

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: P529151

Luminaire Tested: **GALN-SA4B-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529151  
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-SA4B-735-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 800mA 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: 13868 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

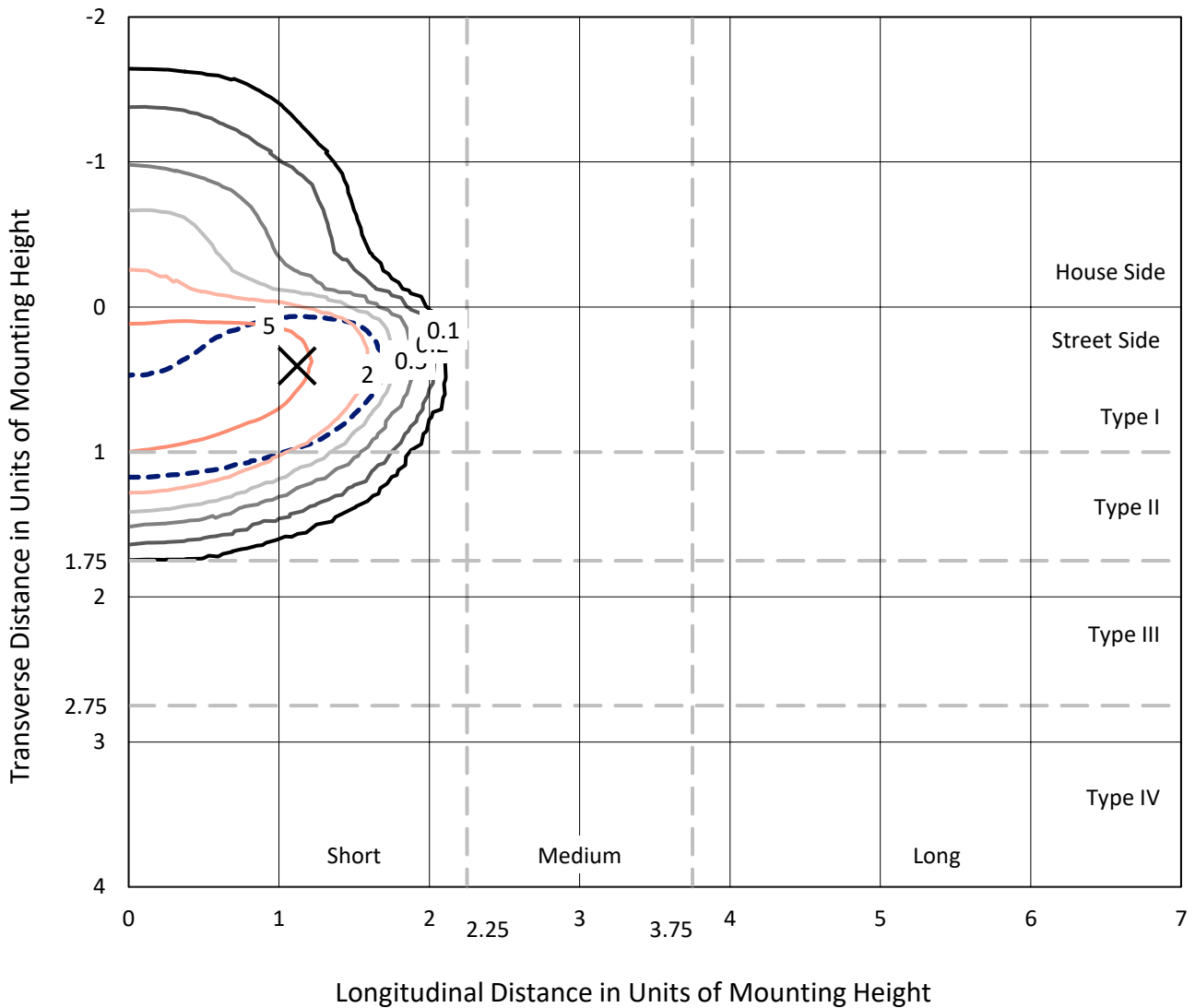
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

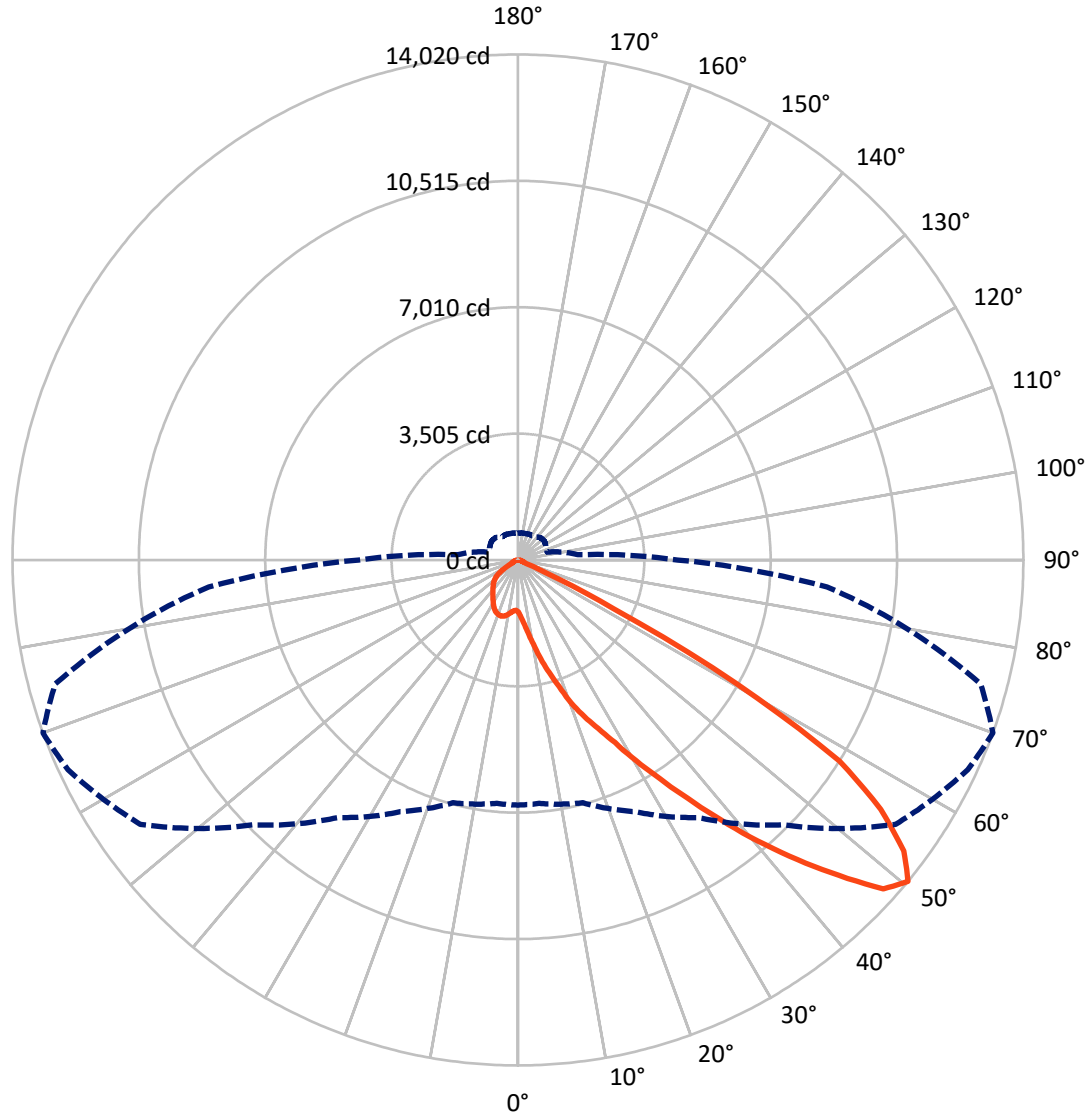
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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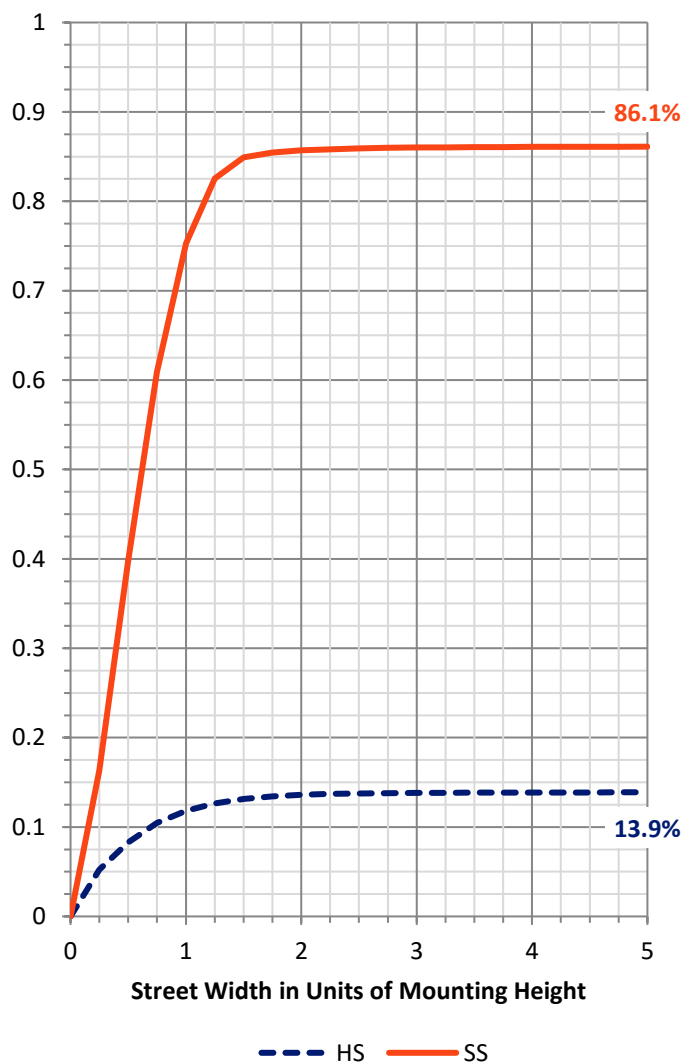
