

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: P646805

Luminaire Tested: **GALN-SA2C-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9663.8 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

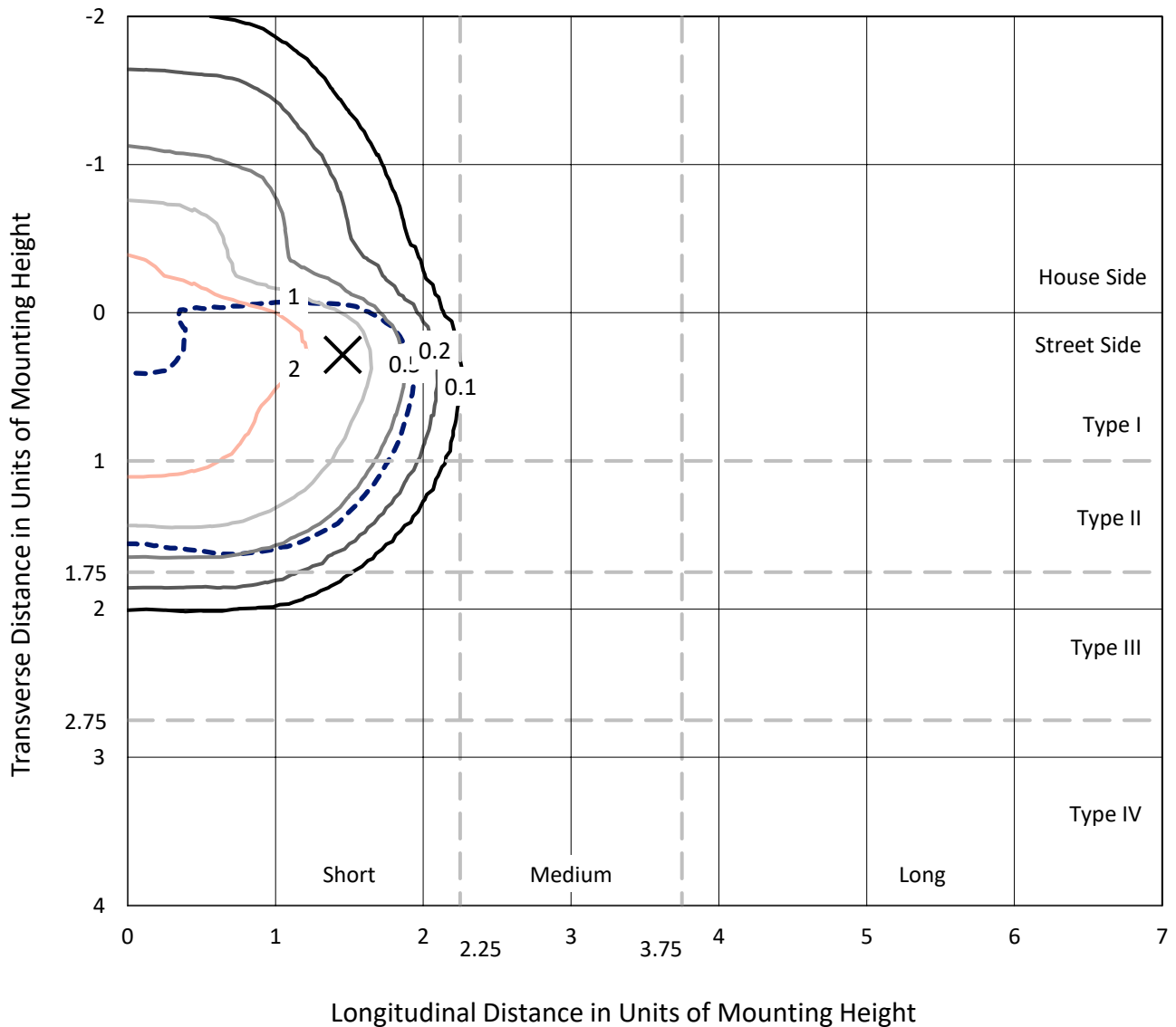
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

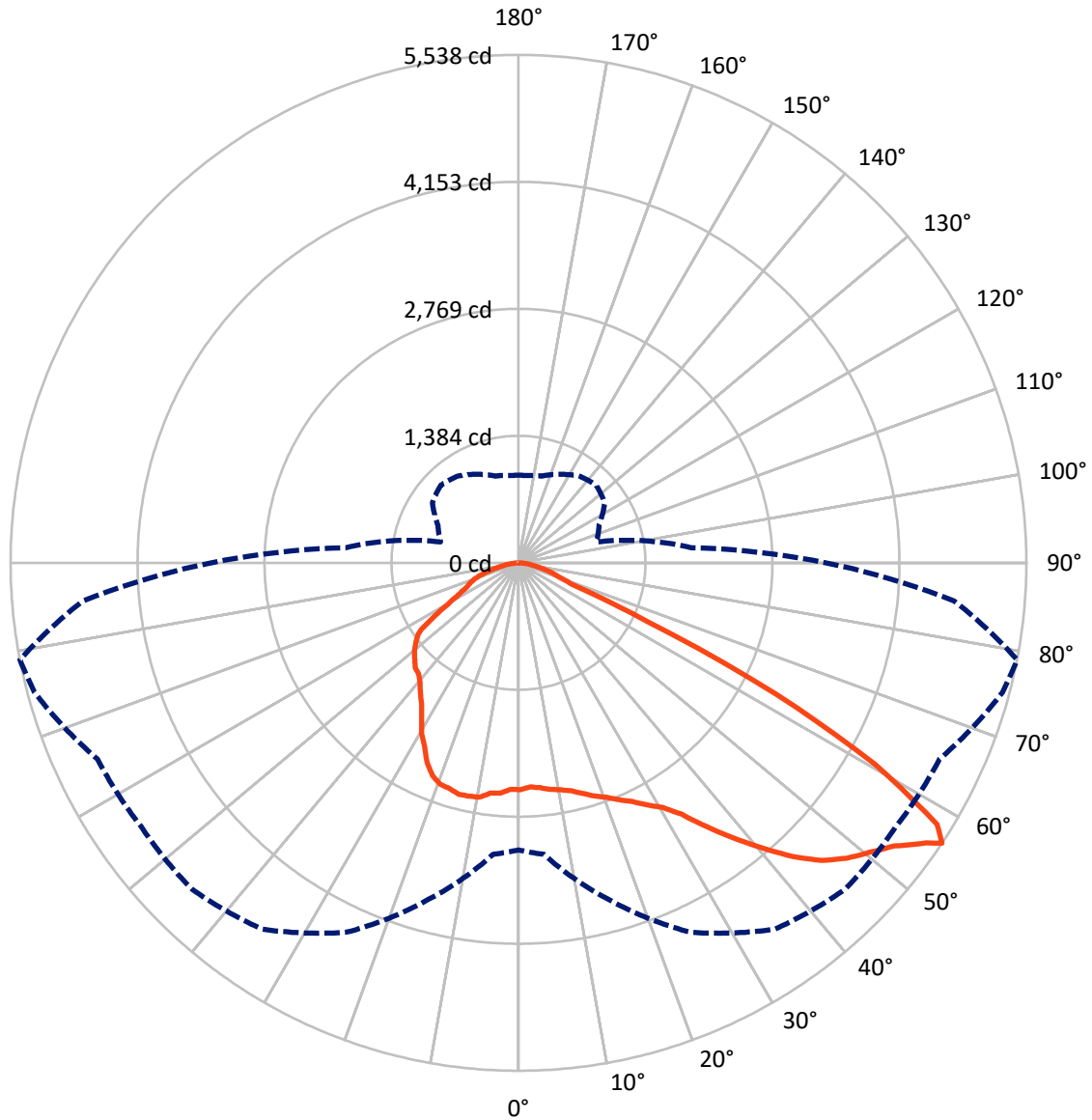
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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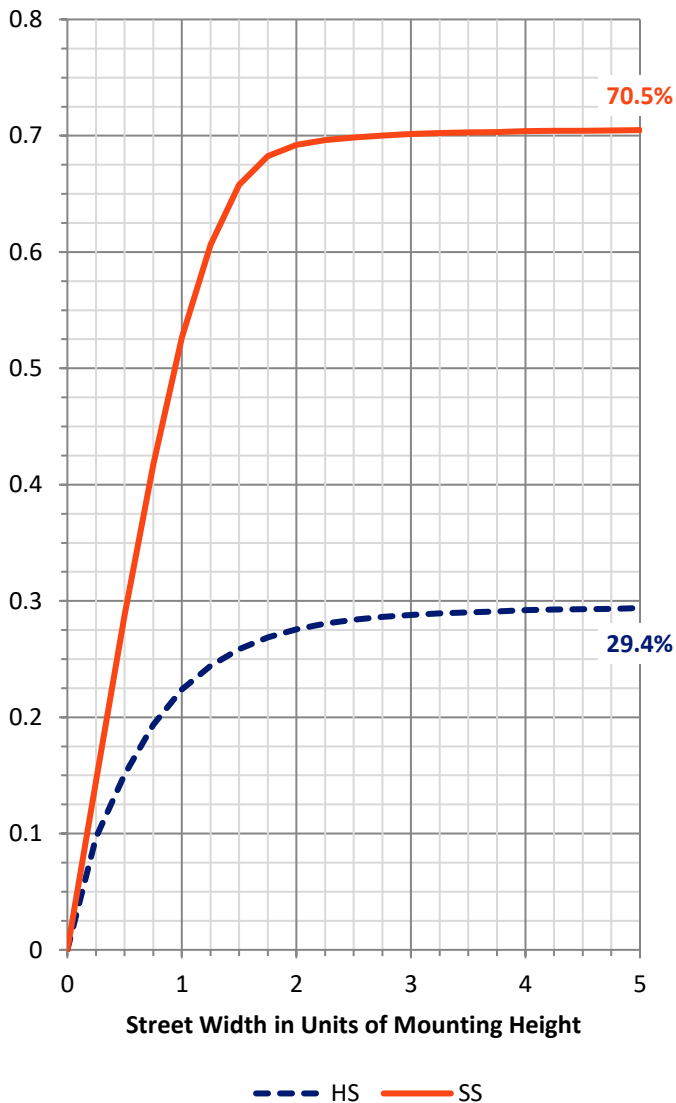
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2853.9	0.0	2853.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	6809.9	0.0	6809.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	9663.8	0.0	9663.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	2.3
10°-20°	615.2	6.4
20°-30°	1052.5	10.9
30°-40°	1613.1	16.7
40°-50°	2180.2	22.6
50°-60°	2504.0	25.9
60°-70°	1141.4	11.8
70°-80°	281.4	2.9
80°-90°	51.1	0.5
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°	9663.8	100.0
0°-180°	9663.8	100.0

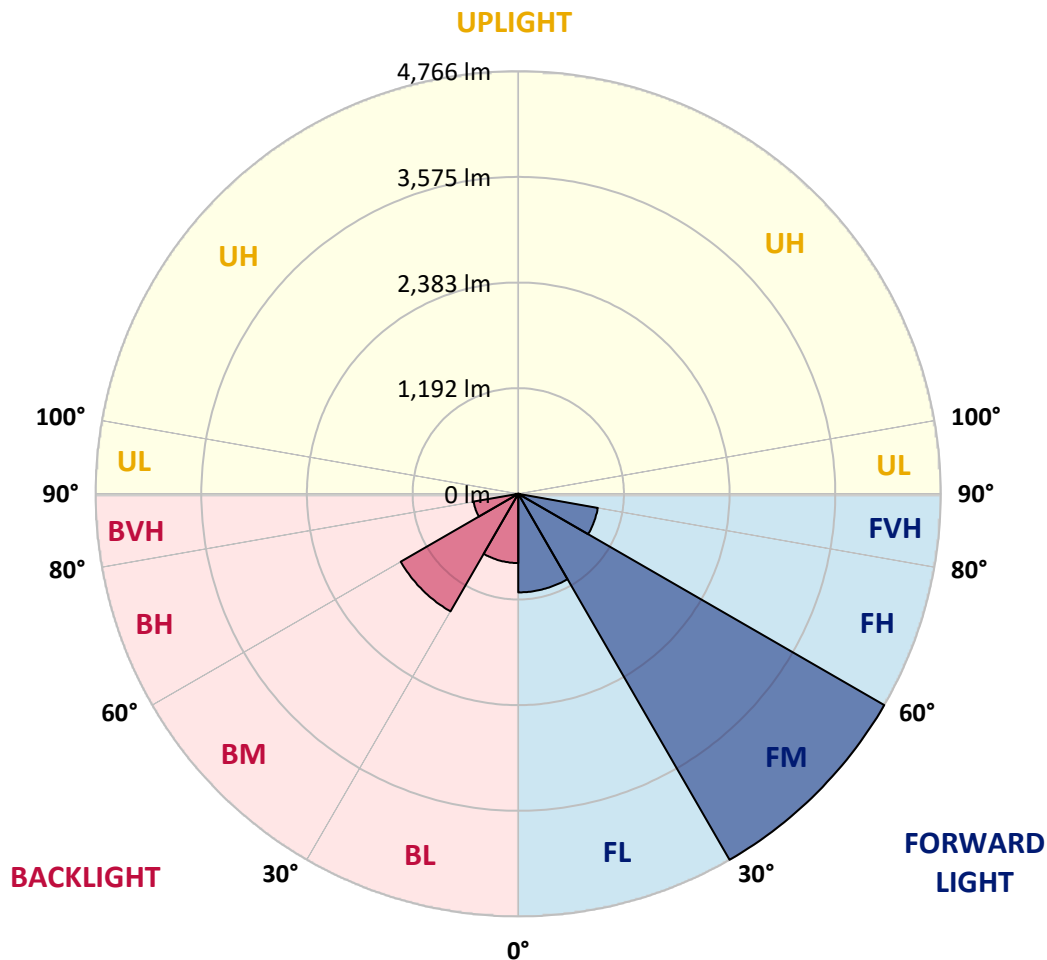


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1111.9	11.5			
FM (30°-60°)	4766.5	49.3			
FH (60°-80°)	911.1	9.4			G1/1800
