

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: P647846

Luminaire Tested: **GALN-SA3A-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647846
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-SA3A-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA 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: 6383 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

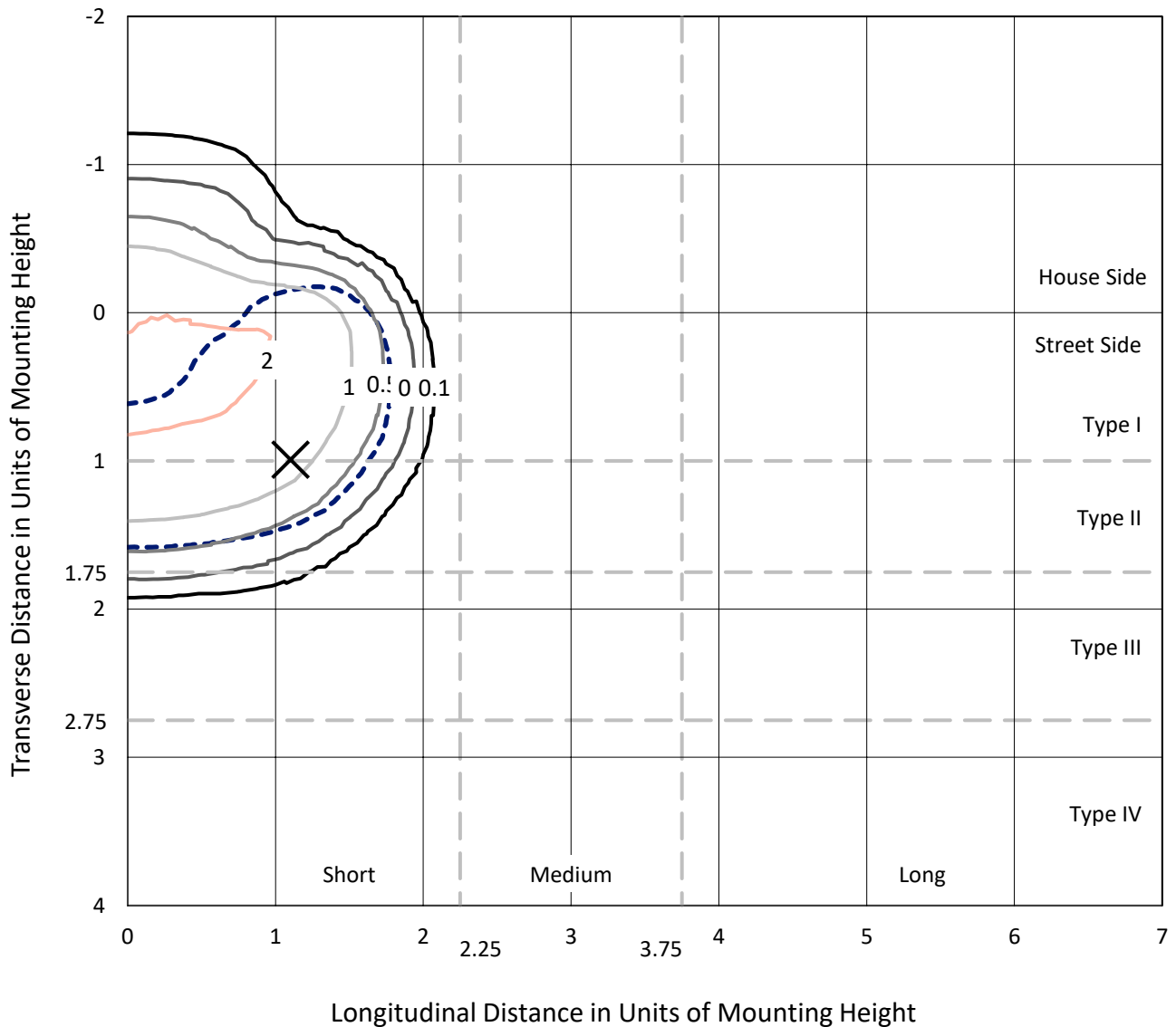
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

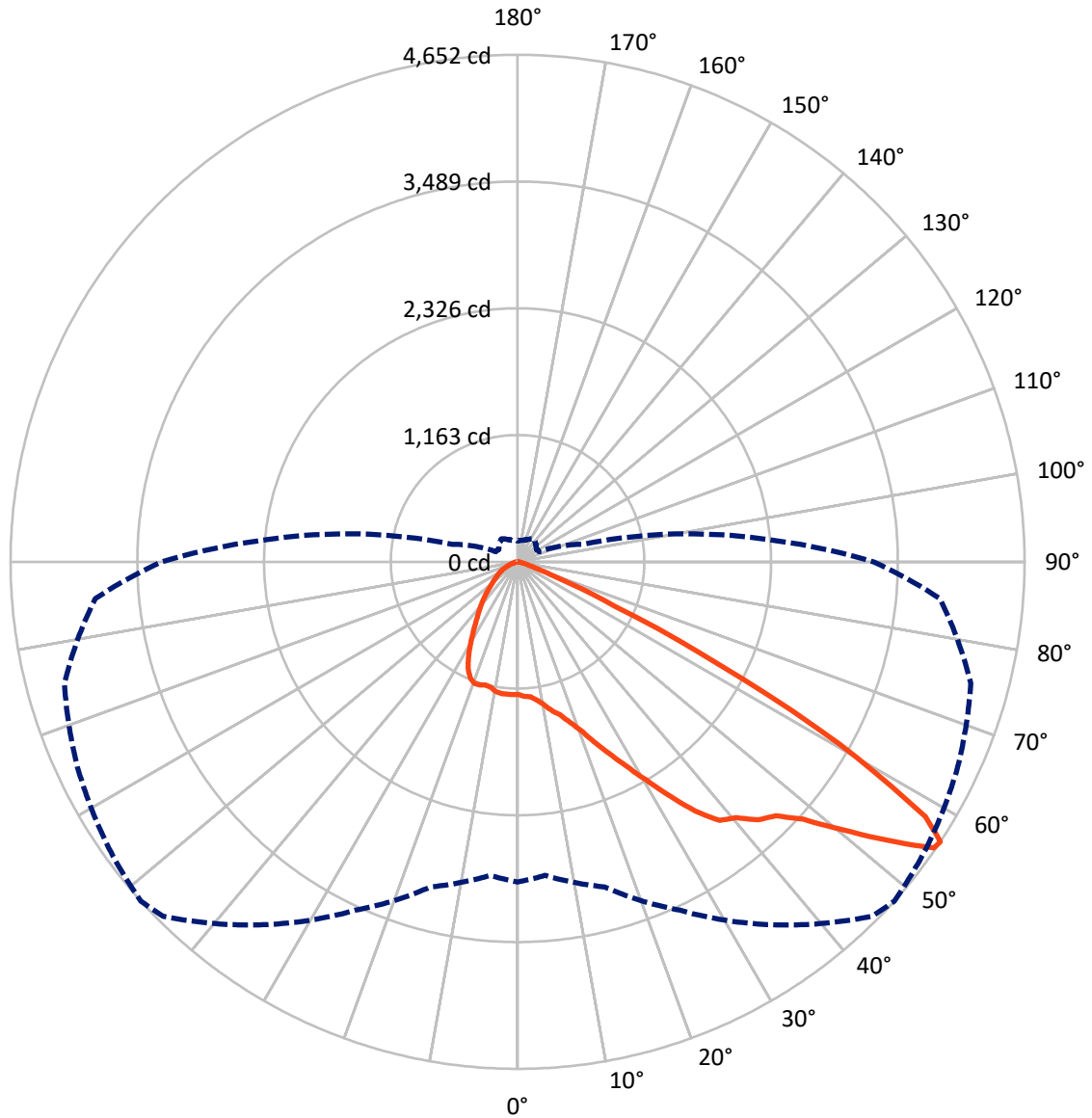
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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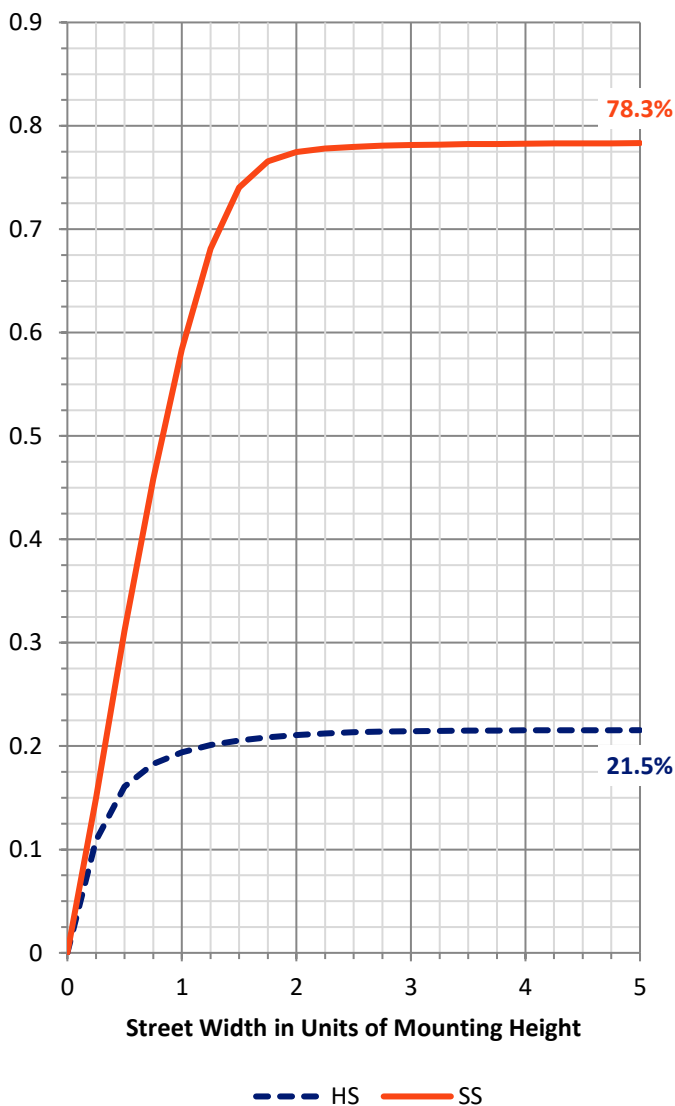
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1388.2	0.0	1388.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4994.8	0.0	4994.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	6383.0	0.0	6383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	1.9
10°-20°	379.5	5.9
20°-30°	688.4	10.8
30°-40°	1081.3	16.9
40°-50°	1577.5	24.7
50°-60°	1900.6	29.8
60°-70°	556.5	8.7
70°-80°	70.6	1.1
80°-90°	9.9	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°	6383.0	100.0
0°-180°	6383.0	100.0

