

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: P648446

Luminaire Tested: **GALN-SA5B-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14756.4 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

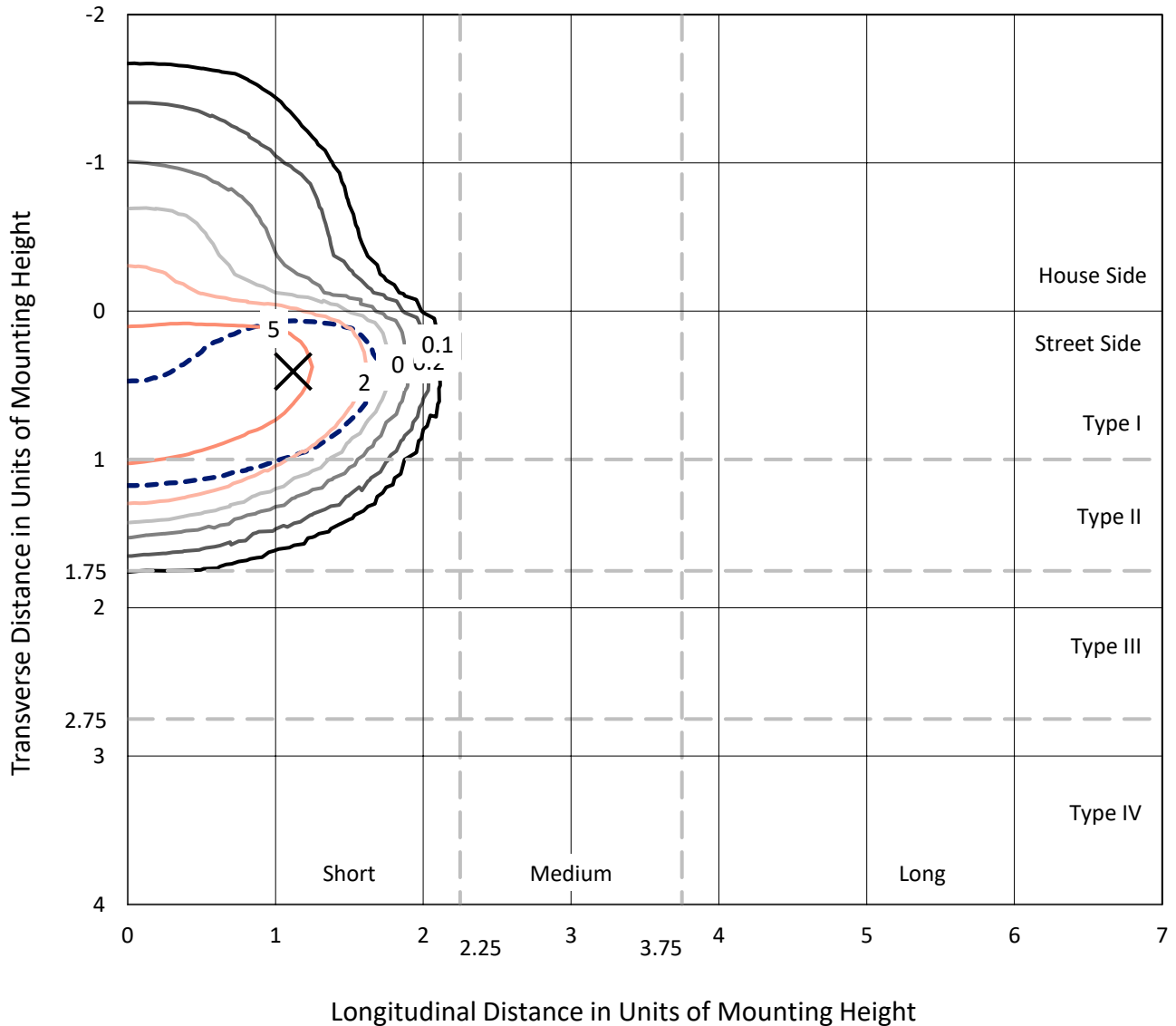
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

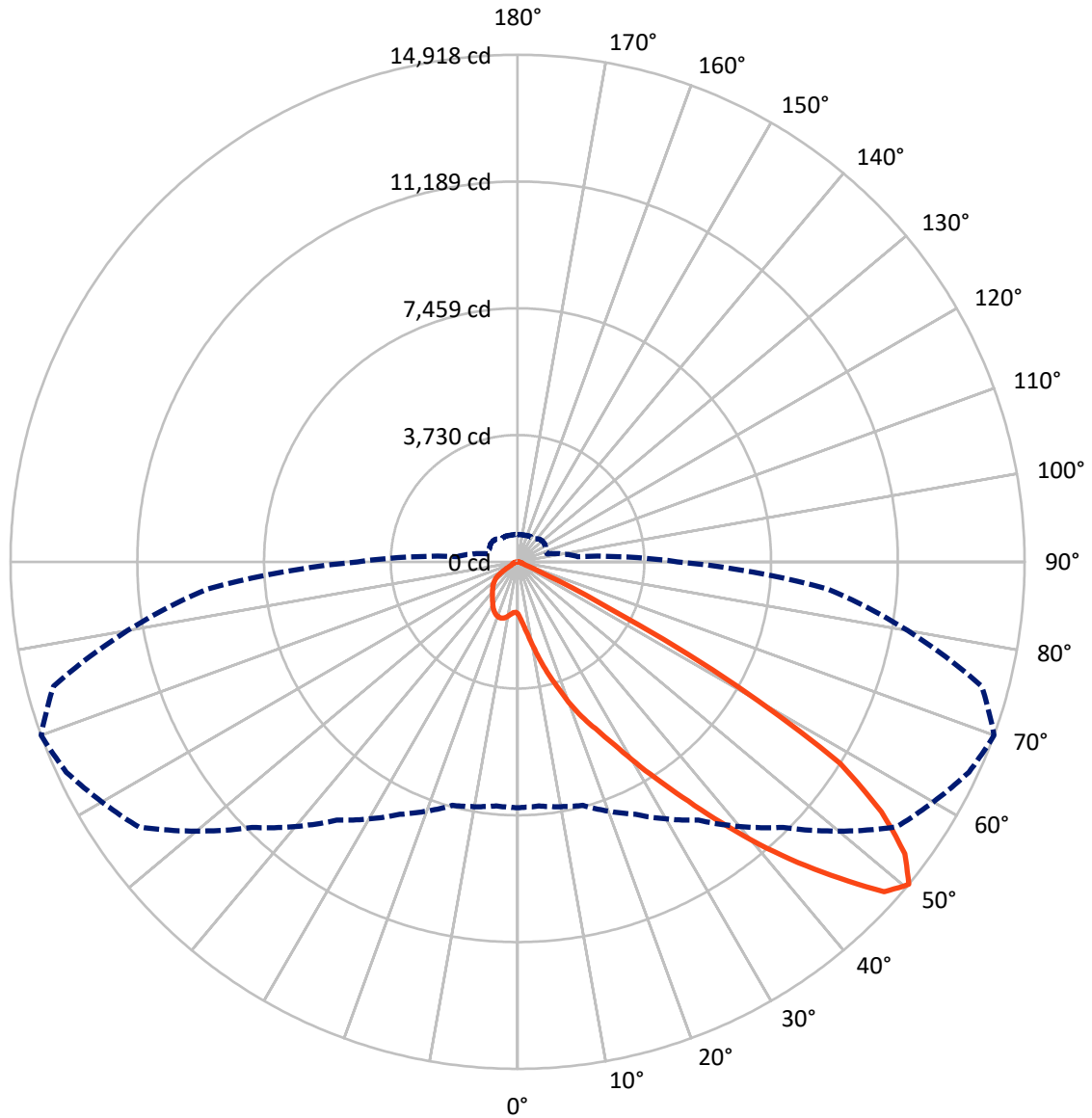
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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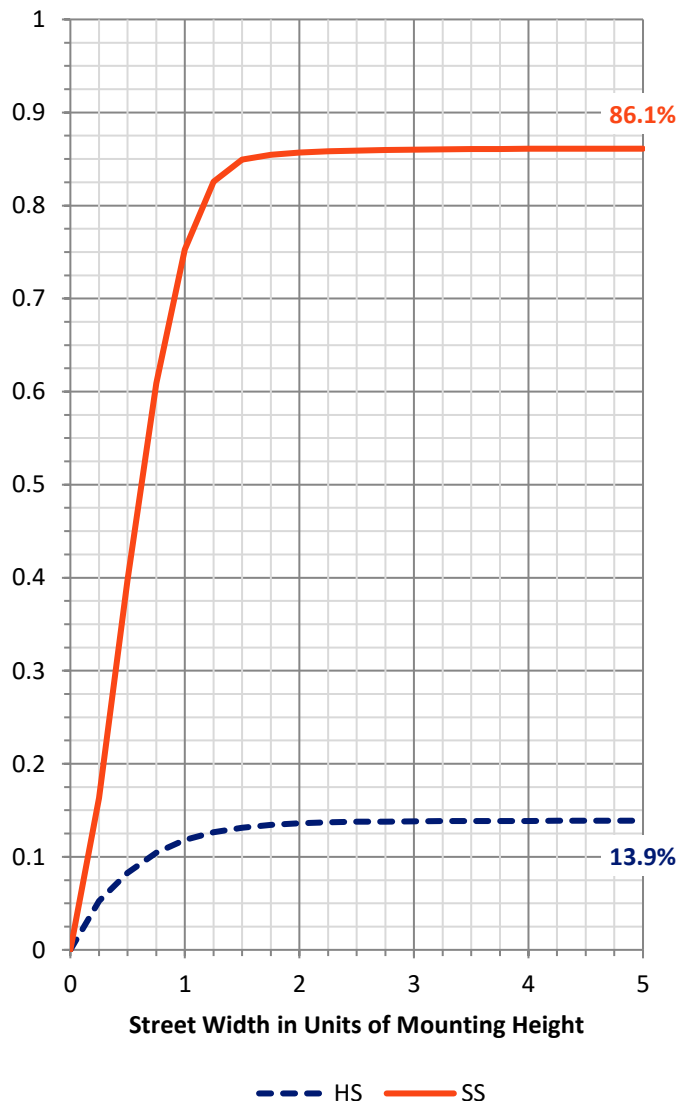
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2060.8	0.0	2060.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12695.6	0.0	12695.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	14756.4	0.0	14756.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	1.3
10°-20°	859.8	5.8
20°-30°	1803.6	12.2
30°-40°	3108.8	21.1
40°-50°	4543.5	30.8
50°-60°	3538.7	24.0
60°-70°	599.6	4.1
70°-80°	82.4	0.6
80°-90°	21.4	0.1
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°	14756.4	100.0
0°-180°	14756.4	100.0

Coefficient of Utilization



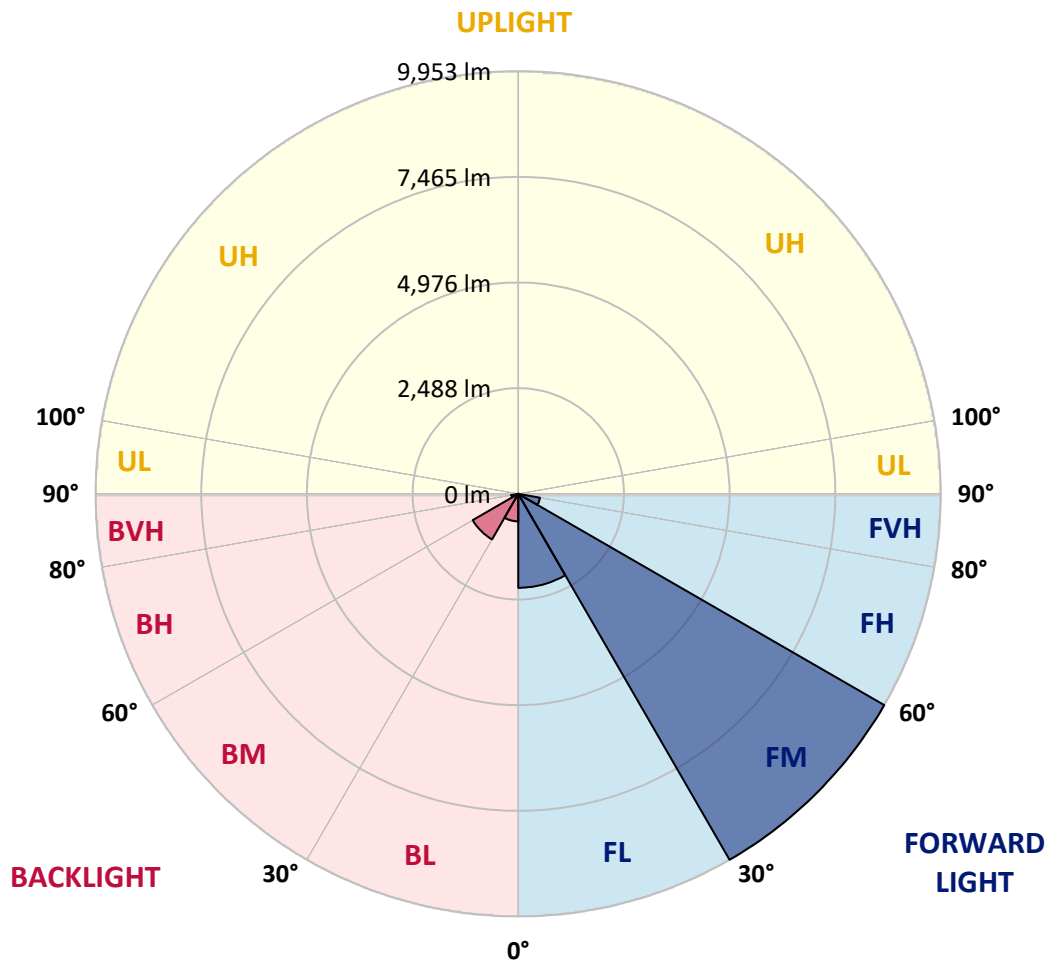
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2213.6	15.0			
