

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: P648289

Luminaire Tested: **GALN-SA2B-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5448.9 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

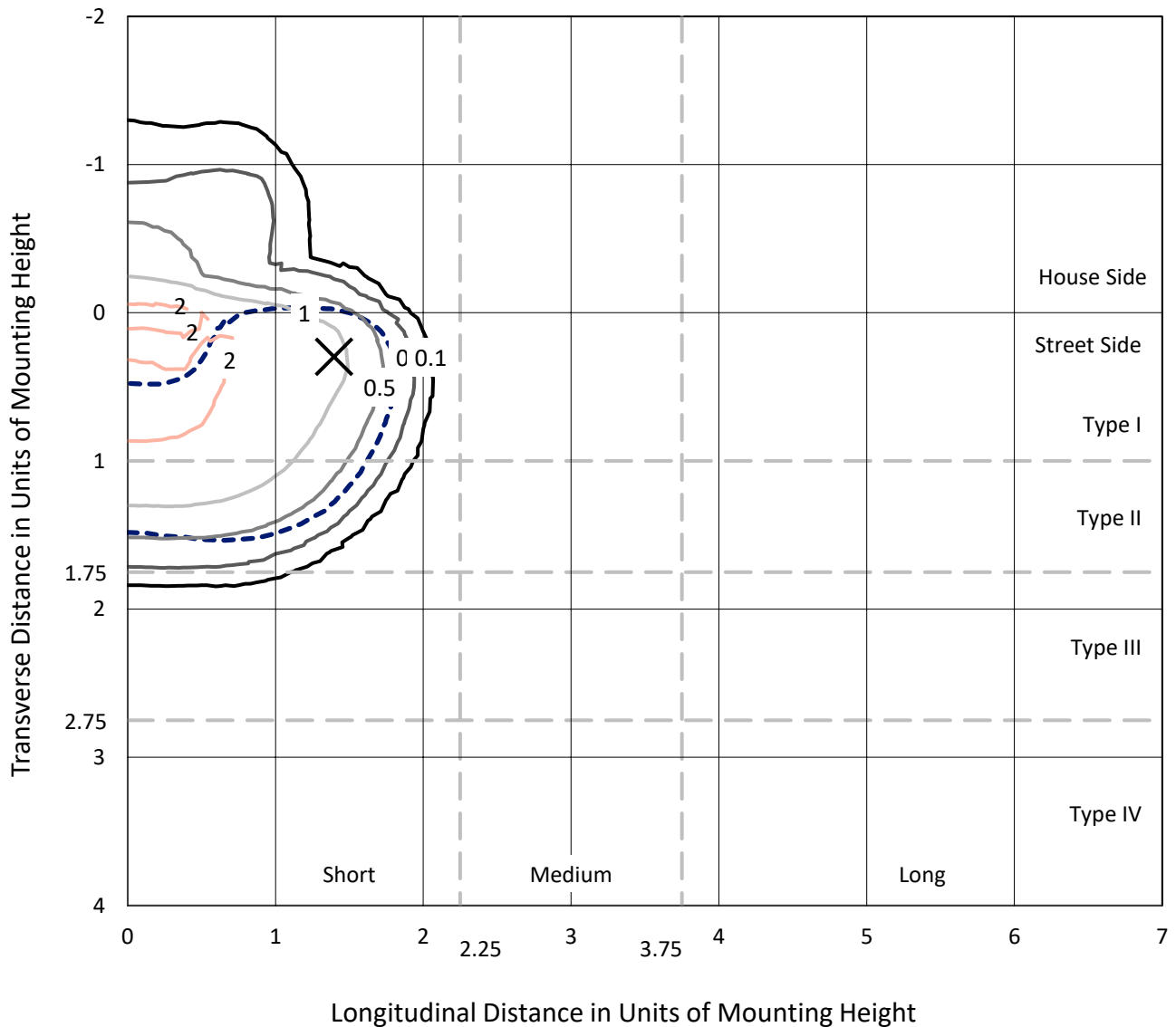
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

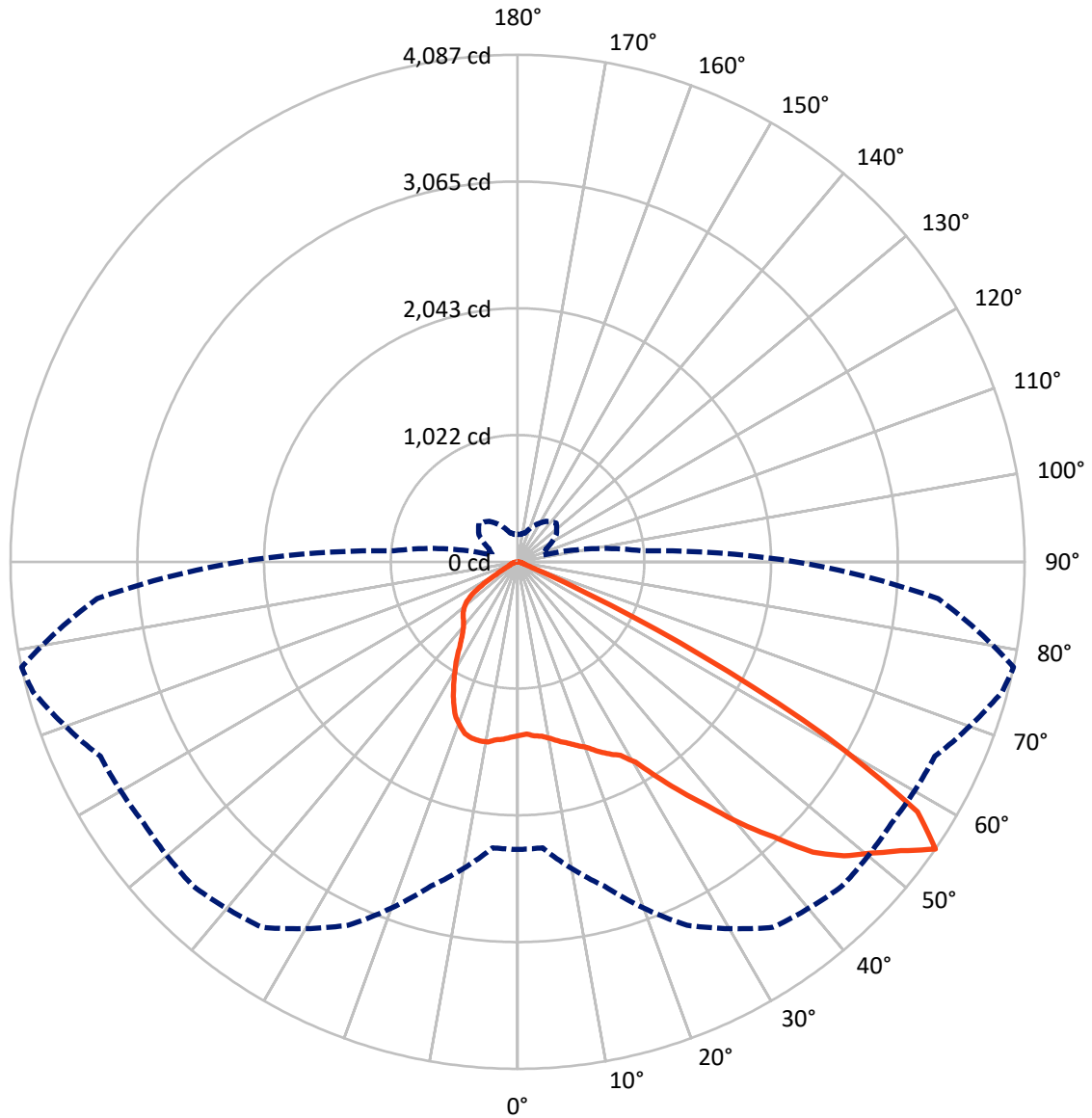
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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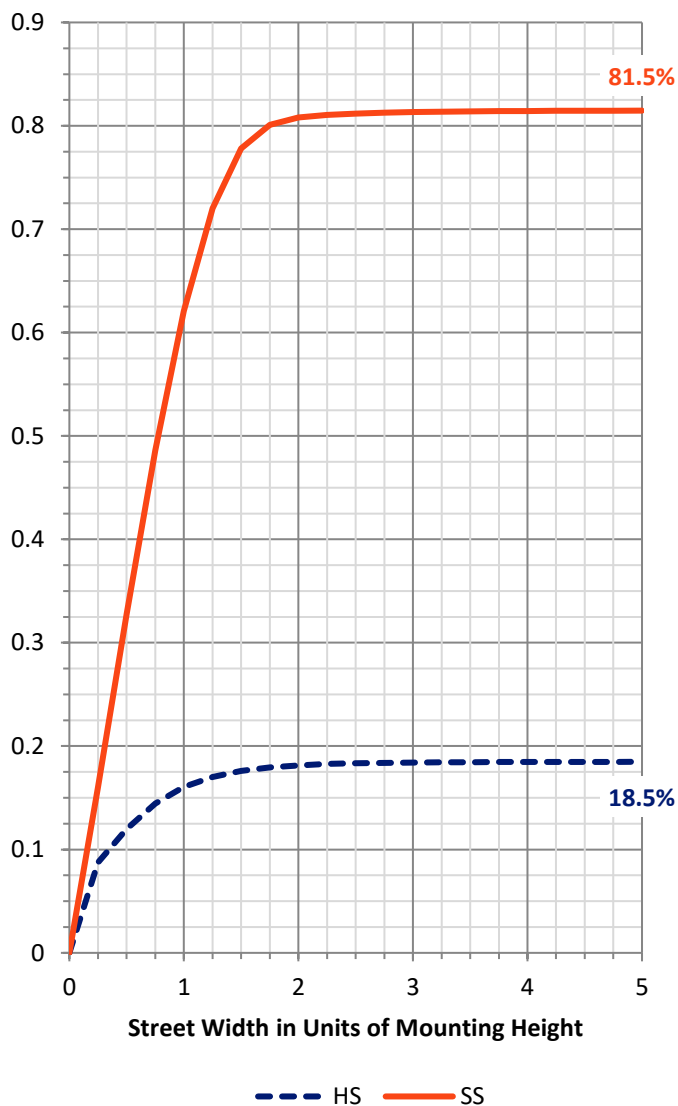
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1012.1	0.0	1012.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4436.8	0.0	4436.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	5448.9	0.0	5448.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	2.3
10°-20°	330.6	6.1
20°-30°	579.5	10.6
30°-40°	955.5	17.5
40°-50°	1390.3	25.5
50°-60°	1575.4	28.9
60°-70°	450.4	8.3
70°-80°	35.0	0.6
80°-90°	7.3	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°	5448.9	100.0
0°-180°	5448.9	100.0

Coefficient of Utilization

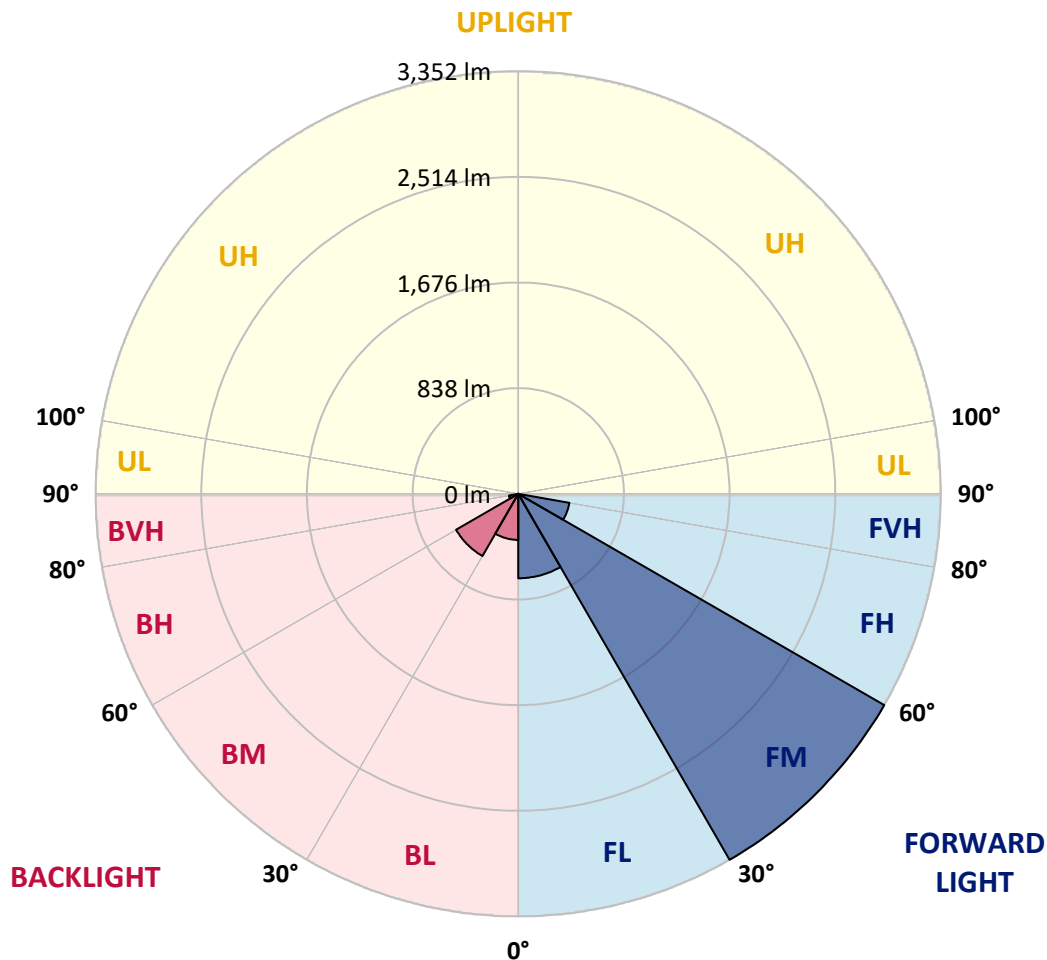


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.8	12.3			