FVH (80°-90°)	20.4	0.2			G1/100
BL (0°-30°)	780.7	8.1	B2/1000		
BM (30°-60°)	1530.8	15.8	B2/2500		
BH (60°-80°)	511.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	30.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6
2.5°	2352.2	2346.2	2360.7	2371.5	2384.7	2401.5	2410.0	2414.8	2456.9	2446.1	2478.6
5°	2301.6	2286.0	2296.9	2305.2	2328.1	2348.6	2371.5	2407.6	2446.1	2462.9	2502.7
7.5°	2257.1	2248.7	2246.3	2252.3	2283.6	2310.1	2349.8	2402.8	2465.4	2493.1	2515.9
10°	2183.7	2171.7	2189.7	2229.4	2237.8	2293.3	2339.0	2414.8	2469.0	2517.1	2584.5
12.5°	2151.1	2139.2	2142.8	2165.6	2224.6	2277.6	2331.8	2417.2	2531.6	2550.9	2641.1
15°	2203.0	2190.9	2194.5	2188.5	2245.1	2272.7	2358.2	2465.4	2574.9	2607.4	2703.7
17.5°	2320.9	2322.1	2306.5	2293.3	2279.9	2339.0	2397.9	2494.2	2591.7	2673.6	2745.8
20°	2546.0	2506.3	2475.0	2400.4	2379.9	2405.1	2479.8	2572.5	2660.4	2727.8	2809.6
22.5°	2719.4	2723.0	2678.4	2555.6	2511.1	2522.0	2585.7	2661.6	2757.9	2806.0	2899.9
25°	2970.9	2945.6	2897.5	2800.0	2700.1	2708.6	2755.5	2824.1	2850.6	2884.3	2986.6
27.5°	3200.9	3208.1	3113.0	3021.5	2897.5	2873.5	2957.7	2969.8	2925.2	2989.0	3023.9
30°	3434.4	3428.4	3365.8	3258.7	3137.1	3141.9	3179.2	3120.3	3058.8	3093.7	3117.8
