

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: P652246

Luminaire Tested: **GALN-SA2B-840-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652246  
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-SA2B-840-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA 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: 5746.5 lumens  
Efficiency: N/A  
Efficacy: 70.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

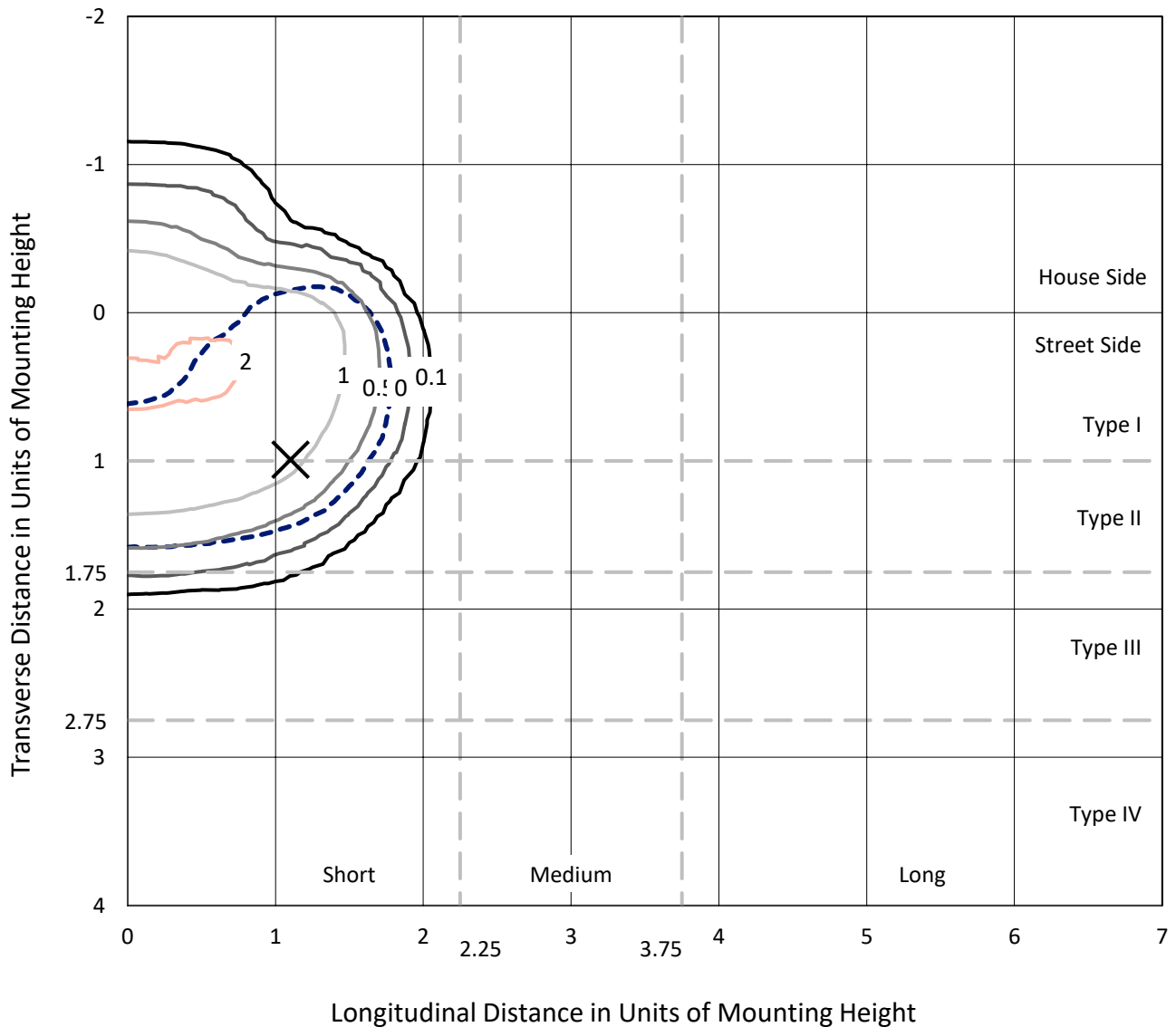
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

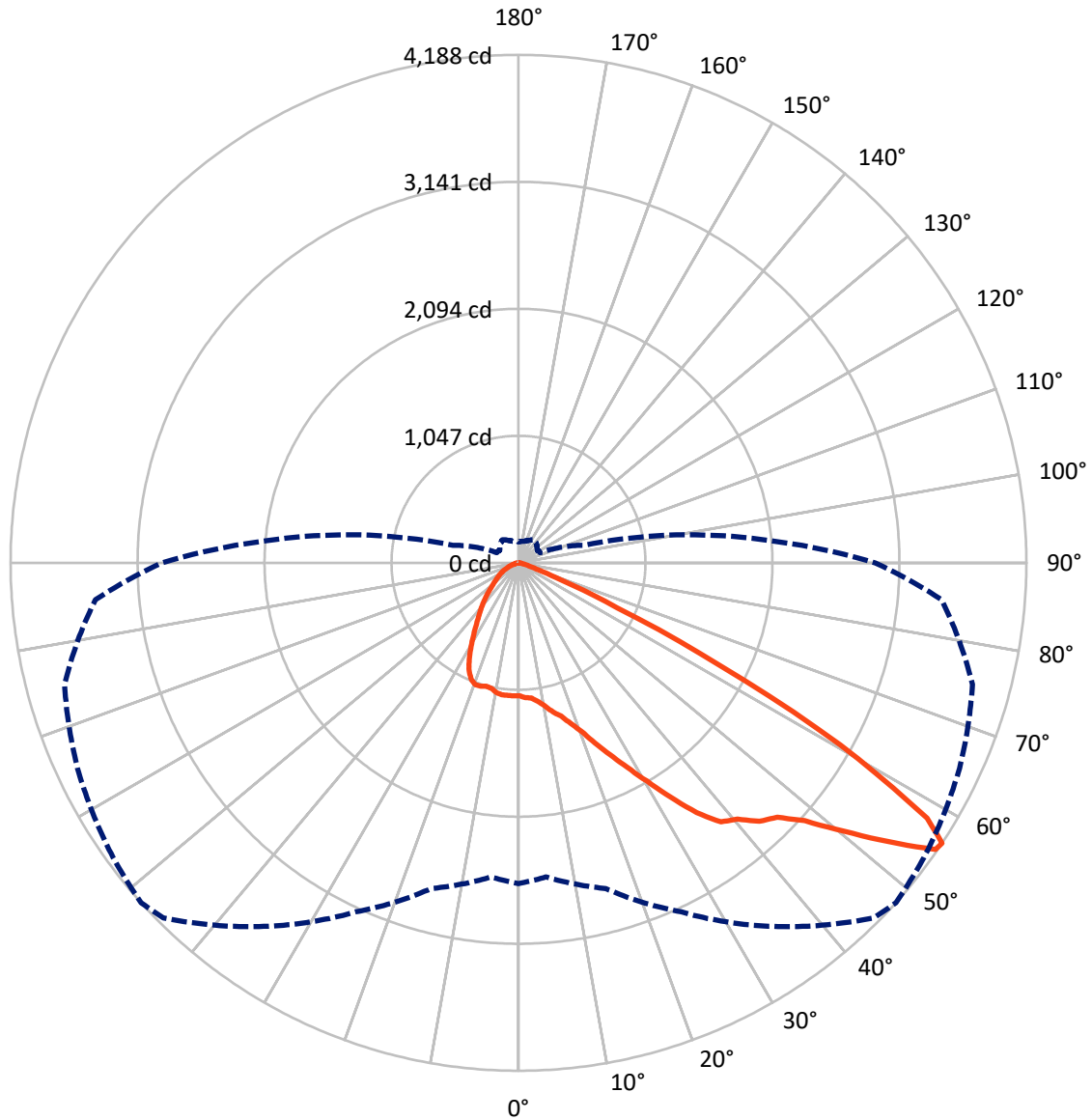
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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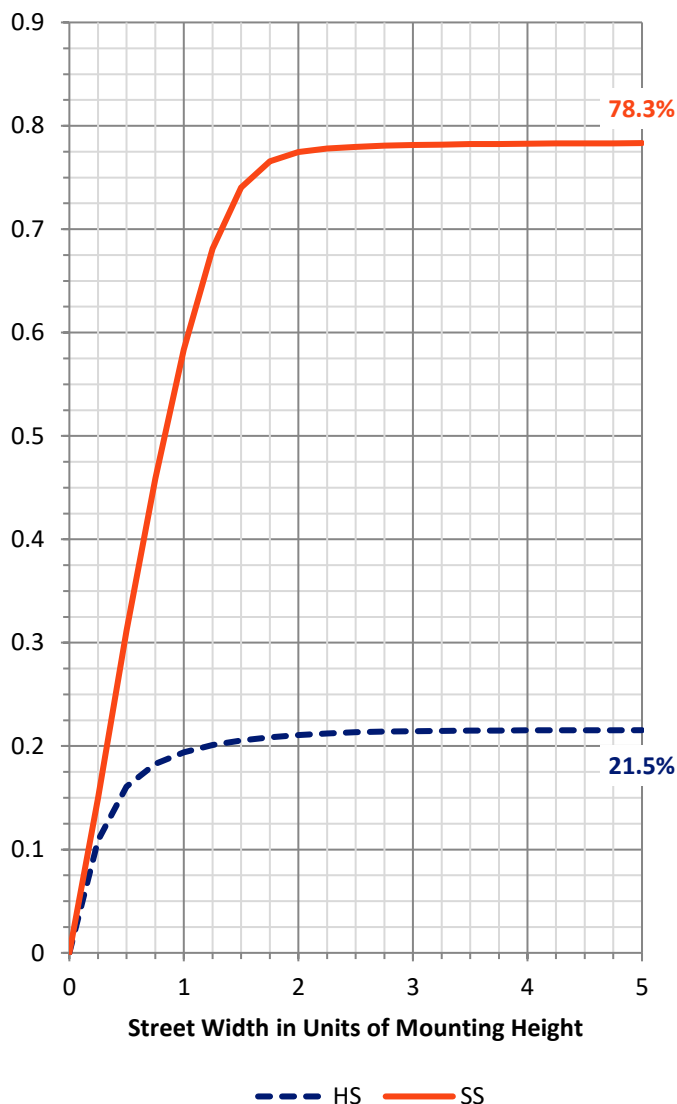
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1249.8	0.0	1249.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	4496.8	0.0	4496.8
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	5746.5	0.0	5746.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	1.9
10°-20°	341.7	5.9
20°-30°	619.8	10.8
30°-40°	973.5	16.9
40°-50°	1420.2	24.7
50°-60°	1711.0	29.8
60°-70°	501.0	8.7
70°-80°	63.6	1.1
80°-90°	8.9	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°	5746.5	100.0