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1936.8	0.0	1936.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	11931.3	0.0	11931.3
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	13868.0	0.0	13868.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.8	1.3
10°-20°	808.0	5.8
20°-30°	1695.0	12.2
30°-40°	2921.7	21.1
40°-50°	4270.0	30.8
50°-60°	3325.6	24.0
60°-70°	563.5	4.1
70°-80°	77.4	0.6
80°-90°	20.1	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°	13868.0	100.0
0°-180°	13868.0	100.0

**Coefficient of Utilization**



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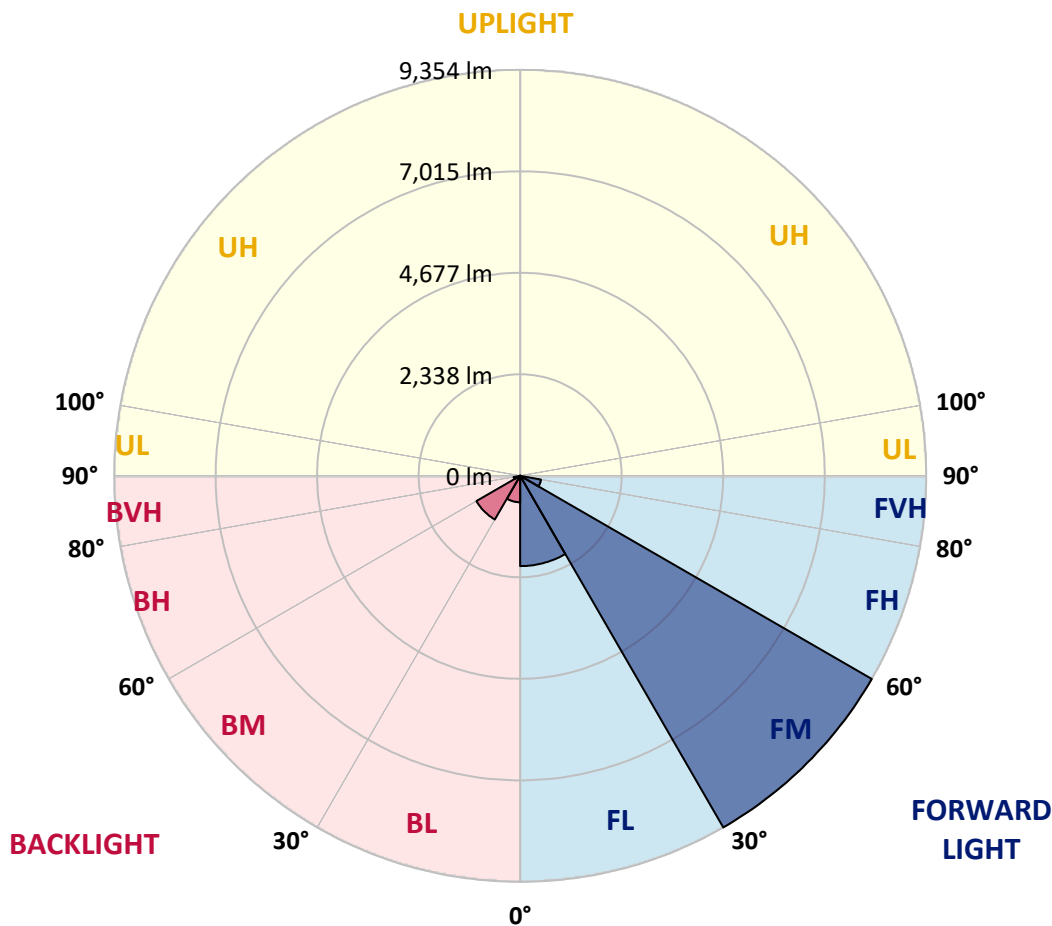
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2080.4	15.0			
FM (30°-60°)	9353.7	67.4			
