

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: P528087

Luminaire Tested: **GALN-SA3A-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528087
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-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 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: 5993 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

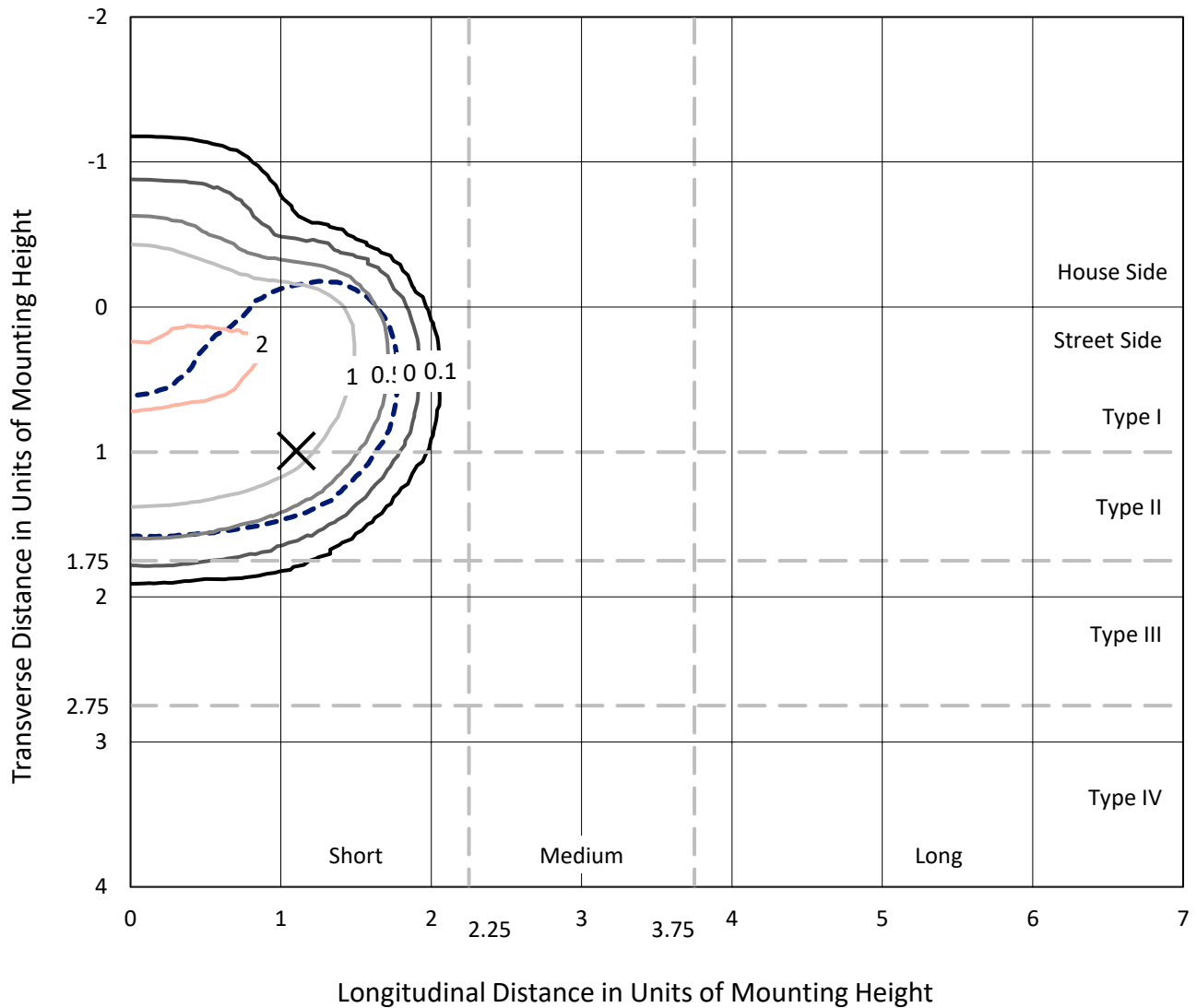
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

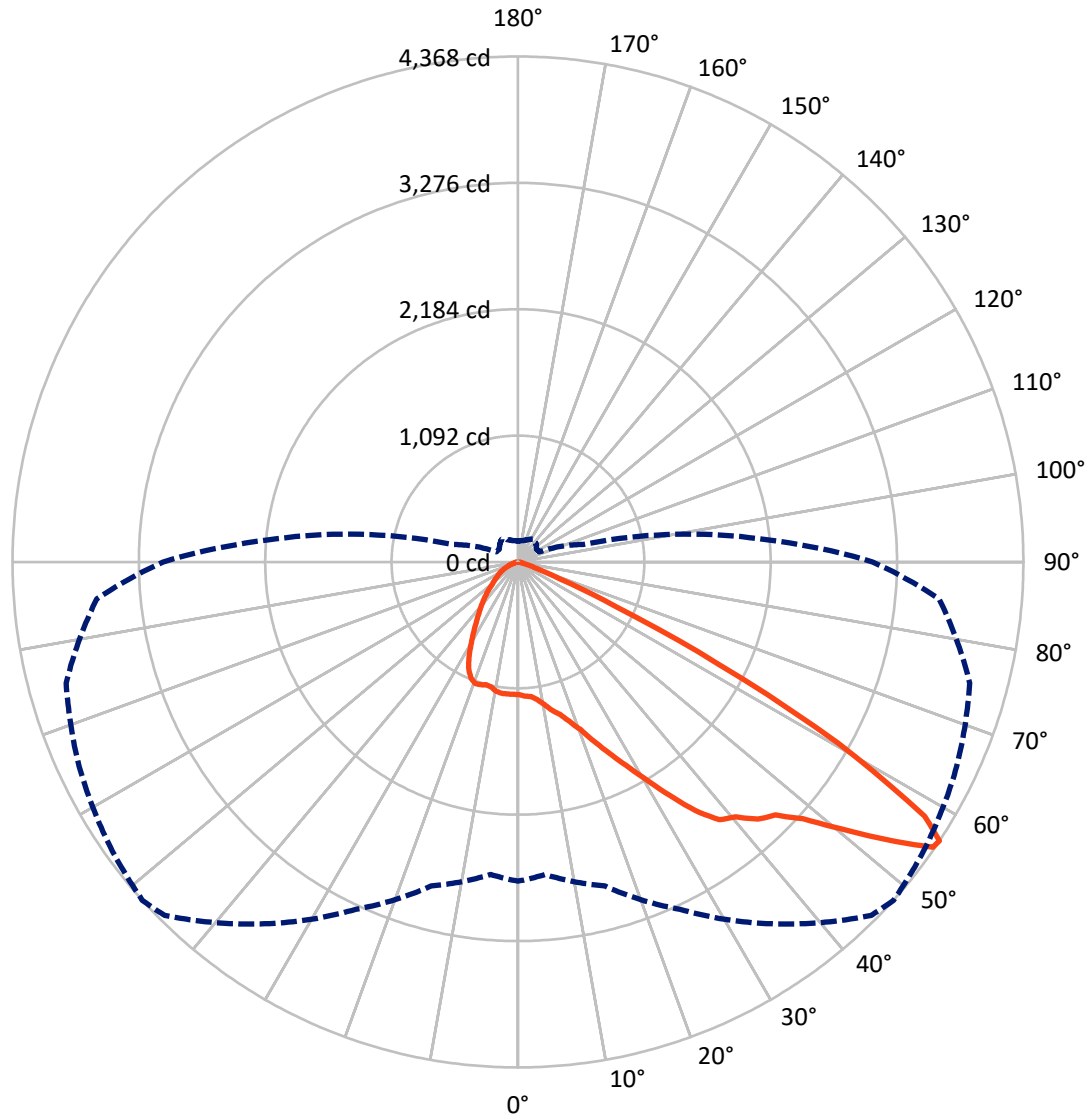
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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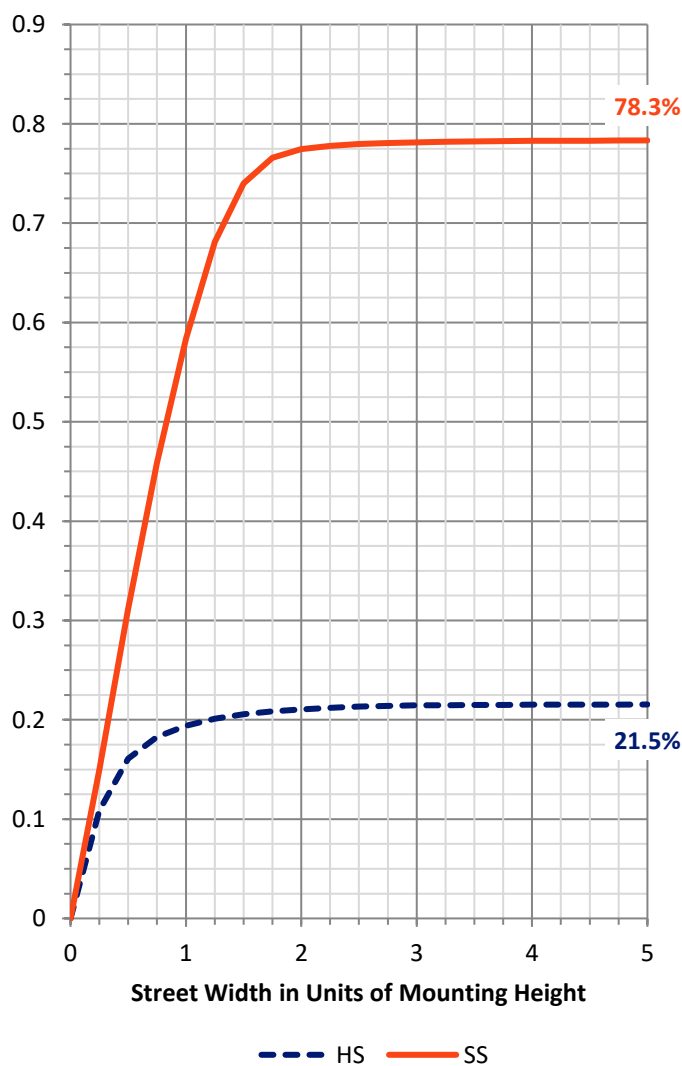
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1303.4	0.0	1303.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4689.6	0.0	4689.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	5993.0	0.0	5993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	1.9
10°-20°	356.3	5.9
20°-30°	646.3	10.8
30°-40°	1015.3	16.9
40°-50°	1481.1	24.7
50°-60°	1784.4	29.8
60°-70°	522.5	8.7
70°-80°	66.3	1.1
80°-90°	9.3	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°	5993.0	100.0
0°-180°	5993.0	100.0

Coefficient of Utilization

