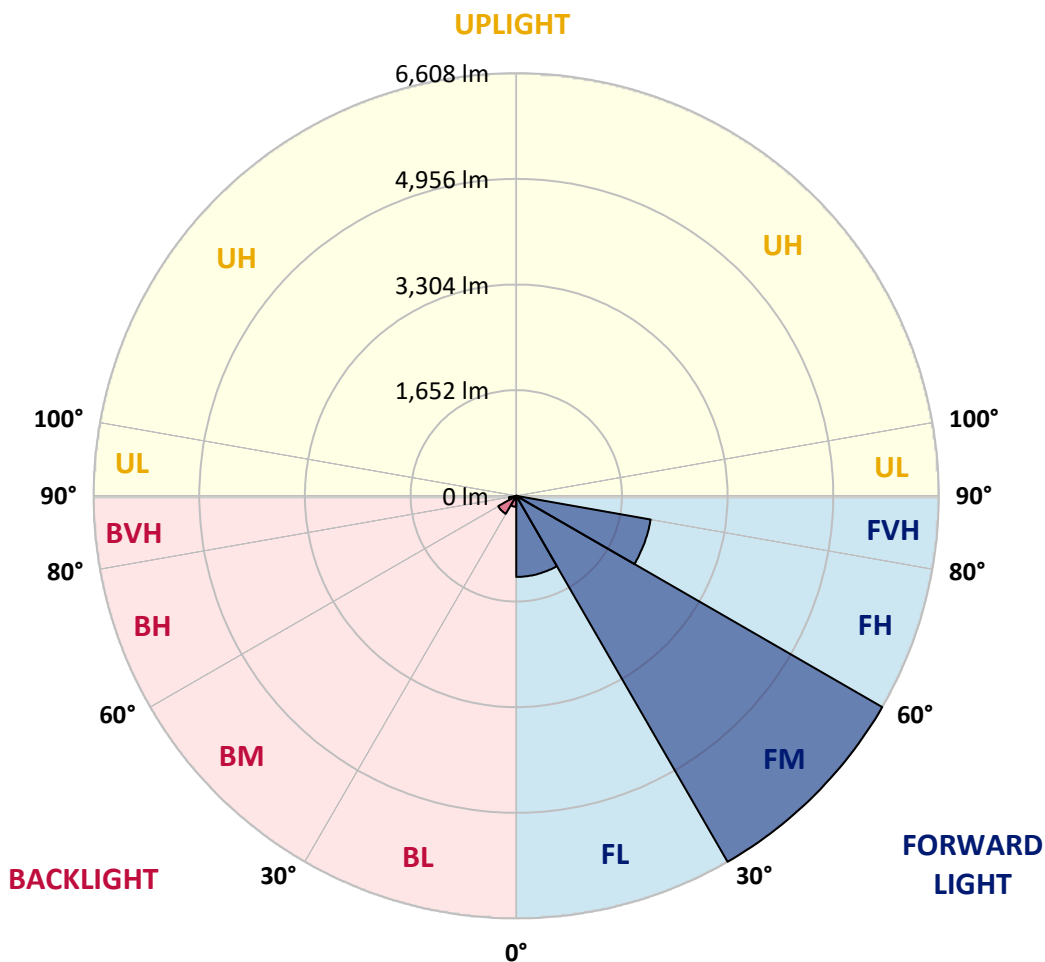
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1268.3	11.9			
FM (30°-60°)	6607.8	62.1			
FH (60°-80°)	2134.7	20.0			G2/5000
FVH (80°-90°)	23.9	0.2			G1/100
BL (0°-30°)	171.6	1.6	B1/500		
BM (30°-60°)	325.2	3.1	B1/1000		
BH (60°-80°)	115.3	1.1	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8
2.5°	1305.0	1293.3	1269.7	1261.6	1227.1	1173.4	1126.3	1063.2	1013.1	1008.0	947.7
5°	1747.7	1721.2	1710.2	1657.2	1574.1	1496.2	1362.3	1260.9	1144.0	1135.2	1013.9
7.5°	2174.1	2137.3	2126.2	2076.3	1979.2	1856.4	1682.9	1498.3	1313.1	1296.2	1102.9
10°	2482.8	2488.0	2468.2	2435.1	2356.4	2231.4	2017.5	1765.3	1501.3	1480.0	1202.8
12.5°	2704.2	2703.4	2707.1	2706.4	2664.5	2569.6	2344.6	2054.2	1708.7	1666.8	1317.6
15°	2848.2	2850.4	2861.5	2899.7	2904.1	2845.3	2657.8	2330.7	1949.0	1896.9	1441.7
17.5°	2993.8	3009.2	3026.9	3062.9	3095.3	3071.8	2939.4	2618.8	2166.7	2127.7	1574.8
20°	3234.3	3255.6	3245.3	3267.3	3284.2	3286.4	3184.2	2885.0	2430.7	2365.2	1727.1
22.5°	3618.8	3618.0	3591.5	3551.8	3518.8	3517.3	3424.7	3158.5	2670.3	2607.1	1880.0
25°	4104.7	4106.9	4055.5	3942.2	3859.9	3759.2	3652.6	3398.2	2926.9	2848.9	2041.0
27.5°	4662.1	4648.0	4570.1	4414.2	4251.1	4079.0	3925.3	3676.8	3198.9	3134.3	2225.5
30°	5162.7	5157.5	5066.4	4876.0	4661.3	4488.5	4265.8	4026.1	3551.1	3471.7	2432.1
32.5°	5628.8	5636.2	5509.7	5312.7	5105.4	4906.1	4670.8	4359.8	3896.7	3784.2	2657.1
35°	5992.8	6000.1	5869.3	5705.3	5492.1	5326.7	5102.4	4715.7	4237.8	4143.0	2915.9
37.5°	6186.9	6196.4	6120.7	5997.2	5864.1	5781.0	5572.2	5173.8	4652.5	4595.1	3221.7
40°	6223.7	6234.6	6201.6	6168.5	6161.1	6220.7	6159.7	5713.4	5227.4	5137.7	3677.6
42.5°	6113.4	6128.1	6142.8	6216.3	6366.3	6584.6	6797.1	6445.7	5967.8	5847.2	4234.9
45°	5823.7	5822.2	5880.3	6070.8	6406.7	6872.9	7463.2	7362.5	6976.5	6833.2	5022.3
47.5°	5328.2	5320.8	5446.5	5717.8	6241.3	6925.8	8006.6	8475.7	8263.9	8131.5	5868.5