FM (30°-60°)	3351.9	61.5			
FH (60°-80°)	411.5	7.6			G0/660
FVH (80°-90°)	3.5	0.1			G0/10
BL (0°-30°)	365.2	6.7	B1/500		
BM (30°-60°)	569.3	10.4	B1/1000		
BH (60°-80°)	73.9	1.4	B0/110		G0/110
BVH (80°-90°)	3.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9
2.5°	1317.2	1329.8	1331.7	1347.3	1346.4	1372.7	1380.4	1381.4	1399.0	1390.2	1412.6
5°	1280.1	1273.3	1270.3	1297.7	1305.4	1328.8	1348.3	1360.0	1396.0	1408.7	1432.1
7.5°	1247.0	1247.0	1249.0	1273.3	1270.3	1300.6	1321.0	1357.1	1409.7	1420.4	1448.6
10°	1214.8	1203.2	1217.8	1243.1	1264.5	1278.2	1321.0	1355.1	1416.5	1447.7	1486.7
12.5°	1198.3	1204.1	1206.1	1224.6	1247.9	1288.9	1312.2	1368.8	1465.2	1483.7	1525.6
15°	1302.5	1290.9	1262.6	1246.0	1265.5	1285.0	1343.5	1400.9	1490.5	1516.8	1563.6
17.5°	1423.3	1413.5	1390.2	1345.4	1301.6	1337.6	1383.4	1436.0	1517.8	1556.8	1626.0
20°	1581.1	1565.5	1542.2	1454.5	1416.5	1377.5	1426.2	1488.6	1562.6	1597.7	1668.8
22.5°	1769.2	1769.2	1716.6	1610.4	1531.5	1494.4	1514.9	1551.0	1612.4	1660.0	1730.2
25°	1965.0	1959.1	1911.4	1801.3	1667.9	1624.0	1647.4	1672.7	1689.2	1715.6	1762.4