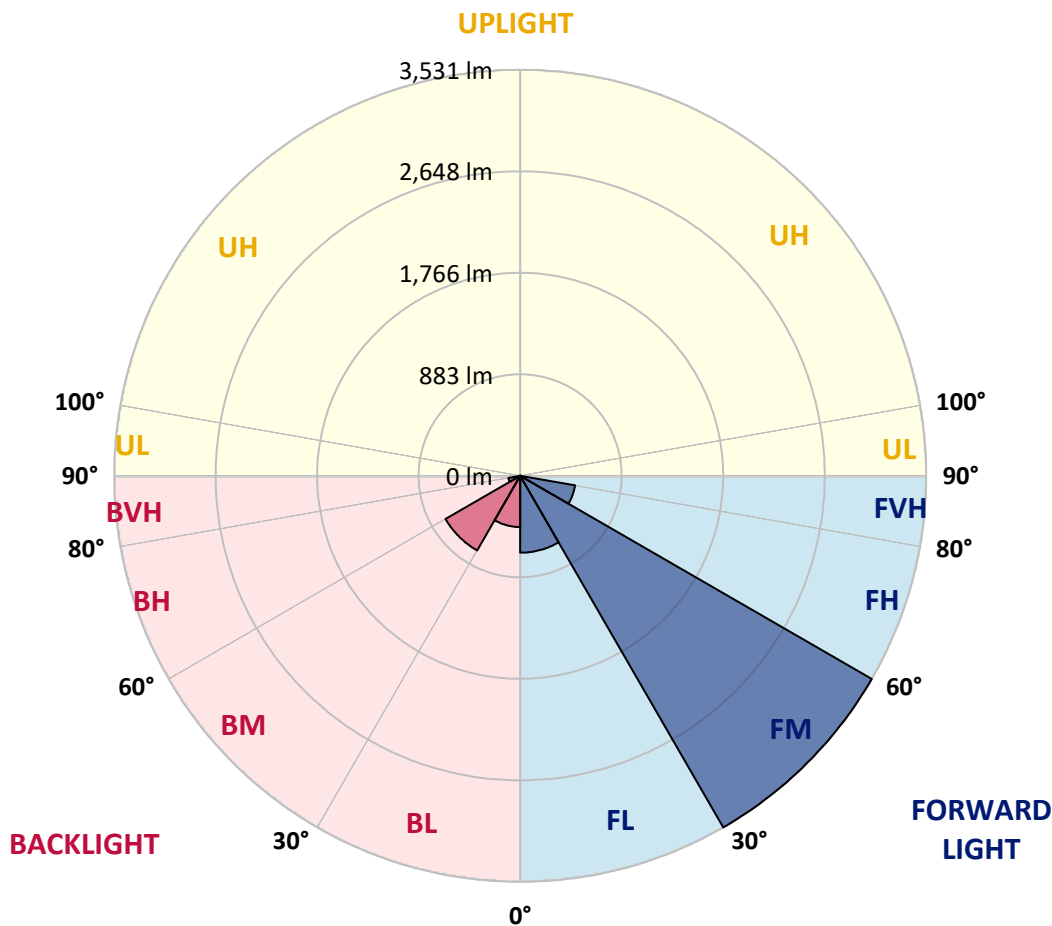


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.7	11.2			
FM (30°-60°)	3531.1	58.9			
FH (60°-80°)	485.2	8.1			G0/660
FVH (80°-90°)	4.7	0.1			G0/10
BL (0°-30°)	445.5	7.4	B1/500		
BM (30°-60°)	749.7	12.5	B1/1000		
BH (60°-80°)	103.6	1.7	B0/110		G0/110
BVH (80°-90°)	4.6	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°	48°	55°	65°	75°	85°
0°	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7
2.5°	1165.4	1159.9	1159.9	1151.2	1161.0	1156.7	1159.9	1149.0	1159.9	1143.6	1156.7
5°	1170.9	1171.9	1167.6	1173.0	1173.0	1179.6	1168.7	1178.5	1183.9	1171.9	1166.5
7.5°	1199.2	1201.4	1200.3	1196.0	1204.7	1203.6	1202.5	1194.9	1197.0	1192.7	1186.1
10°	1254.9	1253.8	1259.2	1248.3	1241.8	1249.4	1251.6	1239.6	1230.9	1227.6	1206.9
12.5°	1335.6	1322.5	1314.9	1304.0	1307.3	1296.3	1316.0	1295.3	1290.9	1271.2	1250.5
15°	1401.1	1398.9	1400.0	1382.5	1362.9	1367.3	1367.3	1356.4	1349.8	1325.8	1296.3
17.5°	1535.3	1489.5	1499.3	1477.5	1461.1	1460.0	1450.2	1452.4	1434.9	1384.7	1340.0
20°	1640.1	1620.4	1605.2	1568.1	1543.0	1550.6	1546.2	1535.3	1529.9	1464.4	1401.1
22.5°	1733.9	1740.5	1715.4	1705.5	1670.6	1673.9	1682.6	1672.8	1631.3	1563.7	1469.8
