

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: P646801

Luminaire Tested: **GALN-SA2C-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
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-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6610.9 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

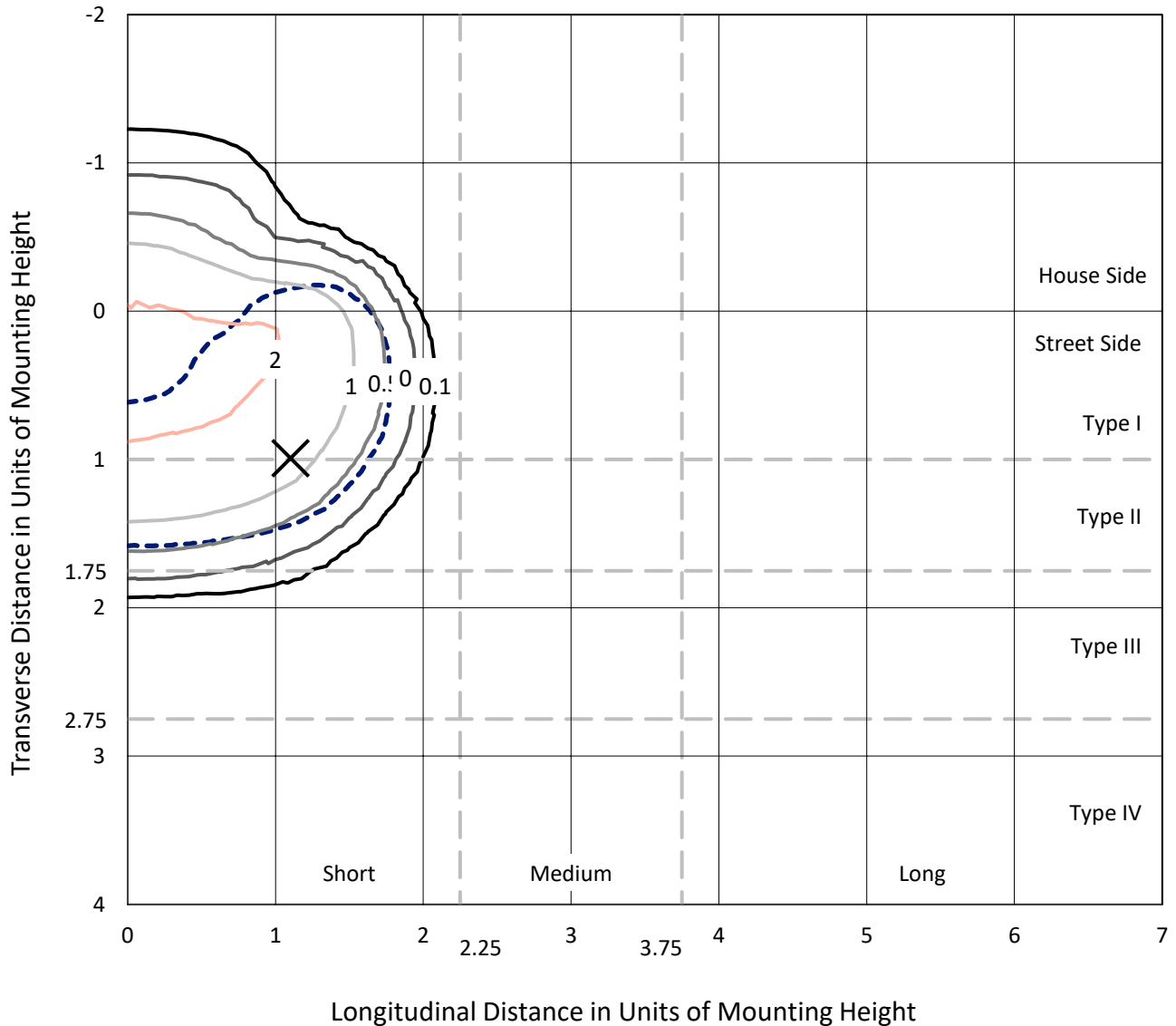
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

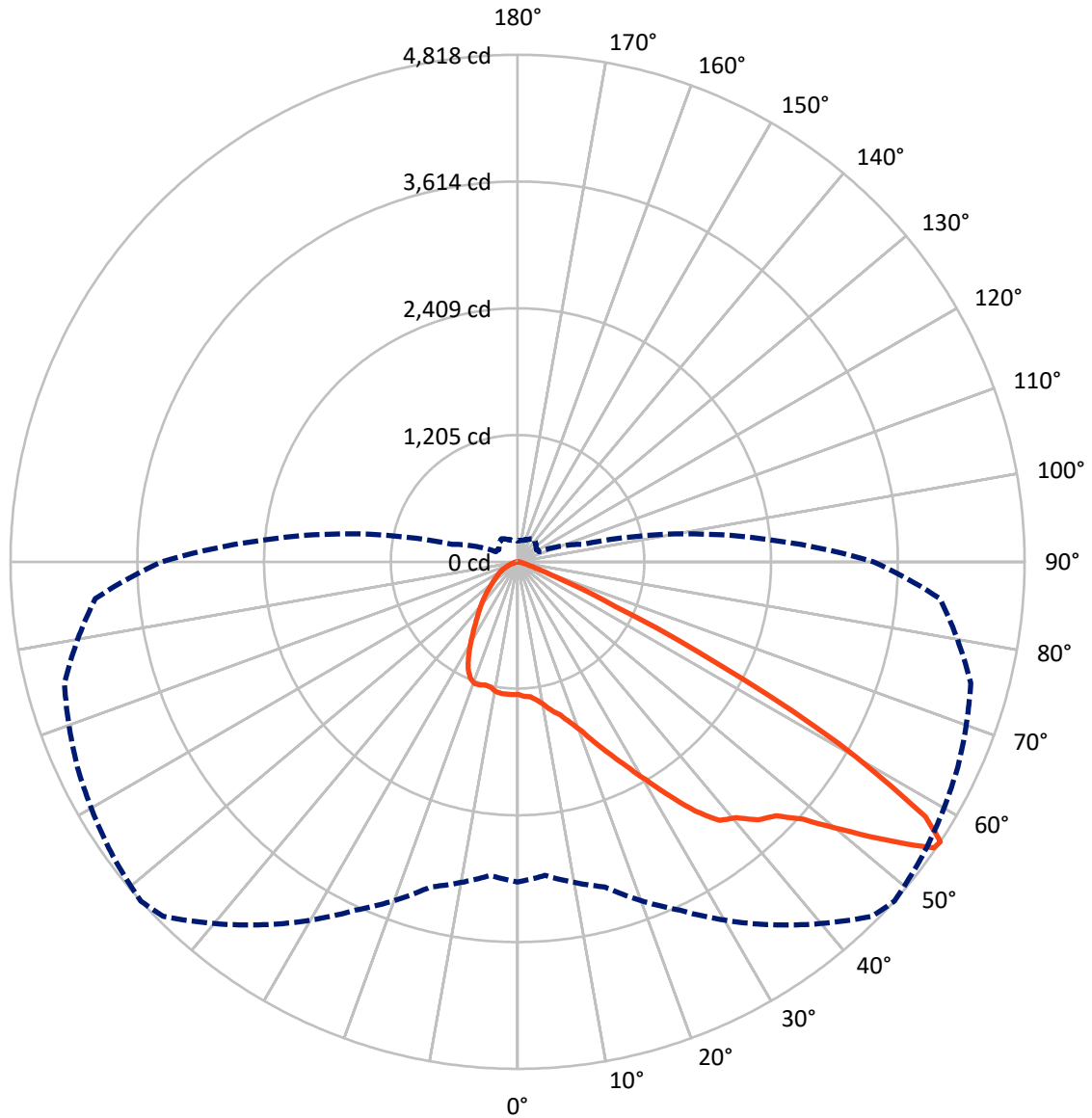
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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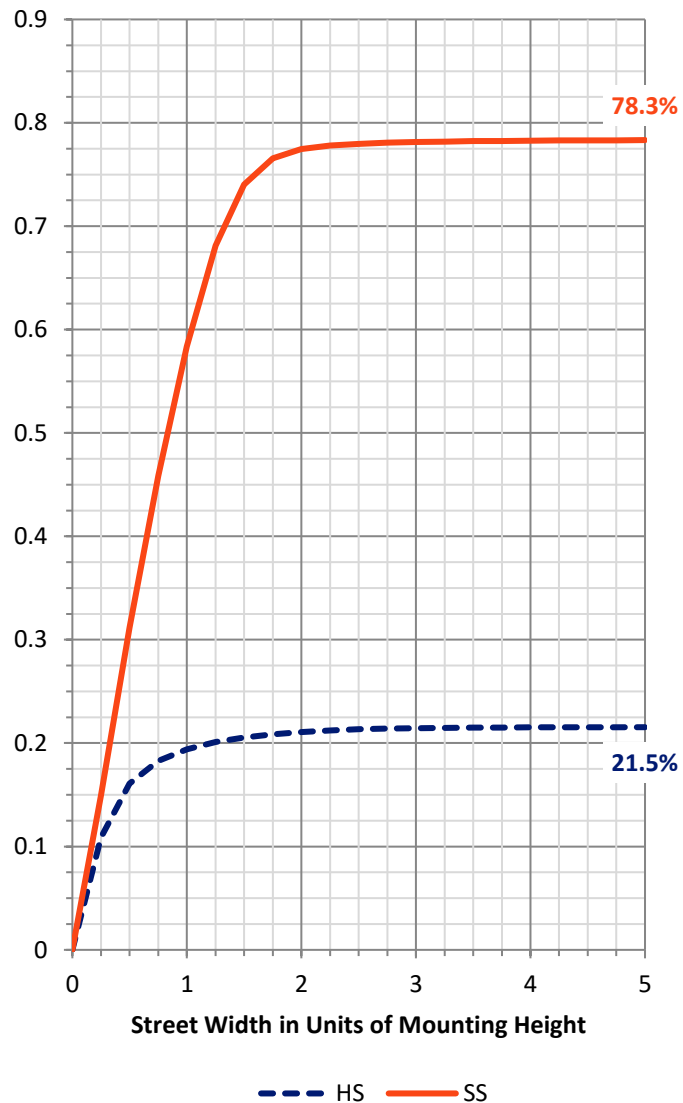
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1437.7	0.0	1437.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5173.1	0.0	5173.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	6610.9	0.0	6610.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	1.9
10°-20°	393.1	5.9
20°-30°	713.0	10.8
30°-40°	1119.9	16.9
40°-50°	1633.8	24.7
50°-60°	1968.4	29.8
60°-70°	576.3	8.7
70°-80°	73.1	1.1
80°-90°	10.2	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°	6610.9	100.0
0°-180°	6610.9	100.0

Coefficient of Utilization

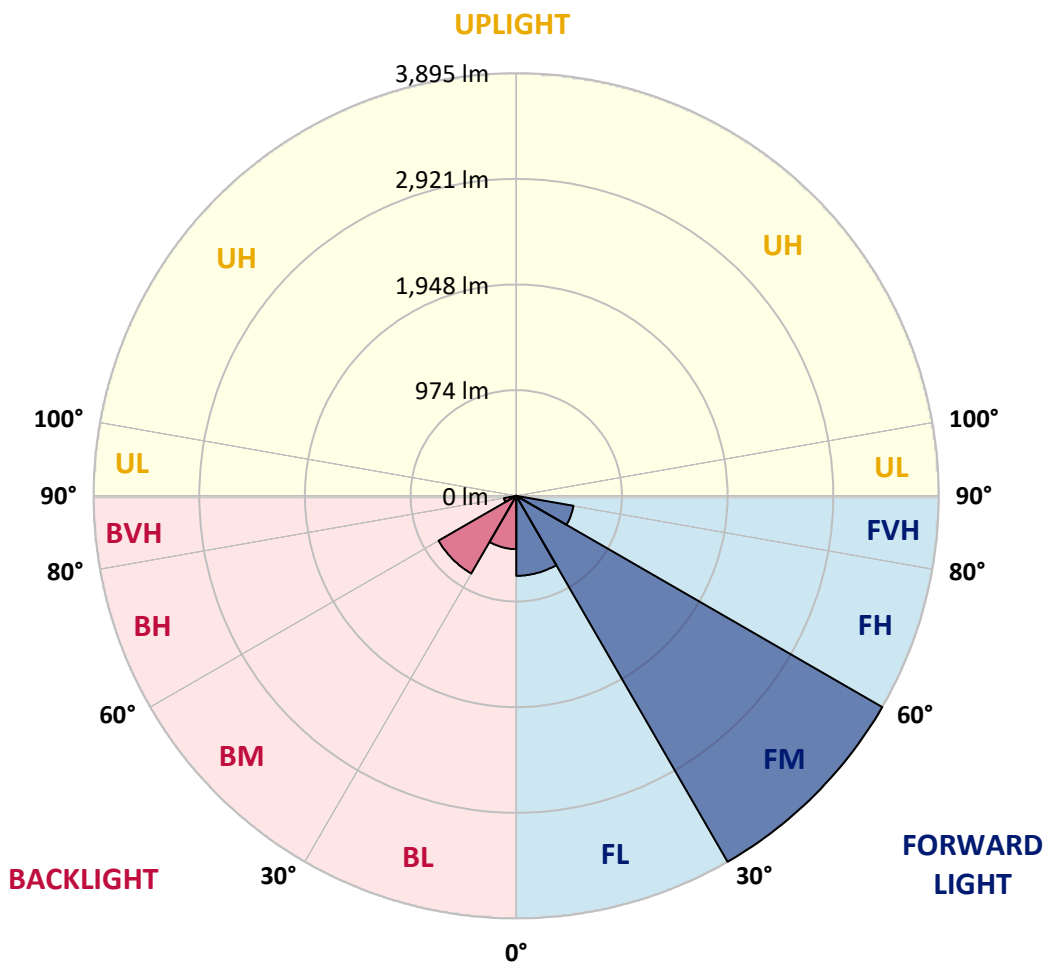


