

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: P528449

Luminaire Tested: **GALN-SA3C-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-735-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12930 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

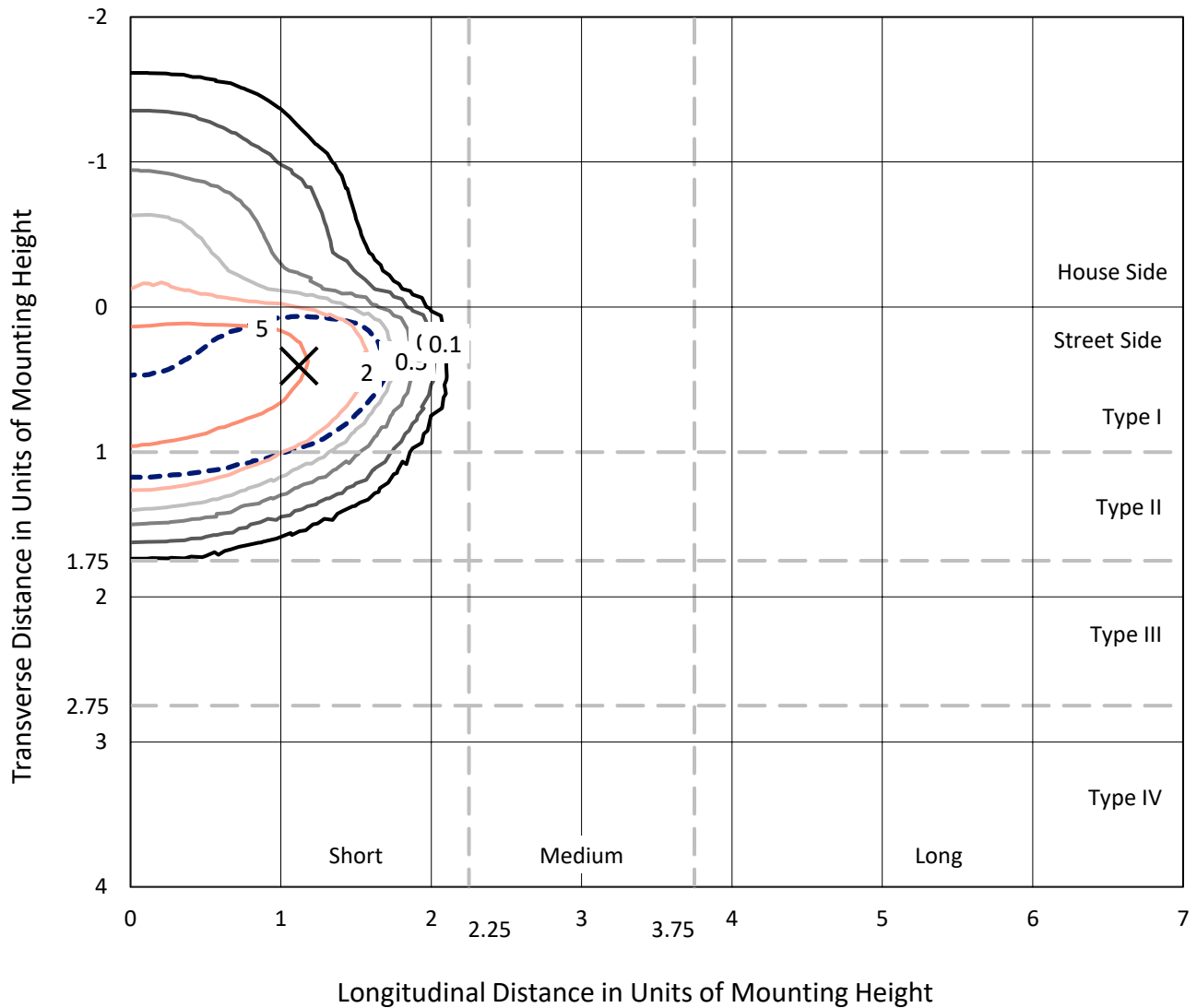
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

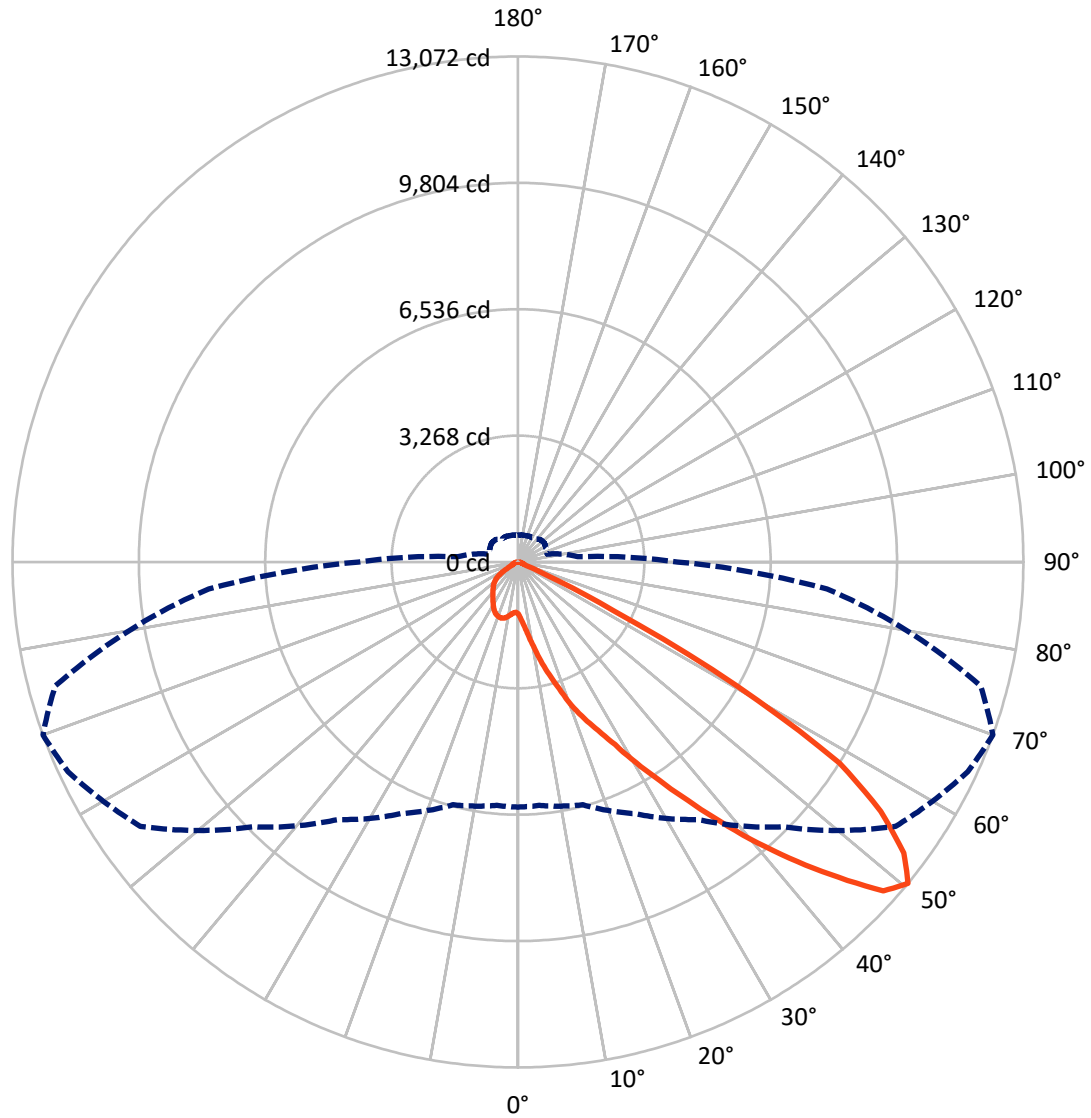
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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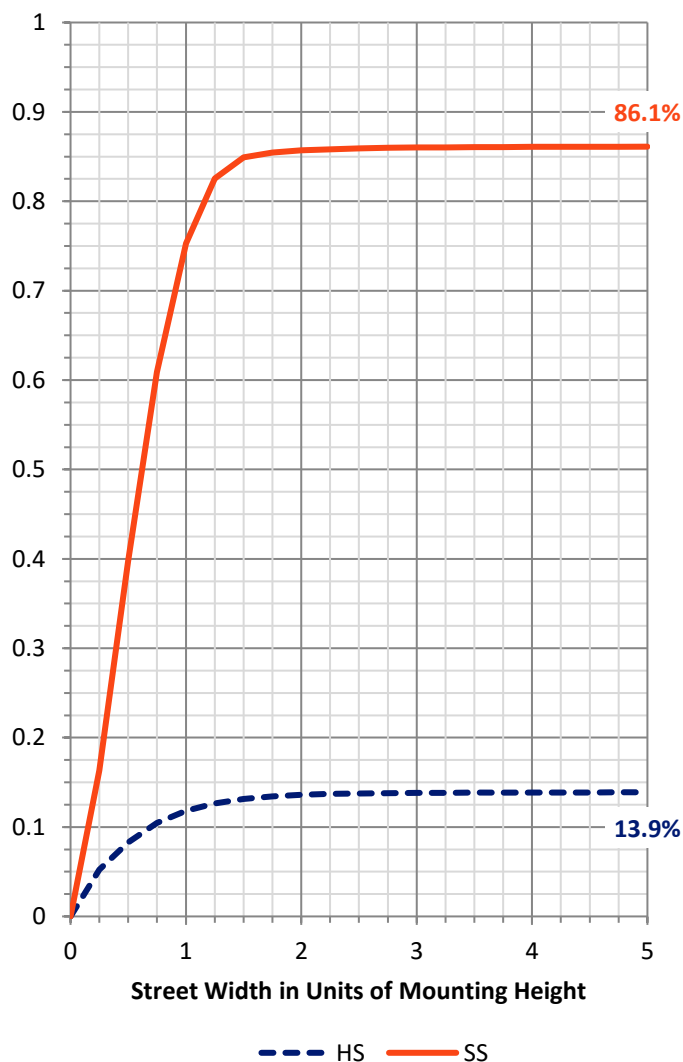
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1805.8	0.0	1805.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	11124.3	0.0	11124.3
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	12930.0	0.0	12930.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.2	1.3
10°-20°	753.3	5.8
20°-30°	1580.4	12.2
30°-40°	2724.0	21.1
40°-50°	3981.2	30.8
50°-60°	3100.7	24.0
60°-70°	525.4	4.1
70°-80°	72.2	0.6
80°-90°	18.7	0.1
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°	12930.0	100.0
0°-180°	12930.0	100.0

**Coefficient of Utilization**



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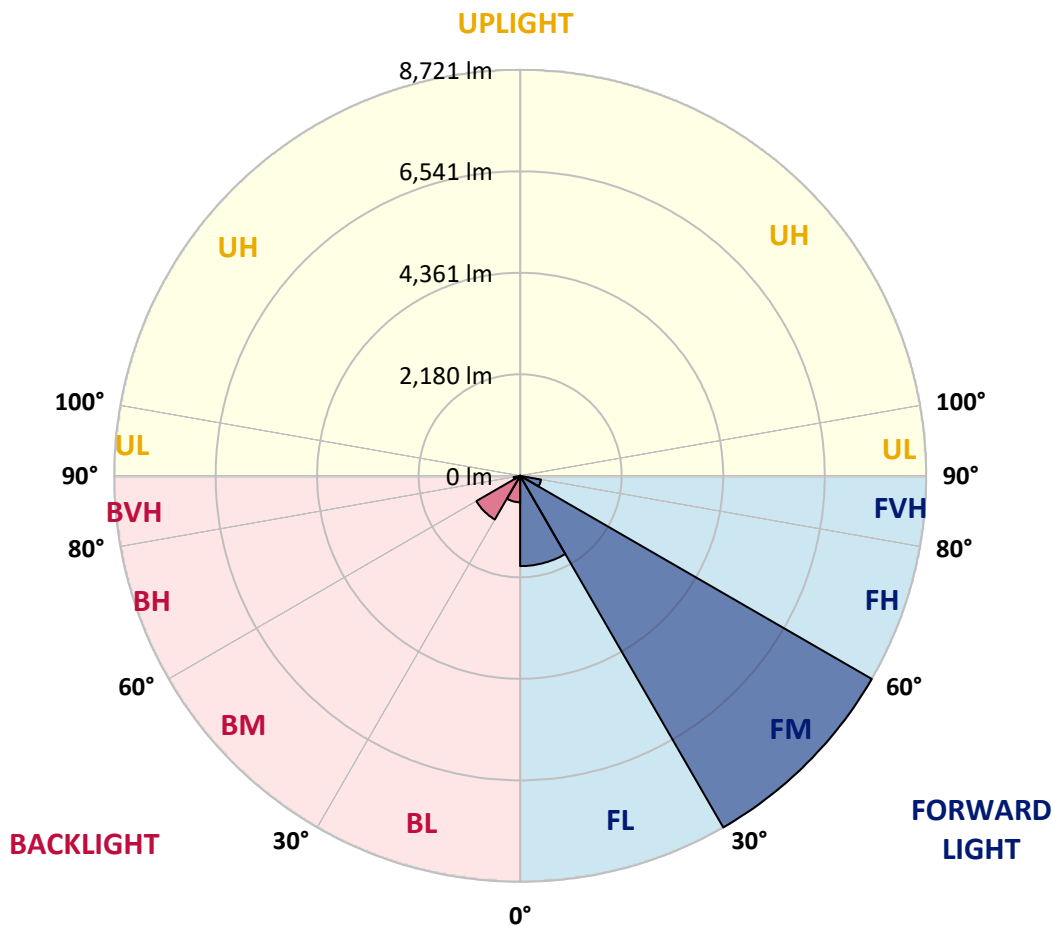