FM (30°-60°)	9953.0	67.4			
FH (60°-80°)	519.1	3.5			G0/660
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	648.5	4.4	B2/1000		
BM (30°-60°)	1238.1	8.4	B2/2500		
BH (60°-80°)	162.8	1.1	B1/500		G1/500
BVH (80°-90°)	11.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5
2.5°	2001.6	1987.0	1955.5	1897.3	1873.0	1814.8	1780.8	1715.3	1674.1	1627.9	1577.0
5°	2819.2	2743.9	2697.9	2632.4	2440.7	2321.8	2125.3	1957.9	1880.3	1795.3	1678.9
7.5°	3663.5	3615.0	3551.8	3411.1	3280.1	3032.7	2695.5	2326.7	2169.0	2023.4	1792.9
10°	4362.2	4226.3	4219.0	4114.7	3971.6	3675.6	3270.4	2811.9	2530.5	2317.0	1955.5
12.5°	4849.9	4726.1	4781.9	4769.8	4636.4	4364.7	3896.4	3289.9	2996.3	2663.9	2122.9
15°	5293.9	5242.9	5225.9	5211.3	5158.0	4956.6	4536.9	3872.2	3447.5	3047.3	2312.1
17.5°	5728.1	5597.1	5660.2	5672.4	5667.5	5485.5	5092.5	4425.3	3925.5	3452.4	2511.1
20°	6113.9	6126.0	6041.1	6024.2	6009.6	6002.3	5619.0	4973.6	4512.7	3877.0	2770.6
22.5°	6608.8	6523.9	6599.1	6550.6	6456.0	6397.7	6104.2	5458.8	5022.2	4388.9	3035.1
25°	7193.5	7261.5	7084.3	7064.9	6960.6	6759.2	6494.8	6002.3	5512.2	4864.5	3321.4
27.5°	7914.1	7795.2	7749.1	7642.4	7453.1	7368.2	7057.6	6562.7	6104.2	5364.3	3598.0
