

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: P527281

Luminaire Tested: **GALN-SA2B-735-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527281  
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-735-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 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: 6366 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

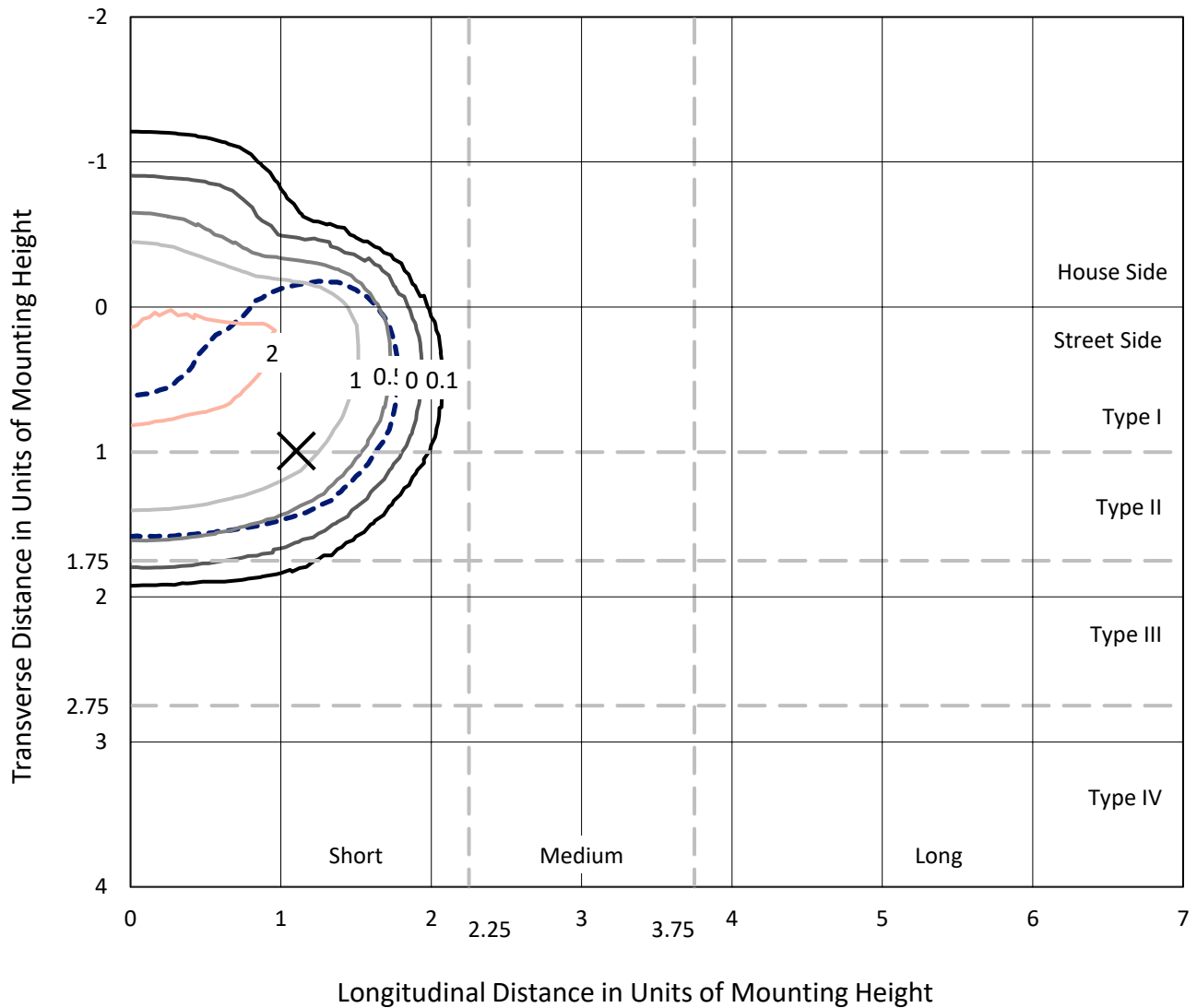
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

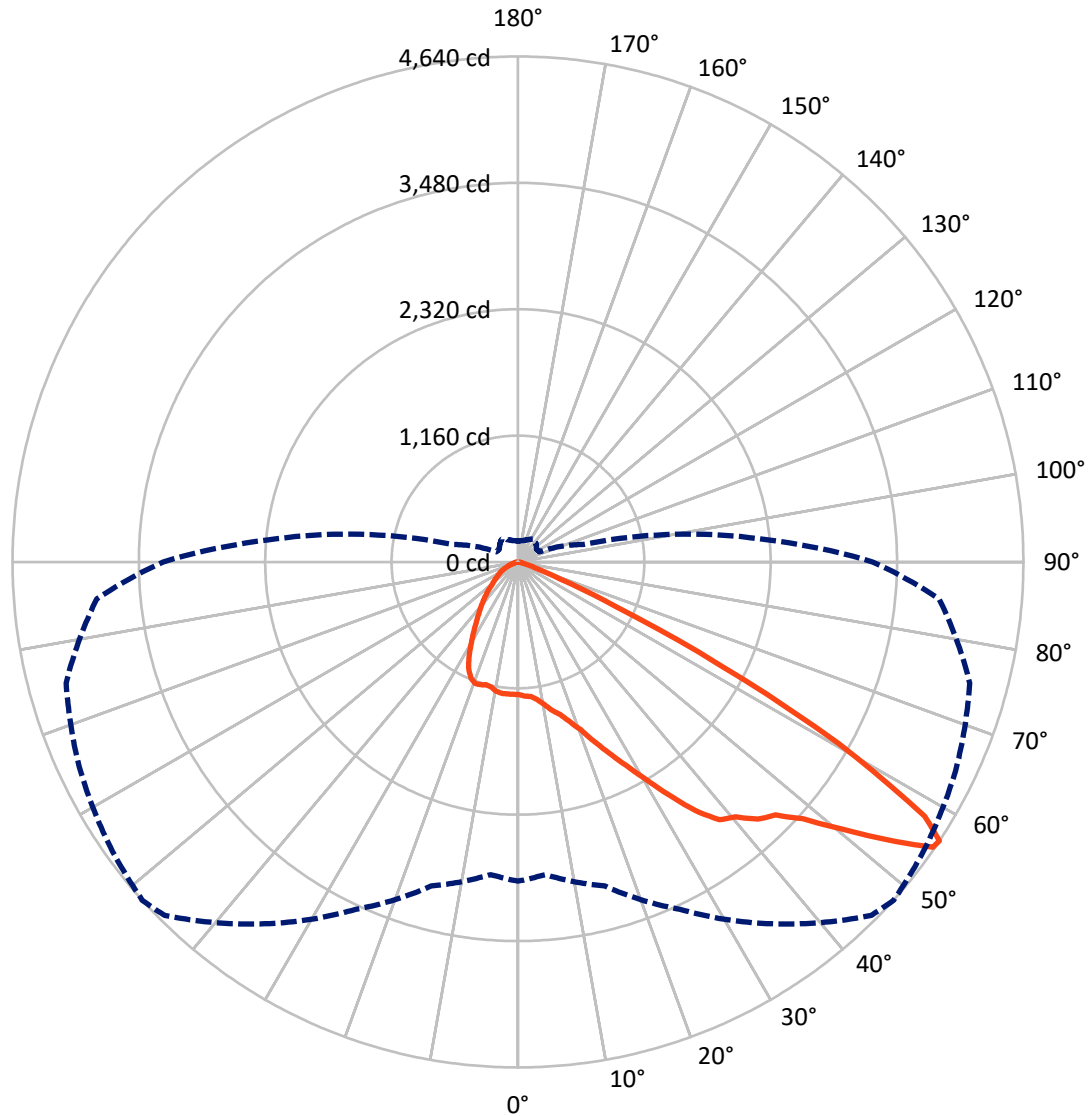
✕ Max cd  
 - - - 1/2 Max cd



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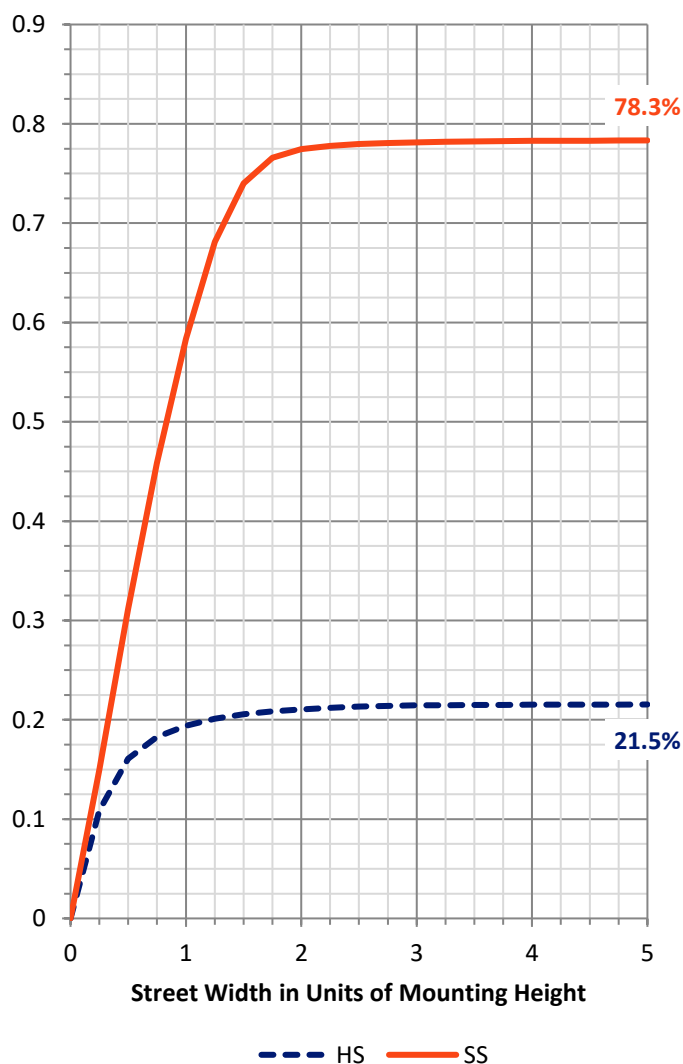
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1384.5	0.0	1384.5
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	4981.5	0.0	4981.5
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	6366.0	0.0	6366.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.4	1.9
10°-20°	378.5	5.9
20°-30°	686.6	10.8
30°-40°	1078.5	16.9
40°-50°	1573.3	24.7
50°-60°	1895.5	29.8
60°-70°	555.0	8.7
70°-80°	70.4	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°	6366.0	100.0
0°-180°	6366.0	100.0