Coefficient of Utilization



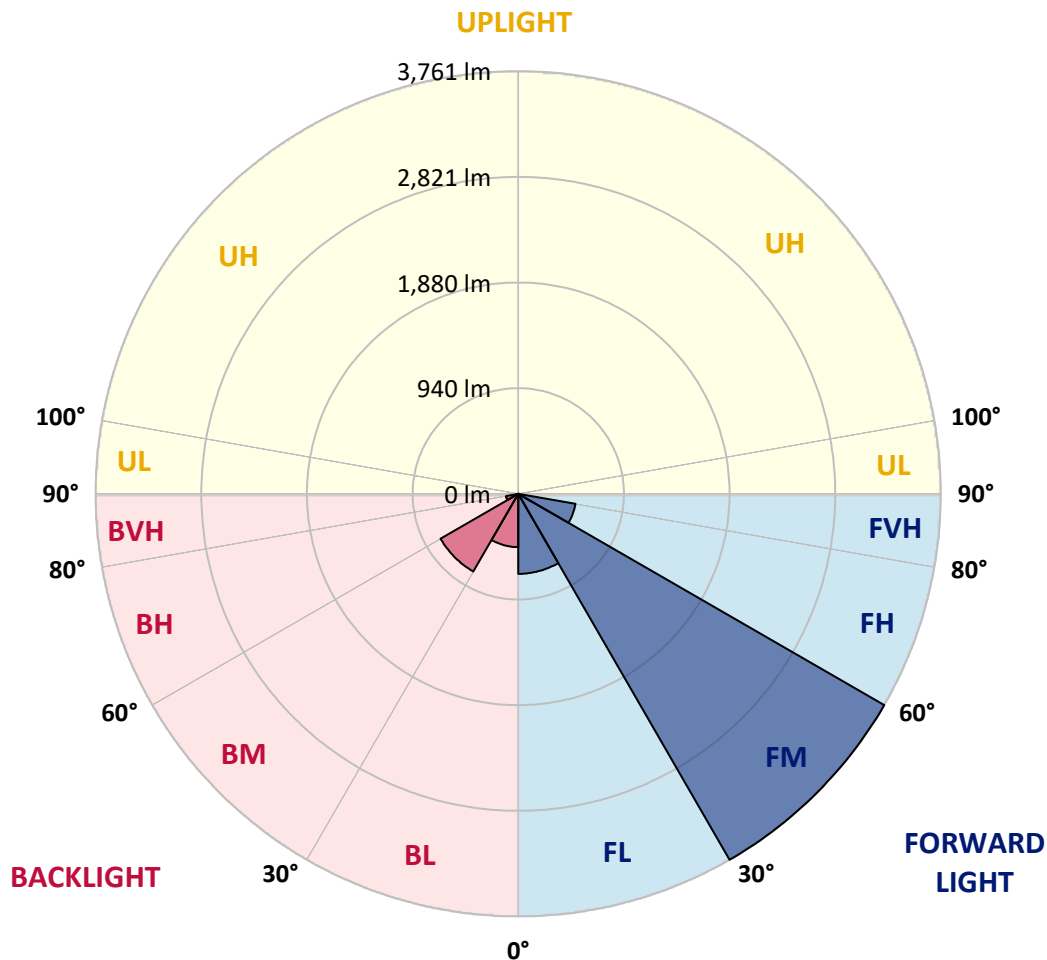
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.2	11.2			
FM (30°-60°)	3760.9	58.9			
FH (60°-80°)	516.8	8.1			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	474.5	7.4	B1/500		
BM (30°-60°)	798.5	12.5	B1/1000		
BH (60°-80°)	110.3	1.7	B1/500		G1/500
BVH (80°-90°)	4.9	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°	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1241.2	1235.4	1235.4	1226.1	1236.6	1232.0	1235.4	1223.8	1235.4	1218.0	1232.0
5°	1247.1	1248.2	1243.6	1249.4	1249.4	1256.3	1244.7	1255.1	1261.0	1248.2	1242.4
7.5°	1277.3	1279.6	1278.4	1273.8	1283.1	1281.9	1280.8	1272.6	1275.0	1270.3	1263.3
10°	1336.6	1335.4	1341.2	1329.5	1322.6	1330.7	1333.1	1320.3	1311.0	1307.5	1285.4
12.5°	1422.6	1408.6	1400.5	1388.8	1392.3	1380.7	1401.6	1379.6	1374.9	1354.0	1331.9
15°	1492.2	1490.0	1491.1	1472.5	1451.6	1456.2	1456.2	1444.6	1437.7	1412.1	1380.7
17.5°	1635.2	1586.4	1596.9	1573.6	1556.2	1555.0	1544.5	1546.9	1528.3	1474.9	1427.2
20°	1746.8	1725.9	1709.6	1670.1	1643.4	1651.5	1646.9	1635.2	1629.4	1559.7	1492.2
22.5°	1846.8	1853.8	1827.0	1816.6	1779.4	1782.8	1792.1	1781.6	1737.5	1665.4	1565.5