0°-180°	5746.5	100.0

**Coefficient of Utilization**

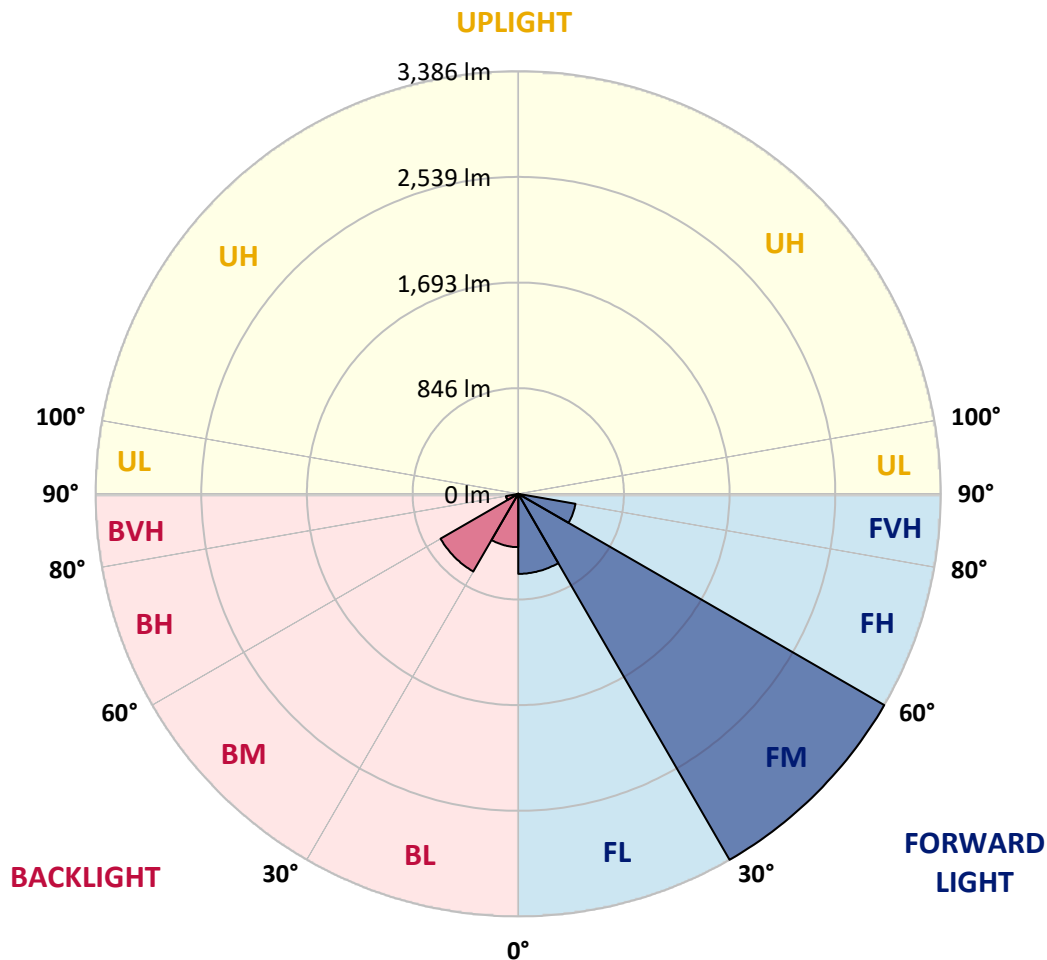


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	641.2	11.2			
FM (30°-60°)	3385.9	58.9			
FH (60°-80°)	465.2	8.1			G0/660
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	427.2	7.4	B1/500		
BM (30°-60°)	718.9	12.5	B1/1000		
BH (60°-80°)	99.3	1.7	B0/110		G0/110
BVH (80°-90°)	4.4	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°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1117.4	1112.2	1112.2	1103.9	1113.3	1109.1	1112.2	1101.8	1112.2	1096.6	1109.1
5°	1122.7	1123.7	1119.5	1124.8	1124.8	1131.1	1120.6	1130.1	1135.3	1123.7	1118.5
7.5°	1149.9	1152.0	1151.0	1146.8	1155.1	1154.1	1153.0	1145.7	1147.8	1143.6	1137.4
10°	1203.3	1202.2	1207.4	1197.0	1190.7	1198.0	1200.1	1188.6	1180.3	1177.1	1157.2
12.5°	1280.7	1268.1	1260.8	1250.4	1253.5	1243.0	1261.8	1242.0	1237.8	1218.9	1199.1
15°	1343.5	1341.4	1342.4	1325.7	1306.8	1311.0	1311.0	1300.6	1294.3	1271.3	1243.0
17.5°	1472.2	1428.3	1437.7	1416.7	1401.0	1400.0	1390.6	1392.7	1375.9	1327.8	1284.9
20°	1572.6	1553.8	1539.1	1503.5	1479.5	1486.8	1482.7	1472.2	1467.0	1404.1	1343.5
22.5°	1662.6	1668.9	1644.8	1635.4	1601.9	1605.0	1613.5	1604.0	1564.3	1499.4	1409.4