27.5°	2189.0	2155.0	2094.5	1972.8	1854.9	1770.1	1795.5	1773.0	1752.6	1766.2	1833.5
30°	2341.0	2362.5	2285.5	2168.6	2057.6	1963.1	1967.9	1948.4	1854.9	1874.3	1914.4
32.5°	2498.9	2512.5	2469.7	2405.3	2294.3	2184.2	2144.2	2127.6	2057.6	2066.3	2027.3
35°	2630.3	2656.6	2618.7	2590.4	2558.3	2469.7	2359.6	2413.1	2300.1	2278.7	2177.4
37.5°	2751.1	2743.4	2788.2	2759.0	2752.2	2689.8	2569.0	2579.7	2503.7	2498.9	2382.0
40°	2859.3	2861.2	2922.6	2936.2	2909.0	2797.9	2622.6	2707.3	2768.7	2774.6	2624.5
42.5°	2948.9	2975.2	3027.9	3138.0	3097.0	2911.9	2678.1	2770.6	2998.7	3034.7	2854.4
45°	3026.8	3080.5	3145.7	3244.1	3220.7	3073.7	2816.5	2901.2	3244.1	3338.6	3070.7
47.5°	3031.8	3101.9	3173.0	3319.1	3348.3	3160.3	2959.7	3107.7	3438.9	3541.3	3228.5
50°	3012.3	3049.3	3191.5	3350.3	3416.5	3301.6	3160.3	3281.2	3628.0	3692.2	3308.4
52.5°	2781.4	2809.6	3095.0	3379.5	3539.3	3461.4	3426.3	3522.7	3820.9	3868.6	3383.4
55°	2318.6	2313.8	2706.4	3232.5	3595.8	3698.1	3676.7	3710.8	4044.0	4086.8	3402.0
57.5°	1586.0	1674.7	2013.7	2691.7	3250.0	3642.6	3665.0	3608.5	3783.8	3800.4	2965.5
60°	855.3	892.4	1165.2	1796.4	2474.5	2968.4	3026.8	2924.6	2911.0	2864.2	2117.0