32.5°	3676.3	3607.8	3605.3	3509.0	3416.4	3371.8	3326.0	3354.9	3259.9	3267.1	3244.2
35°	3870.2	3879.8	3824.4	3755.8	3710.1	3631.8	3506.7	3558.4	3540.3	3531.9	3433.2
37.5°	4011.0	3973.7	4001.4	3978.5	3935.2	3837.6	3707.7	3757.0	3765.4	3806.4	3692.0
40°	4126.6	4110.9	4184.4	4196.4	4166.3	3955.6	3722.1	3869.0	3995.3	4084.4	3948.4
42.5°	4181.9	4215.7	4292.7	4385.4	4318.0	4092.9	3796.8	3954.5	4236.1	4377.0	4191.6
45°	4256.6	4213.2	4327.6	4497.3	4498.6	4208.5	3869.0	4070.0	4424.0	4628.5	4357.7
47.5°	4180.8	4202.4	4320.4	4535.8	4591.3	4330.0	4064.0	4233.8	4631.0	4812.7	4511.8
50°	4011.0	4054.4	4269.9	4493.7	4661.0	4458.8	4287.9	4410.7	4822.3	4960.8	4537.1
52.5°	3834.0	3858.2	4195.2	4526.2	4692.4	4624.9	4587.6	4655.0	5055.9	5128.1	4568.4
55°	3352.6	3466.9	3948.4	4511.8	4845.3	4924.7	4895.8	4994.5	5320.7	5393.0	4739.3
56°	3129.9	3190.0	3800.4	4444.4	4875.3	5034.2	5019.8	5064.4	5461.6	5537.5	4765.8
57.5°	2718.2	2723.0	3240.6	4145.8	4762.2	5066.7	5052.3	5087.2	5433.9	5382.1	4533.5
60°	1701.0	1775.6	2205.3	3188.8	4049.5	4700.8	4782.6	4502.2	4581.6	4472.1	3527.1
62.5°	881.2	870.3	1155.6	1864.6	2688.0	3365.8	3441.6	3428.4	3305.6	3145.5	2304.1
65°	439.4	441.8	604.3	923.3	1377.1	1762.4	1974.2	1997.1	1670.8	1537.3	1093.1