25°	1987.4	1979.3	1943.2	1930.4	1895.6	1908.3	1944.3	1936.3	1908.3	1778.2	1622.5
27.5°	2153.6	2125.7	2132.7	2074.6	2040.8	2076.9	2119.9	2160.5	2081.5	1910.7	1689.9
30°	2270.9	2241.9	2239.6	2237.3	2229.1	2270.9	2321.0	2358.2	2294.2	2043.2	1801.4
32.5°	2329.0	2336.1	2355.8	2348.8	2419.7	2505.8	2558.1	2611.5	2531.3	2259.3	1949.0
35°	2483.7	2439.5	2483.7	2488.3	2561.5	2743.9	2810.2	2938.1	2918.3	2565.0	2129.1
37.5°	2574.3	2570.8	2576.6	2620.8	2691.6	2917.1	3011.3	3110.1	3072.9	2748.6	2353.5
40°	2724.2	2733.5	2732.4	2766.0	2843.9	3047.3	3085.6	3165.8	3169.3	3003.1	2683.6
42.5°	2964.8	2927.6	2903.2	2938.1	3047.3	3160.0	3236.8	3220.5	3335.6	3312.3	3107.7
45°	3180.9	3203.0	3167.0	3225.1	3264.6	3325.1	3322.7	3357.7	3504.1	3614.5	3427.3
47.5°	3383.2	3397.1	3414.6	3454.1	3540.1	3549.4	3529.6	3514.5	3716.7	3830.7	3674.9
50°	3504.1	3516.8	3598.2	3669.1	3829.5	3850.4	3862.0	3823.7	3960.8	3973.6	3908.5
52.5°	3471.5	3485.4	3599.4	3832.9	4088.7	4280.4	4245.6	4180.4	4172.4	4222.3	4124.7
55°	3183.3	3170.5	3327.4	3691.2	4170.0	4630.3	4634.9	4566.3	4435.0	4401.3	4092.1
56°	2938.1	2888.1	3088.0	3527.3	4065.4	4600.0	4652.4	4579.1	4455.9	4304.9	3891.1