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.6	11.2			
FM (30°-60°)	3895.1	58.9			
FH (60°-80°)	535.2	8.1			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	491.4	7.4	B1/500		
BM (30°-60°)	827.0	12.5	B1/1000		
BH (60°-80°)	114.2	1.7	B1/500		G1/500
BVH (80°-90°)	5.1	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7
2.5°	1285.5	1279.5	1279.5	1269.9	1280.8	1275.9	1279.5	1267.5	1279.5	1261.5	1275.9
5°	1291.6	1292.7	1288.0	1294.0	1294.0	1301.2	1289.1	1300.0	1306.0	1292.7	1286.8
7.5°	1322.9	1325.3	1324.1	1319.3	1328.9	1327.7	1326.5	1318.0	1320.5	1315.7	1308.4
10°	1384.3	1383.0	1389.0	1377.1	1369.8	1378.2	1380.7	1367.4	1357.8	1354.2	1331.3
12.5°	1473.3	1458.9	1450.4	1438.4	1442.1	1430.0	1451.7	1428.8	1424.0	1402.3	1379.4
15°	1545.6	1543.1	1544.3	1525.0	1503.4	1508.2	1508.2	1496.2	1489.0	1462.5	1430.0
17.5°	1693.6	1643.0	1653.9	1629.8	1611.7	1610.6	1599.7	1602.1	1582.8	1527.5	1478.1
20°	1809.1	1787.5	1770.7	1729.7	1702.0	1710.5	1705.6	1693.6	1687.6	1615.3	1545.6
22.5°	1912.7	1919.9	1892.2	1881.4	1842.9	1846.5	1856.1	1845.3	1799.5	1724.9	1621.4
25°	2058.4	2049.9	2012.5	1999.3	1963.2	1976.4	2013.8	2005.3	1976.4	1841.7	1680.4