25°	1789.2	1781.9	1749.4	1737.9	1706.6	1718.1	1750.5	1743.1	1718.1	1600.8	1460.6
27.5°	1938.8	1913.7	1920.0	1867.7	1837.3	1869.8	1908.5	1945.1	1874.0	1720.2	1521.4
30°	2044.6	2018.4	2016.3	2014.2	2006.9	2044.6	2089.5	2123.0	2065.4	1839.4	1621.8
32.5°	2096.9	2103.1	2120.9	2114.6	2178.4	2255.9	2303.0	2351.1	2278.9	2034.0	1754.7
35°	2236.0	2196.3	2236.0	2240.2	2306.1	2470.4	2530.0	2645.1	2627.3	2309.2	1916.9
37.5°	2317.6	2314.4	2319.7	2359.4	2423.3	2626.3	2711.0	2799.9	2766.5	2474.6	2118.8
40°	2452.6	2460.9	2459.9	2490.3	2560.3	2743.4	2778.0	2850.1	2853.3	2703.7	2415.9
42.5°	2669.2	2635.7	2613.7	2645.1	2743.4	2844.9	2914.0	2899.3	3003.0	2982.0	2797.8
45°	2863.8	2883.7	2851.2	2903.6	2939.1	2993.5	2991.4	3022.8	3154.7	3254.1	3085.6
47.5°	3045.8	3058.4	3074.1	3109.7	3187.1	3195.5	3177.7	3164.1	3346.2	3448.7	3308.5
50°	3154.7	3166.2	3239.4	3303.3	3447.7	3466.4	3476.9	3442.4	3565.8	3577.4	3518.8
52.5°	3125.4	3137.9	3240.5	3450.8	3681.0	3853.6	3822.3	3763.6	3756.3	3801.3	3713.4
55°	2865.9	2854.4	2995.6	3323.1	3754.2	4168.6	4172.7	4111.0	3992.7	3962.5	3684.1
56°	2645.1	2600.1	2780.1	3175.6	3660.0	4141.3	4188.4	4122.5	4011.6	3875.6	3503.1