25°	1865.9	1858.3	1824.5	1812.5	1779.7	1791.7	1825.6	1817.9	1791.7	1669.5	1523.3
27.5°	2022.0	1995.8	2002.3	1947.8	1916.1	1950.0	1990.3	2028.5	1954.3	1793.9	1586.6
30°	2132.2	2104.9	2102.7	2100.6	2092.9	2132.2	2179.1	2214.0	2154.0	1918.3	1691.4
32.5°	2186.8	2193.3	2211.9	2205.3	2271.9	2352.6	2401.7	2451.9	2376.6	2121.3	1829.9
35°	2331.9	2290.4	2331.9	2336.3	2405.0	2576.3	2638.5	2758.5	2740.0	2408.3	1999.1
37.5°	2417.0	2413.7	2419.2	2460.6	2527.2	2738.9	2827.3	2920.0	2885.1	2580.7	2209.7
40°	2557.8	2566.5	2565.4	2597.0	2670.2	2861.1	2897.1	2972.4	2975.7	2819.7	2519.6
42.5°	2783.6	2748.7	2725.8	2758.5	2861.1	2967.0	3039.0	3023.7	3131.7	3109.9	2917.9
45°	2986.6	3007.3	2973.5	3028.1	3065.2	3121.9	3119.7	3152.5	3290.0	3393.6	3217.9
47.5°	3176.5	3189.6	3205.9	3243.0	3323.8	3332.5	3314.0	3299.8	3489.6	3596.6	3450.4
50°	3290.0	3302.0	3378.3	3444.9	3595.5	3615.1	3626.0	3590.0	3718.8	3730.8	3669.7
52.5°	3259.4	3272.5	3379.4	3598.8	3838.8	4018.9	3986.1	3925.0	3917.4	3964.3	3872.7
55°	2988.8	2976.8	3124.1	3465.6	3915.2	4347.3	4351.7	4287.3	4164.0	4132.4	3842.1
56°	2758.5	2711.6	2899.3	3311.8	3817.0	4319.0	4368.1	4299.3	4183.6	4041.8	3653.3
57.5°	2259.9	2304.6	2491.2	2832.7	3477.6	4114.9	4143.3	4126.9	4039.6	3801.7	3214.7