27.5°	2230.5	2201.6	2208.8	2148.6	2113.7	2151.0	2195.5	2237.7	2155.8	1978.9	1750.2
30°	2352.1	2321.9	2319.6	2317.1	2308.7	2352.1	2403.8	2442.3	2376.1	2116.1	1865.7
32.5°	2412.2	2419.5	2439.9	2432.7	2506.1	2595.2	2649.4	2704.7	2621.6	2340.0	2018.6
35°	2572.3	2526.6	2572.3	2577.1	2653.0	2841.9	2910.6	3043.0	3022.5	2656.6	2205.2
37.5°	2666.2	2662.6	2668.6	2714.3	2787.8	3021.3	3118.8	3221.1	3182.6	2846.8	2437.5
40°	2821.5	2831.1	2829.9	2864.8	2945.4	3156.1	3195.8	3278.9	3282.5	3110.4	2779.3
42.5°	3070.6	3032.1	3006.8	3043.0	3156.1	3272.9	3352.3	3335.4	3454.6	3430.6	3218.7
45°	3294.6	3317.4	3280.1	3340.3	3381.2	3443.8	3441.4	3477.5	3629.1	3743.5	3549.7
47.5°	3503.9	3518.4	3536.5	3577.4	3666.5	3676.1	3655.6	3640.0	3849.5	3967.4	3806.1
50°	3629.1	3642.4	3726.6	3800.1	3966.2	3987.8	3999.9	3960.2	4102.2	4115.4	4048.0
52.5°	3595.5	3609.9	3727.9	3969.8	4234.6	4433.2	4397.1	4329.7	4321.3	4373.1	4271.9
55°	3296.9	3283.7	3446.2	3822.9	4318.9	4795.6	4800.3	4729.3	4593.3	4558.4	4238.2
56°	3043.0	2991.2	3198.2	3653.2	4210.5	4764.2	4818.4	4742.6	4615.0	4458.5	4029.9
57.5°	2492.8	2542.2	2748.0	3124.8	3836.2	4539.1	4570.4	4552.4	4456.1	4193.7	3546.1