57.5°	2406.9	2454.6	2653.4	3017.1	3704.0	4382.7	4412.9	4395.4	4302.5	4049.1	3423.9
60°	1327.3	1410.9	1586.4	2031.6	2637.1	3363.5	3387.8	3529.6	3547.1	3100.8	2355.8
62.5°	563.7	554.4	736.8	1064.6	1501.6	2030.4	2075.7	2221.0	2247.7	1787.5	1181.9
65°	228.9	241.7	333.6	535.8	793.8	925.1	989.0	1036.7	1125.0	738.0	435.8
67.5°	151.1	149.9	196.4	305.7	427.7	412.6	412.6	435.8	403.3	301.0	188.3
70°	108.1	111.6	140.6	211.5	266.1	197.6	189.4	181.3	205.7	198.7	152.2
72.5°	70.9	75.6	94.1	126.7	138.3	108.1	108.1	130.1	169.7	160.4	124.3
75°	46.5	47.7	58.1	73.2	68.6	55.7	61.6	87.1	123.2	118.5	88.3
77.5°	31.4	32.6	39.5	47.7	38.4	31.4	33.7	44.2	60.4	60.4	46.5
80°	11.6	12.8	16.3	15.1	17.5	22.1	24.4	30.2	36.0	36.0	31.4
82.5°	0.0	1.2	3.5	8.1	12.8	17.5	19.7	23.3	26.7	30.2	29.0
85°	0.0	1.2	3.5	5.8	9.3	10.5	11.6	8.1	7.0	7.0	5.8
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.3	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°	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1219.1	1218.0	1218.0	1214.5	1221.5	1218.0	1220.3	1219.1	1204.0	1215.7	1207.5
5°	1232.0	1240.1	1227.3	1225.0	1215.7	1219.1	1219.1	1207.5	1218.0	1216.9	1214.5
7.5°	1264.5	1250.5	1236.6	1222.7	1220.3	1216.9	1204.0	1199.4	1207.5	1198.2	1212.2