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1939.7	15.0			
FM (30°-60°)	8721.1	67.4			
FH (60°-80°)	454.9	3.5			G0/660
FVH (80°-90°)	8.6	0.1			G0/10
BL (0°-30°)	568.2	4.4	B2/1000		
BM (30°-60°)	1084.8	8.4	B2/2500		
BH (60°-80°)	142.6	1.1	B1/500		G1/500
BVH (80°-90°)	10.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3
2.5°	1753.8	1741.1	1713.4	1662.4	1641.2	1590.1	1560.4	1503.0	1466.8	1426.5	1381.8
5°	2470.3	2404.4	2364.0	2306.6	2138.6	2034.5	1862.3	1715.6	1647.5	1573.1	1471.1
7.5°	3210.1	3167.5	3112.3	2989.0	2874.2	2657.3	2361.8	2038.7	1900.5	1773.0	1571.0
10°	3822.3	3703.3	3696.9	3605.5	3480.0	3220.7	2865.7	2463.9	2217.3	2030.2	1713.4
12.5°	4249.6	4141.2	4190.1	4179.4	4062.5	3824.4	3414.1	2882.7	2625.4	2334.2	1860.1
15°	4638.6	4594.0	4579.1	4566.4	4519.6	4343.1	3975.4	3392.9	3020.9	2670.1	2025.9
17.5°	5019.2	4904.4	4959.6	4970.3	4966.0	4806.6	4462.2	3877.6	3439.6	3025.1	2200.3
20°	5357.2	5367.8	5293.4	5278.5	5265.8	5259.4	4923.5	4358.0	3954.1	3397.1	2427.7
22.5°	5790.8	5716.4	5782.3	5739.8	5656.9	5605.9	5348.7	4783.2	4400.5	3845.7	2659.5
25°	6303.2	6362.7	6207.5	6190.5	6099.1	5922.7	5690.9	5259.4	4830.0	4262.4	2910.3