**Coefficient of Utilization**



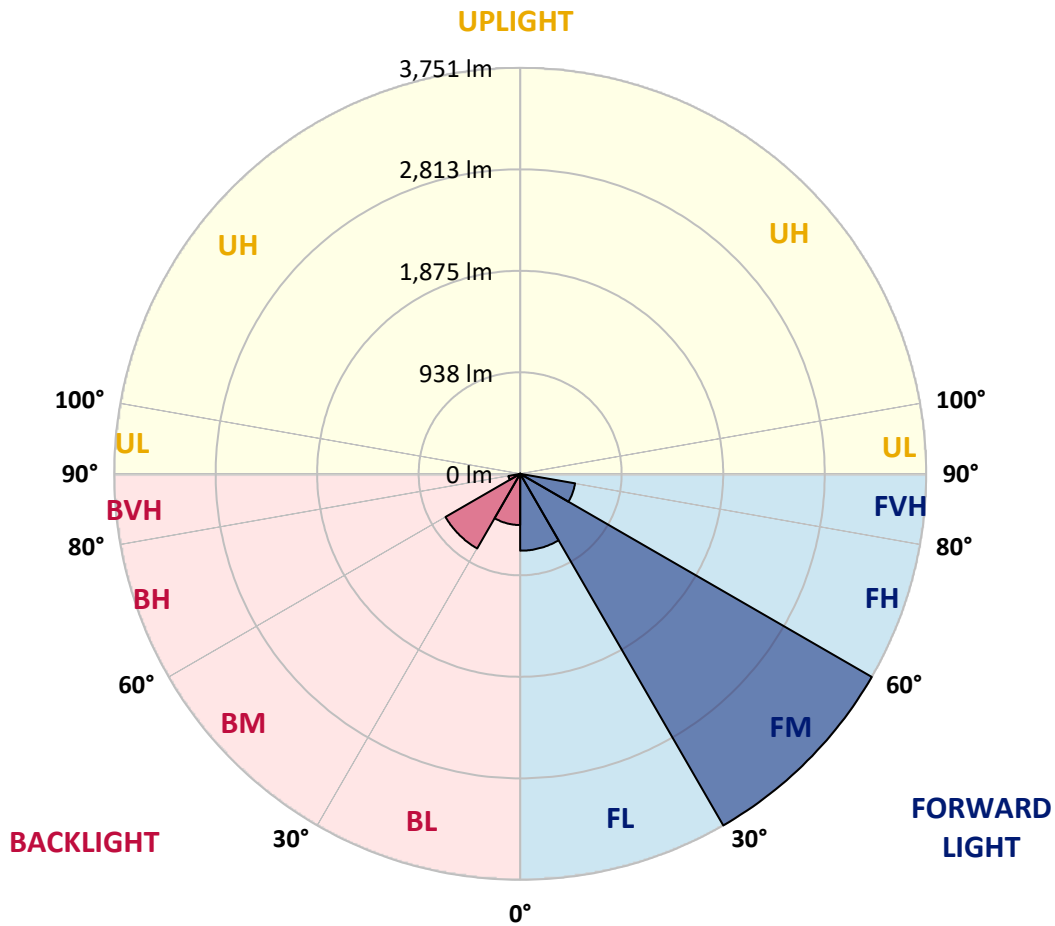
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.3	11.2			
FM (30°-60°)	3750.9	58.9			
FH (60°-80°)	515.4	8.1			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	473.2	7.4	B1/500		
BM (30°-60°)	796.3	12.5	B1/1000		
BH (60°-80°)	110.0	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°	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9
2.5°	1237.9	1232.1	1232.1	1222.9	1233.3	1228.7	1232.1	1220.5	1232.1	1214.7	1228.7
5°	1243.7	1244.9	1240.3	1246.0	1246.0	1253.0	1241.4	1251.8	1257.6	1244.9	1239.1
7.5°	1273.9	1276.2	1275.0	1270.4	1279.7	1278.5	1277.3	1269.2	1271.5	1266.9	1260.0
10°	1333.0	1331.8	1337.6	1326.0	1319.1	1327.2	1329.5	1316.8	1307.5	1304.0	1282.0
12.5°	1418.8	1404.8	1396.7	1385.1	1388.6	1377.0	1397.9	1375.9	1371.2	1350.4	1328.3
15°	1488.3	1486.0	1487.1	1468.6	1447.7	1452.4	1452.4	1440.8	1433.8	1408.3	1377.0
17.5°	1630.9	1582.2	1592.6	1569.4	1552.1	1550.9	1540.5	1542.8	1524.2	1470.9	1423.4
20°	1742.1	1721.3	1705.1	1665.6	1639.0	1647.1	1642.5	1630.9	1625.1	1555.5	1488.3
22.5°	1841.8	1848.8	1822.1	1811.7	1774.6	1778.1	1787.4	1776.9	1732.9	1661.0	1561.3