60°	1374.6	1461.3	1643.0	2104.1	2731.2	3483.5	3508.8	3655.6	3673.7	3211.5	2439.9
62.5°	583.8	574.2	763.1	1102.6	1555.2	2102.8	2149.8	2300.3	2327.9	1851.3	1224.1
65°	237.1	250.4	345.5	554.9	822.2	958.2	1024.3	1073.7	1165.2	764.4	451.4
67.5°	156.4	155.3	203.4	316.6	442.9	427.3	427.3	451.4	417.7	311.8	195.0
70°	112.0	115.6	145.6	219.1	275.6	204.6	196.2	187.8	213.1	205.9	157.7
72.5°	73.4	78.2	97.5	131.2	143.2	112.0	112.0	134.8	175.7	166.1	128.8
75°	48.2	49.3	60.2	75.8	71.0	57.8	63.8	90.3	127.6	122.8	91.5
77.5°	32.5	33.7	41.0	49.3	39.7	32.5	34.9	45.7	62.6	62.6	48.2
80°	12.1	13.2	16.8	15.7	18.1	22.9	25.3	31.3	37.3	37.3	32.5
82.5°	0.0	1.2	3.6	8.5	13.2	18.1	20.4	24.0	27.7	31.3	30.1
85°	0.0	1.2	3.6	6.0	9.6	10.8	12.1	8.5	7.2	7.2	6.0
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.4	1.2	1.2
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°	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7
2.5°	1262.7	1261.5	1261.5	1257.9	1265.1	1261.5	1263.9	1262.7	1247.0	1259.1	1250.6
5°	1275.9	1284.4	1271.1	1268.7	1259.1	1262.7	1262.7	1250.6	1261.5	1260.2	1257.9
7.5°	1309.6	1295.2	1280.8	1266.3	1263.9	1260.2	1247.0	1242.2	1250.6	1241.0	1255.5
10°	1324.1	1326.5	1304.8	1285.5	1267.5	1242.2	1224.1	1213.3	1200.1	1214.5	1223.0