57.5°	2166.9	2209.8	2388.8	2716.3	3334.6	3945.7	3972.9	3957.2	3873.5	3645.4	3082.4
60°	1194.9	1270.2	1428.3	1829.0	2374.1	3028.0	3050.1	3177.7	3193.4	2791.6	2120.9
62.5°	507.5	499.1	663.4	958.4	1351.8	1827.9	1868.7	1999.6	2023.6	1609.3	1064.1
65°	206.1	217.7	300.3	482.3	714.6	832.8	890.5	933.3	1012.8	664.4	392.4
67.5°	136.0	135.0	176.9	275.2	385.0	371.5	371.5	392.4	363.1	271.0	169.5
70°	97.3	100.4	126.6	190.4	239.6	177.9	170.6	163.2	185.2	178.9	137.1
72.5°	63.8	68.0	84.8	114.0	124.6	97.3	97.3	117.2	152.7	144.4	111.9
75°	41.9	42.9	52.3	65.9	61.7	50.2	55.4	78.5	110.9	106.7	79.6
77.5°	28.3	29.3	35.6	42.9	34.6	28.3	30.4	39.8	54.4	54.4	41.9
80°	10.4	11.5	14.6	13.6	15.7	19.8	22.0	27.2	32.5	32.5	28.3
82.5°	0.0	1.0	3.1	7.3	11.5	15.7	17.8	20.9	24.1	27.2	26.2
85°	0.0	1.0	3.1	5.2	8.4	9.4	10.4	7.3	6.3	6.3	5.2
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	1.0	1.0
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°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1097.6	1096.6	1096.6	1093.4	1099.7	1096.6	1098.7	1097.6	1084.0	1094.5	1087.2
5°	1109.1	1116.4	1104.9	1102.8	1094.5	1097.6	1097.6	1087.2	1096.6	1095.5	1093.4
7.5°	1138.4	1125.8	1113.3	1100.7	1098.7	1095.5	1084.0	1079.8	1087.2	1078.8	1091.3