25°	1982.1	1974.0	1938.0	1925.3	1890.5	1903.3	1939.2	1931.1	1903.3	1773.4	1618.1
27.5°	2147.8	2120.0	2127.0	2069.0	2035.4	2071.3	2114.2	2154.8	2076.0	1905.6	1685.3
30°	2264.9	2235.9	2233.6	2231.3	2223.2	2264.9	2314.7	2351.8	2288.1	2037.7	1796.6
32.5°	2322.9	2329.8	2349.5	2342.6	2413.3	2499.0	2551.2	2604.5	2524.5	2253.3	1943.8
35°	2477.0	2433.0	2477.0	2481.7	2554.7	2736.7	2802.7	2930.2	2910.5	2558.2	2123.5
37.5°	2567.4	2564.0	2569.8	2613.8	2684.5	2909.4	3003.3	3101.8	3064.7	2741.3	2347.2
40°	2717.0	2726.2	2725.1	2758.7	2836.3	3039.2	3077.4	3157.4	3160.9	2995.1	2676.4
42.5°	2956.9	2919.8	2895.5	2930.2	3039.2	3151.6	3228.1	3211.9	3326.7	3303.5	3099.5
45°	3172.5	3194.5	3158.6	3216.5	3255.9	3316.2	3313.9	3348.7	3494.7	3604.8	3418.2
47.5°	3374.2	3388.1	3405.5	3444.9	3530.7	3539.9	3520.2	3505.2	3706.8	3820.4	3665.1
50°	3494.7	3507.5	3588.6	3659.3	3819.3	3840.1	3851.7	3813.5	3950.3	3963.0	3898.1
52.5°	3462.3	3476.2	3589.8	3822.8	4077.8	4269.0	4234.2	4169.3	4161.2	4211.1	4113.7
55°	3174.8	3162.1	3318.5	3681.3	4158.9	4617.9	4622.5	4554.2	4423.2	4389.6	4081.2
56°	2930.2	2880.4	3079.8	3517.9	4054.6	4587.8	4639.9	4566.9	4444.0	4293.4	3880.7