60°	1246.1	1324.7	1489.5	1907.4	2475.9	3157.9	3180.8	3314.0	3330.3	2911.3	2211.9
62.5°	529.2	520.5	691.8	999.5	1409.8	1906.3	1948.9	2085.3	2110.4	1678.3	1109.7
65°	215.0	227.0	313.2	503.0	745.3	868.6	928.6	973.3	1056.3	692.9	409.2
67.5°	141.9	140.8	184.4	287.0	401.6	387.4	387.4	409.2	378.6	282.6	176.8
70°	101.5	104.8	132.0	198.6	249.9	185.5	177.9	170.2	193.1	186.6	142.9
72.5°	66.6	70.9	88.4	118.9	129.9	101.5	101.5	122.2	159.3	150.6	116.8
75°	43.6	44.7	54.6	68.7	64.4	52.4	57.8	81.8	115.7	111.3	82.9
77.5°	29.5	30.6	37.1	44.7	36.0	29.5	31.6	41.5	56.7	56.7	43.6
80°	10.9	12.0	15.3	14.2	16.4	20.7	22.9	28.4	33.8	33.8	29.5
82.5°	0.0	1.1	3.3	7.6	12.0	16.4	18.6	21.8	25.1	28.4	27.3
85°	0.0	1.1	3.3	5.5	8.7	9.8	10.9	7.6	6.5	6.5	5.5
87.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2	1.1	1.1
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°	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7	1144.7
2.5°	1144.7	1143.6	1143.6	1140.3	1146.8	1143.6	1145.8	1144.7	1130.5	1141.4	1133.8
5°	1156.7	1164.3	1152.3	1150.1	1141.4	1144.7	1144.7	1133.8	1143.6	1142.5	1140.3
7.5°	1187.2	1174.1	1161.0	1147.9	1145.8	1142.5	1130.5	1126.1	1133.8	1125.0	1138.1