10°	1278.4	1280.8	1259.8	1241.2	1223.8	1199.4	1181.9	1171.5	1158.8	1172.7	1180.8
12.5°	1342.4	1319.1	1283.1	1254.1	1194.8	1170.4	1152.9	1148.3	1170.4	1175.0	1166.8
15°	1364.5	1360.9	1314.4	1249.4	1187.8	1158.8	1162.2	1152.9	1155.2	1143.6	1145.9
17.5°	1409.8	1370.2	1315.6	1234.2	1186.6	1179.7	1158.8	1121.6	1100.6	1091.3	1099.5
20°	1459.7	1421.4	1342.4	1240.1	1197.1	1178.5	1109.9	1064.6	1021.6	998.3	999.5
22.5°	1503.9	1456.2	1330.7	1242.4	1206.4	1129.6	1047.2	957.7	904.2	868.2	869.4
25°	1557.4	1490.0	1335.4	1247.1	1181.9	1051.8	933.3	846.1	782.1	757.8	765.9
27.5°	1587.6	1510.9	1360.9	1257.5	1118.0	941.4	813.5	732.2	695.0	683.4	682.2
30°	1678.2	1557.4	1392.3	1236.6	1011.1	822.9	704.3	654.4	618.3	607.8	610.2
32.5°	1813.0	1642.2	1433.0	1181.9	901.9	717.1	633.4	596.2	562.5	542.8	540.4
35°	1925.8	1787.5	1476.0	1097.1	775.2	635.7	583.4	536.9	485.8	463.7	457.9
37.5°	2140.8	1951.3	1466.7	969.3	654.4	575.3	529.9	473.0	428.8	398.6	395.2
40°	2426.7	2143.1	1421.4	813.5	564.9	521.9	473.0	418.4	363.8	338.2	335.9
42.5°	2774.2	2377.9	1338.9	655.4	475.4	468.4	424.2	361.4	312.7	294.0	295.2
45°	3056.6	2579.0	1255.1	526.5	409.1	416.1	377.7	318.4	284.8	269.7	269.7