57.5°	2400.5	2448.0	2646.3	3009.1	3694.1	4371.0	4401.1	4383.8	4291.0	4038.3	3414.7
60°	1323.7	1407.2	1582.2	2026.1	2630.0	3354.5	3378.8	3520.2	3537.6	3092.5	2349.5
62.5°	562.2	552.9	734.9	1061.7	1497.6	2025.0	2070.2	2215.1	2241.7	1782.7	1178.8
65°	228.3	241.1	332.7	534.4	791.7	922.7	986.4	1033.9	1122.0	736.0	434.7
67.5°	150.7	149.5	195.9	304.8	426.6	411.5	411.5	434.7	402.2	300.2	187.8
70°	107.8	111.3	140.3	211.0	265.4	197.0	188.9	180.8	205.2	198.2	151.8
72.5°	70.7	75.3	93.9	126.3	137.9	107.8	107.8	129.8	169.2	160.0	124.0
75°	46.4	47.5	58.0	73.0	68.4	55.6	61.4	86.9	122.9	118.2	88.1
77.5°	31.3	32.5	39.4	47.5	38.3	31.3	33.6	44.0	60.3	60.3	46.4
80°	11.6	12.8	16.2	15.1	17.4	22.0	24.3	30.1	35.9	35.9	31.3
82.5°	0.0	1.2	3.5	8.1	12.8	17.4	19.7	23.2	26.7	30.1	29.0
85°	0.0	1.2	3.5	5.8	9.3	10.4	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°	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9
2.5°	1215.9	1214.7	1214.7	1211.3	1218.2	1214.7	1217.1	1215.9	1200.8	1212.4	1204.3
5°	1228.7	1236.8	1224.0	1221.7	1212.4	1215.9	1215.9	1204.3	1214.7	1213.6	1211.3
7.5°	1261.1	1247.2	1233.3	1219.4	1217.1	1213.6	1200.8	1196.2	1204.3	1195.0	1209.0