50°	4573.1	4609.1	4806.8	5185.5	5830.3	6765.5	8174.2	9205.7	9320.4	9180.0	6552.3
52.5°	3688.6	3687.1	3997.4	4511.3	5221.5	6412.6	8057.3	9338.1	9663.7	9556.4	6889.0
55°	2729.9	2749.0	3071.8	3590.1	4431.2	5768.5	7675.7	9202.1	9794.6	9718.9	7111.0
57°	2030.7	2064.5	2323.3	2871.8	3743.0	5131.1	7167.7	8958.7	9846.1	9804.9	7295.6
57.5°	1895.4	1896.9	2149.0	2647.6	3541.6	4886.3	7022.1	8857.2	9844.6	9821.8	7325.7
60°	1166.8	1203.5	1377.8	1789.5	2592.4	3813.6	6046.5	8274.2	9768.2	9801.2	7454.4
62.5°	698.4	713.9	827.2	1078.6	1671.2	2783.6	4948.0	7527.9	9568.9	9669.7	7445.5
65°	449.2	452.9	504.3	652.9	1044.8	1881.4	3812.8	6542.0	9053.5	9238.8	7154.4
67.5°	347.0	352.9	373.5	428.6	605.8	1171.9	2696.8	5489.9	8219.8	8458.7	6448.6
70°	308.0	311.0	318.4	336.0	400.7	661.7	1677.8	4288.6	6816.2	6883.9	5046.6
72.5°	251.4	259.6	282.3	288.2	317.6	413.2	933.7	2878.4	4579.7	4596.6	2823.3
75°	194.8	196.3	230.1	247.0	267.6	284.5	416.9	1451.3	2199.8	2082.2	1088.1
77.5°	145.6	152.2	167.6	188.9	218.4	203.7	186.7	547.0	683.0	670.5	316.2
80°	93.4	97.0	116.9	141.9	169.8	133.1	105.2	160.3	150.0	154.4	75.7
82.5°	47.1	47.8	75.0	115.4	108.1	66.9	66.2	65.5	55.9	55.1	35.3
85°	5.2	11.0	48.5	66.2	48.5	22.1	30.9	30.1	29.4	30.1	20.6
87.5°	0.7	0.7	8.1	9.6	6.7	7.4	8.8	9.6	11.7	11.0	8.8
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°	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8	891.8
2.5°	918.3	888.9	834.4	782.3	743.3	718.3	686.0	674.2	657.3	655.1	647.0
5°	958.0	902.1	807.3	732.3	672.0	626.4	586.7	553.7	527.1	521.2	524.2
7.5°	1014.6	931.5	799.2	697.0	613.2	535.3	472.0	433.1	405.1	394.8	396.3
10°	1078.6	970.5	797.7	659.5	531.6	436.0	366.9	332.3	316.2	310.2	303.6
12.5°	1154.3	1015.3	794.0	601.4	441.8	347.7	298.5	277.9	262.5	258.1	258.1
15°	1239.6	1063.2	776.4	529.4	358.8	287.4	254.4	238.2	233.1	228.6	228.6
17.5°	1328.5	1110.2	739.6	440.4	297.8	246.3	225.7	216.2	208.8	203.7	203.7