67.5°	319.0	331.1	434.6	564.5	648.9	725.9	889.6	872.7	660.9	628.4	582.6
70°	248.0	258.8	352.7	431.0	391.3	391.3	426.1	440.6	470.7	483.9	499.6
72.5°	180.6	189.0	269.7	297.3	256.4	275.7	319.0	352.7	384.0	388.8	406.8
75°	124.0	131.2	177.0	163.7	154.1	190.2	233.6	264.8	287.7	299.7	310.6
77.5°	80.6	83.1	101.1	85.5	98.7	122.8	151.7	178.1	201.0	210.6	213.1
80°	36.1	39.7	43.3	54.2	68.6	87.9	108.4	130.0	144.5	148.1	155.3
82.5°	20.4	20.4	26.5	38.5	50.6	63.8	78.2	93.9	110.7	114.4	113.1
85°	10.8	10.8	15.7	22.9	31.3	37.3	36.1	37.3	39.7	45.7	44.6
87.5°	3.6	3.6	4.8	4.8	6.0	7.2	6.0	8.5	10.8	10.8	10.8
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°	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6	2472.6
2.5°	2469.0	2479.8	2465.4	2496.7	2496.7	2490.6	2460.6	2470.2	2477.4	2477.4	2483.4
5°	2515.9	2512.3	2522.0	2484.6	2461.8	2453.3	2404.0	2379.9	2359.4	2358.2	2340.2
7.5°	2542.4	2532.8	2529.2	2501.5	2400.4	2339.0	2233.0	2171.7	2158.4	2111.4	2129.5
10°	2584.5	2602.6	2584.5	2434.0	2293.3	2152.4	2048.9	1953.7	1916.4	1886.3	1868.3
12.5°	2671.2	2662.7	2558.1	2354.6	2157.2	1989.8	1835.7	1735.8	1698.6	1672.1	1669.7