10°	1151.0	1153.0	1134.3	1117.4	1101.8	1079.8	1064.1	1054.7	1043.2	1055.7	1063.0
12.5°	1208.5	1187.6	1155.1	1129.0	1075.6	1053.7	1038.0	1033.8	1053.7	1057.8	1050.5
15°	1228.4	1225.3	1183.4	1124.8	1069.3	1043.2	1046.3	1038.0	1040.1	1029.6	1031.7
17.5°	1269.2	1233.6	1184.5	1111.2	1068.3	1062.0	1043.2	1009.7	990.9	982.5	989.9
20°	1314.1	1279.7	1208.5	1116.4	1077.7	1061.0	999.3	958.4	919.7	898.8	899.9
22.5°	1353.9	1311.0	1198.0	1118.5	1086.1	1017.0	942.8	862.2	814.0	781.6	782.6
25°	1402.1	1341.4	1202.2	1122.7	1064.1	946.9	840.2	761.7	704.2	682.2	689.5
27.5°	1429.3	1360.2	1225.3	1132.2	1006.6	847.6	732.4	659.2	625.7	615.3	614.2
30°	1510.9	1402.1	1253.5	1113.3	910.3	740.8	634.1	589.1	556.7	547.2	549.3
32.5°	1632.3	1478.5	1290.1	1064.1	812.0	645.6	570.3	536.7	506.5	488.6	486.5
35°	1733.7	1609.3	1328.9	987.8	697.9	572.3	525.3	483.4	437.4	417.5	412.3
37.5°	1927.3	1756.8	1320.5	872.6	589.1	518.0	477.1	425.9	386.1	358.9	355.7
40°	2184.7	1929.4	1279.7	732.4	508.6	469.8	425.9	376.7	327.5	304.4	302.4
42.5°	2497.6	2140.8	1205.4	590.1	428.0	421.7	381.9	325.4	281.5	264.7	265.8
45°	2751.8	2321.8	1130.1	474.0	368.3	374.6	340.0	286.7	256.3	242.7	242.7