62.5°	340.0	358.5	513.4	889.5	1348.3	1804.3	1929.9	1888.0	1798.4	1675.6	1096.0
65°	161.7	173.4	255.3	416.0	598.1	752.1	877.7	916.7	676.1	608.9	361.4
67.5°	110.1	118.9	186.0	237.7	213.4	223.1	290.3	269.8	158.8	135.4	100.4
70°	83.8	89.7	149.1	161.7	95.4	67.2	75.0	70.2	65.3	66.2	65.3
72.5°	59.4	64.3	109.2	95.4	41.9	31.2	39.9	47.8	47.8	47.8	46.7
75°	36.0	41.0	63.3	37.0	16.6	16.6	25.3	32.2	34.1	35.1	33.1
77.5°	18.5	23.4	21.5	10.7	10.7	12.7	18.5	22.4	24.4	24.4	23.4
80°	3.9	3.9	3.9	5.9	10.7	13.6	18.5	20.4	23.4	23.4	21.5
82.5°	0.0	0.9	2.9	5.9	9.7	12.7	17.5	20.4	23.4	24.4	22.4
85°	0.0	0.9	2.0	3.9	6.8	7.8	6.8	5.9	5.9	5.9	5.9
87.5°	0.0	0.0	0.9	0.9	0.9	2.0	2.0	2.0	2.0	2.0	2.0
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°	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9
2.5°	1414.6	1417.5	1412.6	1411.6	1407.8	1419.4	1391.2	1384.3	1401.9	1385.4	1389.2
5°	1433.0	1439.9	1431.1	1416.5	1395.1	1362.0	1333.7	1296.6	1279.1	1266.5	1264.5
7.5°	1446.7	1451.6	1442.8	1396.0	1331.7	1247.9	1185.6	1139.8	1103.8	1093.1	1075.5
10°	1502.3	1503.2	1459.4	1356.1	1230.4	1120.3	1024.9	954.7	918.7	896.3	886.5