27.5°	6934.6	6830.4	6790.0	6696.5	6530.6	6456.2	6184.1	5750.5	5348.7	4700.3	3152.7
30°	7476.7	7449.0	7247.1	7136.5	6992.0	6989.8	6609.3	6415.9	6024.7	5386.9	3486.4
32.5°	7918.8	7797.7	7723.3	7646.7	7529.8	7561.7	7240.7	7138.6	6745.4	6024.7	3879.7
35°	8214.3	8127.2	8082.5	7965.6	7931.6	8074.0	7940.1	7897.6	7574.4	6921.8	4341.0
37.5°	8307.9	8335.5	8327.0	8180.3	8252.6	8637.4	8809.6	8699.0	8529.0	7867.8	4840.6
40°	8390.8	8409.9	8367.4	8539.6	8745.8	9183.7	9806.6	9623.8	9560.0	8826.6	5535.7
42.5°	8437.5	8422.7	8422.7	8720.3	9032.8	9912.9	10769.6	10648.4	10599.6	9847.0	6339.3
45°	8235.6	8091.0	8246.2	8650.1	9279.4	10272.2	11539.2	11707.1	11637.0	11060.9	7279.0
47.5°	7480.9	7570.2	7657.4	8197.3	8979.6	10161.6	12011.1	12583.0	12712.7	12081.3	7895.5
50°	6339.3	6320.2	6500.9	7181.2	8131.4	9685.4	11919.7	12836.0	13071.9	12387.4	8025.1
52.5°	4611.0	4751.3	4946.9	5622.9	6749.6	8452.4	10739.9	12183.3	12497.9	12011.1	7940.1
55°	2685.0	2529.8	2969.8	3541.7	4604.6	6375.5	9079.6	10799.4	11381.9	11326.6	7510.7
57.5°	1075.7	1041.7	1192.6	1607.2	2402.2	3952.0	6602.9	8873.4	9806.6	10374.2	6600.8
60°	471.9	461.3	542.1	654.8	982.1	1821.9	3611.8	5518.7	6492.4	7249.2	4543.0