20°	1430.0	1156.5	680.8	361.7	251.4	219.9	203.7	192.6	186.7	182.4	180.9
22.5°	1526.3	1194.0	605.8	297.0	219.1	197.8	183.1	171.3	165.4	163.3	163.3
25°	1626.3	1216.8	515.4	245.5	200.0	179.4	163.3	153.6	148.5	147.0	146.3
27.5°	1723.4	1230.0	436.0	214.7	182.4	162.5	147.0	139.7	134.5	133.1	133.8
30°	1841.0	1232.2	358.8	192.6	166.9	146.3	132.3	125.7	122.8	121.3	120.6
32.5°	1960.1	1229.3	301.5	179.4	152.2	132.3	120.6	115.4	113.2	111.0	111.0
35°	2093.9	1213.9	256.6	166.2	138.2	120.6	110.2	105.9	103.0	100.7	100.0
37.5°	2260.1	1205.7	230.8	151.4	125.7	109.5	100.0	95.6	93.4	90.4	89.7
40°	2521.8	1241.8	222.8	138.2	113.2	99.3	90.4	85.3	82.4	79.4	78.7
42.5°	2848.2	1305.0	209.5	125.0	102.2	89.7	80.9	75.0	69.8	66.2	64.7
45°	3271.0	1388.1	188.9	111.0	92.6	79.4	71.3	64.0	57.3	54.4	53.6
47.5°	3714.3	1468.2	170.5	100.0	82.4	70.5	61.8	53.6	47.8	45.6	44.9
50°	3986.3	1484.4	158.8	87.5	72.0	61.0	52.2	44.9	41.2	39.0	39.0
52.5°	4110.6	1458.7	142.7	76.5	62.5	53.6	44.9	39.0	36.7	35.3	34.5
55°	4197.3	1419.0	121.3	66.2	53.6	45.6	39.7	35.3	32.3	30.9	30.1
57°	4248.1	1365.3	105.2	58.1	46.4	39.7	35.3	31.6	28.7	25.8	25.8
57.5°	4250.3	1344.7	100.7	57.3	44.1	38.2	34.5	30.9	27.2	24.3	23.5
60°	4184.9	1203.5	80.9	48.5	35.3	32.3	28.7	24.3	19.1	16.2	15.4
62.5°	3974.6	1024.2	66.9	41.2	28.7	25.0	20.6	18.4	13.2	9.6	9.6
65°	3656.2	830.8	57.3	33.1	23.5	18.4	13.9	13.2	8.1	4.4	3.7
67.5°	3196.0	647.0	48.5	27.2	19.9	13.2	9.6	8.8	4.4	1.5	0.0
70°	2435.1	441.1	40.4	22.1	14.7	9.6	6.7	5.2	3.0	0.7	0.0
72.5°	1403.5	242.7	33.8	16.9	11.0	7.4	5.2	3.0	3.0	0.0	0.0
75°	501.4	104.4	25.8	12.5	8.8	5.9	3.7	1.5	2.2	0.7	0.0
77.5°	159.6	55.9	16.9	9.6	7.4	4.4	3.0	1.5	1.5	0.7	0.0
80°	47.1	29.4	10.3	8.1	5.2	3.7	2.2	0.7	1.5	0.7	0.0
82.5°	25.8	14.7	8.1	5.9	5.2	3.0	2.2	0.7	0.7	0.7	0.0
85°	13.2	8.8	6.7	5.9	5.2	3.0	2.2	0.7	0.0	0.7	0.7
87.5°	7.4	6.7	6.7	5.9	5.2	3.7	2.2	0.7	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)