12.5°	1390.3	1366.2	1328.9	1298.8	1237.4	1212.2	1194.1	1189.2	1212.2	1216.9	1208.5
15°	1413.2	1409.6	1361.4	1294.0	1230.2	1200.1	1203.7	1194.1	1196.5	1184.4	1186.9
17.5°	1460.1	1419.2	1362.6	1278.3	1229.0	1221.7	1200.1	1161.6	1139.9	1130.3	1138.7
20°	1511.8	1472.1	1390.3	1284.4	1239.8	1220.5	1149.5	1102.6	1058.1	1034.0	1035.2
22.5°	1557.6	1508.2	1378.2	1286.8	1249.4	1170.0	1084.5	991.8	936.5	899.2	900.4
25°	1613.0	1543.1	1383.0	1291.6	1224.1	1089.3	966.5	876.3	810.1	784.8	793.3
27.5°	1644.2	1564.8	1409.6	1302.4	1158.0	975.0	842.6	758.3	719.8	707.8	706.6
30°	1738.1	1613.0	1442.1	1280.8	1047.2	852.2	729.4	677.7	640.3	629.5	632.0
32.5°	1877.8	1700.8	1484.2	1224.1	934.0	742.7	656.0	617.5	582.6	562.1	559.7
35°	1994.5	1851.3	1528.7	1136.3	802.9	658.4	604.2	556.1	503.2	480.3	474.3
37.5°	2217.2	2021.0	1519.1	1003.9	677.7	595.9	548.9	489.9	444.2	412.9	409.3
40°	2513.4	2219.6	1472.1	842.6	585.0	540.4	489.9	433.3	376.8	350.3	347.9
42.5°	2873.2	2462.8	1386.7	678.9	492.4	485.1	439.3	374.4	323.8	304.5	305.8
45°	3165.7	2671.0	1300.0	545.3	423.7	430.9	391.2	329.8	294.9	279.3	279.3
47.5°	3425.7	2811.8	1206.1	450.1	359.9	376.8	341.9	305.8	275.6	263.6	261.2