62.5°	340.1	335.9	376.3	416.7	518.7	792.9	1517.9	2223.7	2772.1	3348.2	2034.5
65°	274.2	284.9	312.5	333.8	382.7	440.1	535.7	618.6	758.9	786.6	448.6
67.5°	223.2	231.7	257.2	280.6	289.1	238.1	246.6	216.8	216.8	193.5	155.2
70°	163.7	165.8	195.6	223.2	178.6	95.7	167.9	167.9	150.9	144.6	131.8
72.5°	121.2	123.3	146.7	138.2	70.2	59.5	123.3	136.1	123.3	116.9	106.3
75°	89.3	91.4	76.5	31.9	29.8	38.3	72.3	93.5	89.3	87.2	80.8
77.5°	17.0	12.8	10.6	14.9	21.3	31.9	46.8	57.4	59.5	63.8	59.5
80°	2.1	2.1	6.4	12.8	23.4	34.0	48.9	55.3	57.4	59.5	55.3
82.5°	0.0	2.1	6.4	12.8	23.4	31.9	42.5	48.9	53.1	55.3	53.1
85°	0.0	2.1	4.3	10.6	19.1	23.4	21.3	14.9	12.8	14.9	10.6
87.5°	0.0	0.0	2.1	2.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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°	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3	1339.3
2.5°	1356.3	1347.8	1318.0	1286.1	1258.5	1271.3	1258.5	1247.9	1252.1	1247.9	1243.6
5°	1430.7	1392.4	1328.7	1301.0	1277.6	1275.5	1269.1	1267.0	1269.1	1269.1	1250.0
7.5°	1500.9	1439.2	1371.2	1341.4	1313.8	1315.9	1301.0	1301.0	1298.9	1288.3	1284.0
10°	1607.2	1524.2	1437.1	1383.9	1349.9	1343.5	1328.7	1313.8	1313.8	1313.8	1292.5