10°	1275.0	1277.3	1256.5	1237.9	1220.5	1196.2	1178.8	1168.4	1155.6	1169.5	1177.7
12.5°	1338.8	1315.6	1279.7	1250.7	1191.6	1167.2	1149.8	1145.2	1167.2	1171.9	1163.7
15°	1360.8	1357.3	1311.0	1246.0	1184.6	1155.6	1159.1	1149.8	1152.2	1140.6	1142.9
17.5°	1406.0	1366.6	1312.1	1231.0	1183.5	1176.5	1155.6	1118.5	1097.7	1088.4	1096.5
20°	1455.8	1417.6	1338.8	1236.8	1193.9	1175.3	1107.0	1061.7	1018.9	995.7	996.8
22.5°	1499.9	1452.4	1327.2	1239.1	1203.2	1126.7	1044.4	955.1	901.8	865.9	867.0
25°	1553.2	1486.0	1331.8	1243.7	1178.8	1049.0	930.8	843.8	780.1	755.7	763.9
27.5°	1583.3	1506.8	1357.3	1254.2	1115.1	938.9	811.4	730.2	693.1	681.6	680.4
30°	1673.8	1553.2	1388.6	1233.3	1008.4	820.7	702.4	652.6	616.6	606.2	608.5
32.5°	1808.2	1637.8	1429.2	1178.8	899.5	715.2	631.7	594.6	561.0	541.3	539.0
35°	1920.6	1782.7	1472.1	1094.2	773.1	634.0	581.9	535.5	484.5	462.5	456.7
37.5°	2135.1	1946.1	1462.8	966.7	652.6	573.8	528.6	471.8	427.7	397.6	394.1
40°	2420.2	2137.4	1417.6	811.4	563.3	520.4	471.8	417.3	362.8	337.3	335.0
42.5°	2766.8	2371.5	1335.3	653.7	474.1	467.1	423.1	360.5	311.8	293.3	294.4
45°	3048.5	2572.1	1251.8	525.1	408.0	415.0	376.7	317.6	284.0	268.9	268.9