10°	1200.3	1202.5	1182.9	1165.4	1149.0	1126.1	1109.7	1099.9	1087.9	1101.0	1108.7
12.5°	1260.3	1238.5	1204.7	1177.4	1121.8	1098.8	1082.5	1078.1	1098.8	1103.2	1095.6
15°	1281.1	1277.8	1234.1	1173.0	1115.2	1087.9	1091.2	1082.5	1084.6	1073.7	1075.9
17.5°	1323.6	1286.5	1235.2	1158.9	1114.1	1107.6	1087.9	1053.0	1033.4	1024.6	1032.3
20°	1370.5	1334.5	1260.3	1164.3	1123.9	1106.5	1042.1	999.5	959.2	937.3	938.4
22.5°	1412.0	1367.3	1249.4	1166.5	1132.7	1060.6	983.2	899.1	849.0	815.1	816.2
25°	1462.2	1398.9	1253.8	1170.9	1109.7	987.5	876.2	794.4	734.4	711.5	719.1
27.5°	1490.6	1418.6	1277.8	1180.7	1049.7	883.9	763.8	687.5	652.5	641.6	640.5
30°	1575.7	1462.2	1307.3	1161.0	949.3	772.6	661.3	614.3	580.5	570.7	572.9
32.5°	1702.3	1541.9	1345.4	1109.7	846.8	673.3	594.7	559.8	528.1	509.6	507.4
35°	1808.1	1678.3	1385.8	1030.1	727.8	596.9	547.8	504.1	456.1	435.4	429.9
37.5°	2010.0	1832.1	1377.1	910.1	614.3	540.1	497.6	444.1	402.7	374.3	371.0
40°	2278.4	2012.2	1334.5	763.8	530.3	489.9	444.1	392.8	341.5	317.5	315.4
42.5°	2604.7	2232.6	1257.1	615.4	446.3	439.8	398.3	339.4	293.5	276.1	277.2
45°	2869.8	2421.4	1178.5	494.3	384.1	390.6	354.6	299.0	267.3	253.2	253.2
47.5°	3105.5	2549.0	1093.4	408.1	326.3	341.5	309.9	277.2	249.9	239.0	236.8