15°	2744.6	2702.5	2542.4	2229.4	1945.3	1767.2	1640.8	1569.8	1552.9	1555.3	1566.2
17.5°	2769.9	2741.0	2460.6	2099.4	1787.6	1578.1	1519.2	1508.4	1524.0	1542.0	1546.9
20°	2809.6	2763.9	2426.8	1922.4	1592.6	1460.2	1456.6	1495.1	1524.0	1550.5	1554.1
22.5°	2892.7	2777.1	2317.3	1755.1	1459.0	1425.3	1460.2	1492.7	1537.3	1558.9	1539.6
25°	2916.8	2748.3	2163.2	1554.1	1374.7	1403.6	1441.0	1485.5	1516.7	1528.8	1537.3
27.5°	2937.3	2703.7	1954.9	1420.4	1348.2	1402.4	1441.0	1478.2	1495.1	1505.9	1515.6
30°	2995.1	2690.5	1774.4	1331.4	1331.4	1378.3	1427.7	1437.4	1460.2	1473.4	1490.3
32.5°	3023.9	2599.0	1589.0	1274.8	1314.5	1390.4	1394.0	1412.1	1413.2	1424.0	1406.0
35°	3099.7	2533.9	1416.8	1233.9	1321.8	1378.3	1396.4	1385.6	1326.6	1297.7	1303.7
37.5°	3155.1	2501.5	1292.9	1229.1	1323.0	1391.5	1401.2	1319.4	1258.0	1209.8	1221.9
40°	3304.4	2420.8	1199.0	1220.6	1333.8	1406.0	1379.6	1290.5	1179.7	1130.3	1122.0
42.5°	3418.7	2363.0	1140.0	1211.0	1342.2	1426.5	1368.7	1232.7	1119.5	1073.8	1085.8
45°	3551.1	2349.8	1108.6	1213.4	1356.7	1437.4	1355.5	1188.1	1067.8	1049.7	1046.1
47.5°	3598.1	2254.7	1075.0	1193.0	1353.0	1433.7	1310.9	1154.5	1048.5	1050.9	1060.6
50°	3519.9	2157.2	1049.7	1150.9	1329.0	1401.2	1241.1	1109.9	1037.6	1067.8	1084.6