47.5°	2977.8	2444.2	1048.4	391.3	312.9	327.5	297.1	265.8	239.6	229.2	227.1
50°	3195.5	2568.8	966.8	317.1	266.8	281.5	278.3	253.2	232.3	219.8	220.8
52.5°	3331.5	2588.6	863.2	259.4	233.3	250.1	260.5	237.5	214.5	207.1	205.1
55°	3165.1	2332.3	669.7	213.4	197.7	219.8	239.6	213.4	195.7	183.1	182.1
56°	2941.2	2085.3	559.8	196.7	187.3	211.3	232.3	204.0	184.2	176.9	171.6
57.5°	2490.3	1706.6	413.3	174.8	173.7	196.7	220.8	194.6	171.6	165.3	165.3
60°	1552.7	960.5	250.1	146.5	150.7	174.8	198.8	173.7	152.7	152.7	155.9
62.5°	707.3	399.7	151.7	124.6	129.8	150.7	176.9	156.9	145.4	156.9	159.0
65°	240.7	172.7	109.8	99.4	102.5	124.6	151.7	159.0	158.0	165.3	169.5
67.5°	135.0	110.9	92.1	82.7	80.6	92.1	124.6	159.0	152.7	149.6	151.7
70°	114.0	94.2	81.6	73.3	70.1	74.3	96.3	120.3	107.7	104.6	102.5
72.5°	92.1	78.5	71.1	65.9	56.5	48.1	44.0	46.0	51.3	54.4	59.6
75°	64.8	59.6	59.6	53.4	40.8	30.4	24.1	19.8	13.6	9.4	10.4
77.5°	36.6	36.6	37.7	32.5	26.2	19.8	14.6	10.4	5.2	2.1	1.0
80°	25.1	27.2	29.3	26.2	22.0	17.8	12.5	7.3	3.1	0.0	0.0
82.5°	25.1	28.3	30.4	26.2	22.0	16.7	12.5	7.3	3.1	1.0	0.0
85°	5.2	6.3	7.3	8.4	12.5	12.5	9.4	6.3	3.1	1.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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)