12.5°	1724.1	1619.9	1500.9	1439.2	1398.8	1366.9	1343.5	1339.3	1315.9	1311.7	1301.0
15°	1826.1	1694.3	1543.4	1458.3	1407.3	1364.8	1328.7	1305.3	1294.7	1288.3	1279.8
17.5°	1926.0	1758.1	1566.8	1458.3	1403.1	1354.2	1315.9	1294.7	1269.1	1273.4	1256.4
20°	2060.0	1826.1	1573.1	1430.7	1362.7	1315.9	1264.9	1254.3	1239.4	1226.6	1230.9
22.5°	2189.6	1875.0	1554.0	1396.7	1298.9	1243.6	1218.1	1205.4	1199.0	1188.4	1173.5
25°	2306.6	1928.2	1524.2	1335.0	1230.9	1190.5	1167.1	1165.0	1150.1	1150.1	1122.5
27.5°	2425.6	1947.3	1473.2	1262.8	1171.4	1148.0	1137.3	1133.1	1126.7	1111.8	1092.7
30°	2561.7	1953.7	1398.8	1188.4	1118.2	1092.7	1107.6	1118.2	1090.6	1062.9	1071.4
32.5°	2674.3	1938.8	1309.5	1118.2	1079.9	1067.2	1096.9	1107.6	1075.7	1045.9	1031.0
35°	2810.4	1902.6	1222.4	1062.9	1041.7	1067.2	1092.7	1092.7	1028.9	992.8	984.3
37.5°	3016.6	1862.3	1141.6	1016.2	1001.3	1054.4	1088.4	1065.1	965.1	920.5	909.9
40°	3237.7	1836.7	1062.9	969.4	980.0	1033.2	1052.3	980.0	878.0	850.3	841.8
42.5°	3558.7	1785.7	992.8	929.0	960.9	1003.4	1003.4	873.7	835.5	820.6	818.5
45°	3958.4	1749.6	931.1	895.0	933.3	943.9	909.9	818.5	790.8	786.6	788.7