47.5°	3307.6	2714.9	1164.6	434.6	347.5	363.8	330.0	295.2	266.1	254.6	252.2
50°	3549.4	2853.3	1073.9	352.1	296.4	312.7	309.1	281.3	258.0	244.1	245.2
52.5°	3700.5	2875.3	958.9	288.2	259.2	277.7	289.4	263.8	238.3	230.1	227.8
55°	3515.7	2590.6	743.8	237.1	219.6	244.1	266.1	237.1	217.4	203.4	202.2
56°	3267.0	2316.3	621.8	218.5	208.0	234.7	258.0	226.6	204.5	196.4	190.6
57.5°	2766.0	1895.6	459.1	194.1	192.9	218.5	245.2	216.2	190.6	183.6	183.6
60°	1724.7	1066.9	277.7	162.7	167.3	194.1	220.8	192.9	169.7	169.7	173.2
62.5°	785.7	444.0	168.5	138.3	144.2	167.3	196.4	174.3	161.5	174.3	176.6
65°	267.3	191.8	122.1	110.4	113.9	138.3	168.5	176.6	175.5	183.6	188.3
67.5°	149.9	123.2	102.3	91.8	89.5	102.3	138.3	176.6	169.7	166.2	168.5
70°	126.7	104.6	90.7	81.4	77.8	82.5	107.0	133.7	119.7	116.2	113.9
72.5°	102.3	87.1	79.0	73.2	62.8	53.5	48.8	51.1	56.9	60.4	66.2
75°	72.0	66.2	66.2	59.3	45.3	33.7	26.7	22.1	15.1	10.5	11.6
77.5°	40.7	40.7	41.8	36.0	29.0	22.1	16.3	11.6	5.8	2.3	1.2
80°	27.9	30.2	32.6	29.0	24.4	19.7	13.9	8.1	3.5	0.0	0.0
82.5°	27.9	31.4	33.7	29.0	24.4	18.6	13.9	8.1	3.5	1.2	0.0
85°	5.8	7.0	8.1	9.3	13.9	13.9	10.5	7.0	3.5	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)