30°	8532.7	8501.3	8270.8	8144.6	7979.6	7977.2	7542.9	7322.1	6875.7	6147.9	3978.9
32.5°	9037.4	8899.1	8814.2	8726.8	8593.4	8629.8	8263.5	8147.0	7698.1	6875.7	4427.7
35°	9374.6	9275.2	9224.2	9090.8	9051.9	9214.5	9061.7	9013.1	8644.4	7899.5	4954.2
37.5°	9481.4	9512.9	9503.2	9335.8	9418.3	9857.4	10054.0	9927.8	9733.7	8979.2	5524.4
40°	9576.0	9597.9	9549.3	9745.8	9981.2	10481.0	11191.8	10983.1	10910.4	10073.4	6317.7
42.5°	9629.4	9612.4	9612.4	9952.1	10308.7	11313.1	12290.9	12152.6	12096.8	11237.9	7234.8
45°	9398.9	9233.9	9411.0	9872.0	10590.2	11723.2	13169.1	13360.8	13280.8	12623.3	8307.2
47.5°	8537.6	8639.5	8739.0	9355.2	10248.1	11597.0	13707.7	14360.4	14508.4	13787.8	9010.7
50°	7234.8	7212.9	7419.2	8195.5	9280.0	11053.5	13603.5	14649.1	14918.4	14137.1	9158.8
52.5°	5262.3	5422.4	5645.7	6417.2	7703.0	9646.4	12256.9	13904.3	14263.4	13707.7	9061.7
55°	3064.2	2887.2	3389.3	4042.0	5255.0	7276.0	10362.1	12324.8	12989.6	12926.5	8571.6
57.5°	1227.7	1188.8	1361.1	1834.2	2741.5	4510.2	7535.6	10126.8	11191.8	11839.6	7533.2
60°	538.6	526.5	618.6	747.2	1120.9	2079.2	4122.0	6298.3	7409.5	8273.2	5184.7