50°	3332.5	2678.9	1008.3	330.6	278.3	293.5	290.3	264.1	242.2	229.2	230.2
52.5°	3474.4	2699.6	900.2	270.6	243.3	260.8	271.7	247.7	223.7	216.1	213.9
55°	3300.9	2432.3	698.4	222.6	206.2	229.2	249.9	222.6	204.1	191.0	189.9
56°	3067.4	2174.8	583.8	205.1	195.3	220.4	242.2	212.8	192.1	184.4	179.0
57.5°	2597.0	1779.7	431.0	182.2	181.1	205.1	230.2	203.0	179.0	172.4	172.4
60°	1619.3	1001.7	260.8	152.8	157.1	182.2	207.3	181.1	159.3	159.3	162.6
62.5°	737.6	416.8	158.2	129.9	135.3	157.1	184.4	163.7	151.7	163.7	165.9
65°	251.0	180.0	114.6	103.7	106.9	129.9	158.2	165.9	164.8	172.4	176.8
67.5°	140.8	115.7	96.0	86.2	84.0	96.0	129.9	165.9	159.3	156.0	158.2
70°	118.9	98.2	85.1	76.4	73.1	77.5	100.4	125.5	112.4	109.1	106.9
72.5°	96.0	81.8	74.2	68.7	58.9	50.2	45.8	48.0	53.5	56.7	62.2
75°	67.7	62.2	62.2	55.7	42.6	31.6	25.1	20.7	14.2	9.8	10.9
77.5°	38.2	38.2	39.3	33.8	27.3	20.7	15.3	10.9	5.5	2.2	1.1
80°	26.2	28.4	30.6	27.3	22.9	18.6	13.1	7.6	3.3	0.0	0.0
82.5°	26.2	29.5	31.6	27.3	22.9	17.5	13.1	7.6	3.3	1.1	0.0
85°	5.5	6.5	7.6	8.7	13.1	13.1	9.8	6.5	3.3	1.1	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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)