50°	3676.1	2955.0	1112.3	364.7	306.9	323.8	320.2	291.3	267.2	252.8	254.0
52.5°	3832.6	2978.0	993.1	298.5	268.4	287.7	299.7	273.3	246.7	238.3	235.9
55°	3641.2	2683.0	770.4	245.5	227.5	252.8	275.6	245.5	225.1	210.6	209.5
56°	3383.6	2399.0	643.9	226.3	215.5	243.1	267.2	234.7	211.9	203.4	197.4
57.5°	2864.8	1963.2	475.4	201.0	199.8	226.3	254.0	223.9	197.4	190.2	190.2
60°	1786.3	1105.0	287.7	168.5	173.4	201.0	228.7	199.8	175.7	175.7	179.4
62.5°	813.7	459.8	174.5	143.2	149.2	173.4	203.4	180.6	167.3	180.6	183.0
65°	276.9	198.6	126.4	114.3	118.0	143.2	174.5	183.0	181.7	190.2	195.0
67.5°	155.3	127.6	105.9	95.1	92.7	105.9	143.2	183.0	175.7	172.1	174.5
70°	131.2	108.4	93.9	84.3	80.6	85.4	110.7	138.4	123.9	120.3	118.0
72.5°	105.9	90.3	81.8	75.8	65.0	55.4	50.6	52.9	59.0	62.6	68.6
75°	74.6	68.6	68.6	61.4	47.0	34.9	27.7	22.9	15.7	10.8	12.1
77.5°	42.1	42.1	43.3	37.3	30.1	22.9	16.8	12.1	6.0	2.4	1.2
80°	28.9	31.3	33.7	30.1	25.3	20.4	14.4	8.5	3.6	0.0	0.0
82.5°	28.9	32.5	34.9	30.1	25.3	19.3	14.4	8.5	3.6	1.2	0.0
85°	6.0	7.2	8.5	9.6	14.4	14.4	10.8	7.2	3.6	1.2	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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)