62.5°	388.2	383.4	429.4	475.5	591.9	905.0	1732.3	2537.8	3163.7	3821.2	2321.8
65°	313.0	325.1	356.7	380.9	436.7	502.2	611.4	706.0	866.2	897.7	511.9
67.5°	254.7	264.4	293.5	320.2	330.0	271.7	281.4	247.5	247.5	220.8	177.1
70°	186.8	189.3	223.2	254.7	203.8	109.2	191.7	191.7	172.3	165.0	150.4
72.5°	138.3	140.7	167.4	157.7	80.1	68.0	140.7	155.3	140.7	133.4	121.3
75°	101.9	104.3	87.3	36.4	34.0	43.7	82.5	106.7	101.9	99.4	92.2
77.5°	19.4	14.6	12.1	17.0	24.3	36.4	53.4	65.5	68.0	72.8	68.0
80°	2.4	2.4	7.3	14.6	26.7	38.8	55.8	63.1	65.5	68.0	63.1
82.5°	0.0	2.4	7.3	14.6	26.7	36.4	48.5	55.8	60.7	63.1	60.7
85°	0.0	2.4	4.9	12.1	21.8	26.7	24.3	17.0	14.6	17.0	12.1
87.5°	0.0	0.0	2.4	2.4	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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°	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5	1528.5
2.5°	1547.9	1538.2	1504.2	1467.8	1436.3	1450.8	1436.3	1424.1	1429.0	1424.1	1419.3
5°	1632.8	1589.1	1516.4	1484.8	1458.1	1455.7	1448.4	1446.0	1448.4	1448.4	1426.5
7.5°	1712.9	1642.5	1564.9	1530.9	1499.4	1501.8	1484.8	1484.8	1482.4	1470.2	1465.4
10°	1834.2	1739.5	1640.1	1579.4	1540.6	1533.3	1516.4	1499.4	1499.4	1499.4	1475.1