47.5°	3298.8	2707.7	1161.4	433.5	346.6	362.8	329.2	294.4	265.4	253.8	251.5
50°	3539.9	2845.6	1071.0	351.2	295.6	311.8	308.3	280.5	257.3	243.4	244.6
52.5°	3690.6	2867.6	956.3	287.5	258.5	277.0	288.6	263.1	237.6	229.5	227.2
55°	3506.3	2583.7	741.8	236.5	219.1	243.4	265.4	236.5	216.8	202.8	201.7
56°	3258.3	2310.1	620.1	217.9	207.5	234.1	257.3	226.0	204.0	195.9	190.1
57.5°	2758.7	1890.5	457.8	193.6	192.4	217.9	244.6	215.6	190.1	183.1	183.1
60°	1720.1	1064.1	277.0	162.3	166.9	193.6	220.2	192.4	169.2	169.2	172.7
62.5°	783.6	442.8	168.1	137.9	143.7	166.9	195.9	173.9	161.1	173.9	176.2
65°	266.6	191.3	121.7	110.1	113.6	137.9	168.1	176.2	175.0	183.1	187.8
67.5°	149.5	122.9	102.0	91.6	89.3	102.0	137.9	176.2	169.2	165.8	168.1
70°	126.3	104.3	90.4	81.1	77.7	82.3	106.6	133.3	119.4	115.9	113.6
72.5°	102.0	86.9	78.8	73.0	62.6	53.3	48.7	51.0	56.8	60.3	66.1
75°	71.9	66.1	66.1	59.1	45.2	33.6	26.7	22.0	15.1	10.4	11.6
77.5°	40.6	40.6	41.7	35.9	29.0	22.0	16.2	11.6	5.8	2.3	1.2
80°	27.8	30.1	32.5	29.0	24.3	19.7	13.9	8.1	3.5	0.0	0.0
82.5°	27.8	31.3	33.6	29.0	24.3	18.5	13.9	8.1	3.5	1.2	0.0
85°	5.8	7.0	8.1	9.3	13.9	13.9	10.4	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)