52.5°	3420.0	2057.3	997.9	1094.2	1279.7	1350.7	1208.6	1107.5	1026.8	1017.2	1020.8
55°	3450.1	1975.4	925.7	1017.2	1200.2	1256.8	1172.5	1084.6	1000.4	964.3	976.2
56°	3352.6	1891.2	878.8	969.0	1146.0	1196.6	1154.5	1064.2	978.7	954.6	954.6
57.5°	3076.9	1608.3	817.4	892.0	1031.7	1091.8	1119.5	1052.1	954.6	912.5	913.7
60°	2269.1	1143.6	733.1	786.1	854.7	902.9	1031.7	1018.4	894.4	865.5	854.7
62.5°	1398.8	835.5	672.9	693.3	728.3	768.0	900.4	922.1	830.6	799.3	792.1
65°	783.7	639.2	627.2	635.6	652.5	672.9	747.5	795.7	733.1	685.0	682.5
67.5°	573.0	571.8	581.5	588.7	595.9	595.9	614.0	633.2	624.8	586.2	582.6
70°	509.2	512.8	520.1	521.2	523.7	515.2	500.8	494.8	504.4	480.3	475.5
72.5°	420.2	432.1	440.6	441.8	428.5	417.7	398.5	378.0	370.8	366.0	364.7
75°	322.6	331.1	334.7	333.5	328.6	313.0	290.1	269.7	256.4	241.9	249.2
77.5°	217.9	229.9	235.9	235.9	228.7	204.7	193.8	178.1	164.9	149.2	151.7
80°	152.9	161.3	170.9	169.8	157.7	145.6	130.0	115.6	104.8	92.7	91.5
82.5°	114.4	119.2	124.0	121.6	113.1	101.1	90.3	77.0	65.0	56.6	56.6
85°	41.0	44.6	54.2	56.6	61.4	61.4	51.8	43.3	34.9	28.9	28.9
87.5°	12.1	12.1	13.2	13.2	12.1	13.2	10.8	12.1	13.2	8.5	8.5
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)