12.5°	1967.6	1848.7	1712.9	1642.5	1596.4	1560.0	1533.3	1528.5	1501.8	1496.9	1484.8
15°	2084.0	1933.6	1761.4	1664.3	1606.1	1557.6	1516.4	1489.7	1477.5	1470.2	1460.5
17.5°	2198.1	2006.4	1788.1	1664.3	1601.2	1545.5	1501.8	1477.5	1448.4	1453.2	1433.8
20°	2351.0	2084.0	1795.3	1632.8	1555.2	1501.8	1443.5	1431.4	1414.4	1399.9	1404.7
22.5°	2498.9	2139.9	1773.5	1594.0	1482.4	1419.3	1390.2	1375.7	1368.4	1356.2	1339.2
25°	2632.4	2200.5	1739.5	1523.6	1404.7	1358.7	1332.0	1329.5	1312.5	1312.5	1281.0
27.5°	2768.2	2222.4	1681.3	1441.1	1336.8	1310.1	1298.0	1293.1	1285.8	1268.9	1247.0
30°	2923.5	2229.6	1596.4	1356.2	1276.1	1247.0	1264.0	1276.1	1244.6	1213.1	1222.8
32.5°	3052.1	2212.7	1494.5	1276.1	1232.5	1218.0	1251.9	1264.0	1227.7	1193.7	1176.7
35°	3207.4	2171.4	1395.1	1213.1	1188.8	1218.0	1247.0	1247.0	1174.3	1133.0	1123.3
37.5°	3442.7	2125.3	1302.8	1159.7	1142.7	1203.4	1242.2	1215.5	1101.4	1050.6	1038.4
40°	3695.1	2096.2	1213.1	1106.3	1118.4	1179.1	1201.0	1118.4	1002.0	970.5	960.7
42.5°	4061.3	2038.0	1133.0	1060.3	1096.6	1145.1	1145.1	997.2	953.5	936.5	934.0
45°	4517.5	1996.7	1062.7	1021.4	1065.1	1077.2	1038.4	934.0	902.6	897.7	900.1