47.5°	4153.9	1679.4	867.4	854.6	882.2	884.4	795.1	773.8	750.4	744.1	739.8
50°	4124.2	1554.0	784.4	801.5	839.7	818.5	724.9	729.2	707.9	705.8	695.2
52.5°	3915.8	1356.3	701.5	741.9	784.4	722.8	667.5	663.3	663.3	635.6	625.0
55°	3471.5	1092.7	601.6	652.6	703.7	608.0	593.1	588.9	578.2	552.7	546.3
57.5°	2748.7	801.5	452.8	508.1	597.4	516.6	514.5	495.3	467.7	448.6	448.6
60°	1634.8	461.3	284.9	310.4	395.4	418.8	465.6	457.1	410.3	380.5	372.0
62.5°	746.2	238.1	180.7	185.0	212.6	272.1	365.6	423.0	357.1	306.1	301.9
65°	250.9	176.4	148.8	142.4	146.7	163.7	219.0	299.7	284.9	236.0	227.5
67.5°	153.1	157.3	140.3	129.7	129.7	127.6	125.4	136.1	167.9	163.7	165.8
70°	131.8	144.6	129.7	116.9	112.7	106.3	89.3	74.4	63.8	74.4	78.7
72.5°	106.3	114.8	110.5	99.9	89.3	80.8	63.8	48.9	36.1	31.9	31.9
75°	78.7	85.0	89.3	76.5	68.0	57.4	46.8	31.9	19.1	12.8	12.8
77.5°	57.4	63.8	65.9	59.5	51.0	40.4	29.8	21.3	10.6	4.3	4.3
80°	48.9	57.4	63.8	59.5	53.1	38.3	27.6	14.9	8.5	2.1	2.1
82.5°	46.8	57.4	63.8	57.4	51.0	36.1	27.6	17.0	6.4	2.1	2.1
85°	10.6	14.9	19.1	23.4	27.6	27.6	21.3	12.8	6.4	2.1	2.1
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	2.1	2.1	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)