12.5°	1539.2	1537.3	1448.6	1277.2	1109.6	963.5	854.4	769.6	736.5	725.8	719.0
15°	1586.0	1575.3	1423.3	1196.3	953.8	795.9	697.5	639.1	636.2	629.4	636.2
17.5°	1623.0	1592.9	1386.3	1049.2	804.7	655.6	591.3	595.2	603.1	609.9	610.8
20°	1683.4	1621.1	1301.6	920.7	666.3	562.1	561.2	578.7	598.1	606.0	613.7
22.5°	1729.3	1632.8	1210.9	783.2	553.3	524.1	540.7	567.0	581.6	589.4	601.1
25°	1745.8	1600.6	1090.2	645.9	498.8	506.6	531.9	549.4	568.0	576.8	571.8
27.5°	1762.4	1584.1	945.9	531.9	469.6	494.9	516.3	533.8	539.7	551.4	559.2
30°	1802.3	1526.6	816.4	459.9	454.9	487.1	502.7	508.6	524.1	531.0	531.0
32.5°	1834.4	1504.1	679.0	425.7	453.0	491.0	493.0	493.0	494.9	490.0	488.0
35°	1900.7	1427.3	556.2	405.3	452.0	492.0	496.8	480.3	435.5	418.0	413.0
37.5°	1982.6	1377.5	465.7	400.4	458.8	503.7	511.5	449.1	390.6	362.4	357.5
40°	2081.9	1342.5	406.2	398.5	474.4	531.0	507.5	424.8	348.7	307.9	305.9
42.5°	2197.8	1310.4	366.3	397.5	493.9	559.2	503.7	404.3	305.9	278.6	282.5
45°	2290.4	1292.8	339.0	390.6	500.7	575.7	506.6	368.2	288.4	270.8	272.8
47.5°	2362.5	1255.8	316.6	379.0	499.8	581.6	480.3	353.6	279.6	284.5	289.3