47.5°	4740.7	1916.6	989.9	975.3	1006.9	1009.3	907.4	883.1	856.4	849.2	844.3
50°	4706.8	1773.5	895.3	914.6	958.3	934.0	827.3	832.2	807.9	805.5	793.3
52.5°	4469.0	1547.9	800.6	846.7	895.3	824.9	761.8	756.9	756.9	725.4	713.3
55°	3961.9	1247.0	686.6	744.8	803.0	693.9	676.9	672.0	659.9	630.8	623.5
57.5°	3137.0	914.6	516.8	579.8	681.8	589.5	587.1	565.3	533.8	511.9	511.9
60°	1865.7	526.5	325.1	354.2	451.2	477.9	531.3	521.6	468.2	434.3	424.5
62.5°	851.6	271.7	206.2	211.1	242.7	310.5	417.3	482.8	407.6	349.4	344.5
65°	286.3	201.4	169.8	162.6	167.4	186.8	249.9	342.1	325.1	269.3	259.6
67.5°	174.7	179.5	160.1	148.0	148.0	145.6	143.1	155.3	191.7	186.8	189.3
70°	150.4	165.0	148.0	133.4	128.6	121.3	101.9	84.9	72.8	84.9	89.7
72.5°	121.3	131.0	126.1	114.0	101.9	92.2	72.8	55.8	41.3	36.4	36.4
75°	89.7	97.0	101.9	87.3	77.7	65.5	53.4	36.4	21.8	14.6	14.6
77.5°	65.5	72.8	75.2	68.0	58.3	46.1	34.0	24.3	12.1	4.9	4.9
80°	55.8	65.5	72.8	68.0	60.7	43.7	31.6	17.0	9.7	2.4	2.4
82.5°	53.4	65.5	72.8	65.5	58.3	41.3	31.6	19.4	7.3	2.4	2.4
85°	12.1	17.0	21.8	26.7	31.6	31.6	24.3	14.6	7.3	2.4	2.4
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	2.4	2.4	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)