50°	2364.4	1206.1	288.4	353.6	485.1	570.9	450.1	340.0	277.7	298.1	307.9
52.5°	2338.1	1135.9	258.2	317.6	451.1	533.8	422.8	334.2	268.9	266.9	278.6
55°	2244.5	1004.4	207.5	257.2	380.9	440.4	398.5	323.5	242.6	220.2	222.1
57.5°	1814.0	720.0	152.9	184.2	269.8	322.4	359.5	318.6	218.2	187.1	188.0
60°	1123.3	408.2	112.0	125.7	166.6	195.8	291.3	296.1	194.8	157.9	155.9
62.5°	576.8	201.6	86.7	88.6	102.3	114.9	199.7	248.4	176.3	150.0	150.0
65°	192.9	99.4	76.0	68.2	68.2	71.1	120.8	172.4	149.1	125.7	125.7
67.5°	82.8	74.1	66.2	59.4	54.6	51.6	68.2	100.4	111.0	95.4	91.6
70°	64.3	62.3	57.5	49.7	42.8	39.0	39.9	51.6	63.3	61.4	59.4
72.5°	47.8	47.8	45.8	39.0	33.1	28.3	26.3	27.2	30.2	31.2	32.2
75°	33.1	34.1	34.1	30.2	24.4	20.4	17.5	14.6	11.7	9.7	8.8
77.5°	22.4	23.4	25.3	22.4	18.5	13.6	10.7	7.8	4.9	2.0	2.0
80°	19.5	22.4	24.4	22.4	19.5	14.6	10.7	5.9	2.9	0.0	0.0
82.5°	20.4	22.4	25.3	21.5	18.5	13.6	10.7	6.8	2.9	0.9	0.0
85°	4.9	4.9	5.9	6.8	8.8	9.7	7.8	4.9	2.9	0.9	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	0.9	0.9	0.9	0.9	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)