FH (60°-80°)	487.9	3.5			G0/660
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	609.5	4.4	B2/1000		
BM (30°-60°)	1163.5	8.4	B2/2500		
BH (60°-80°)	153.0	1.1	B1/500		G1/500
BVH (80°-90°)	10.8	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°	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5
2.5°	1881.1	1867.4	1837.7	1783.0	1760.2	1705.5	1673.6	1612.0	1573.3	1529.9	1482.1
5°	2649.5	2578.8	2535.5	2473.9	2293.8	2182.0	1997.4	1840.0	1767.1	1687.3	1577.8
7.5°	3442.9	3397.3	3338.0	3205.8	3082.7	2850.1	2533.2	2186.6	2038.4	1901.6	1685.0
10°	4099.6	3971.9	3965.1	3867.0	3732.5	3454.3	3073.6	2642.6	2378.1	2177.5	1837.7
12.5°	4557.9	4441.6	4494.0	4482.6	4357.2	4101.9	3661.8	3091.8	2815.9	2503.5	1995.1
15°	4975.1	4927.3	4911.3	4897.6	4847.5	4658.2	4263.8	3639.0	3240.0	2863.8	2172.9
17.5°	5383.3	5260.1	5319.4	5330.8	5326.3	5155.3	4785.9	4158.9	3689.2	3244.6	2359.9
20°	5745.8	5757.2	5677.4	5661.4	5647.8	5640.9	5280.7	4674.2	4241.0	3643.6	2603.9
22.5°	6210.9	6131.1	6201.8	6156.2	6067.3	6012.6	5736.7	5130.2	4719.8	4124.7	2852.4
25°	6760.4	6824.3	6657.8	6639.6	6541.6	6352.3	6103.8	5640.9	5180.3	4571.6	3121.4
27.5°	7437.6	7325.9	7282.6	7182.3	7004.4	6924.6	6632.8	6167.6	5736.7	5041.3	3381.4
30°	8019.0	7989.4	7772.8	7654.2	7499.2	7496.9	7088.8	6881.3	6461.8	5777.7	3739.3
32.5°	8493.3	8363.3	8283.5	8201.5	8076.1	8110.3	7766.0	7656.5	7234.7	6461.8	4161.1
35°	8810.2	8716.8	8668.9	8543.5	8507.0	8659.8	8516.1	8470.5	8123.9	7423.9	4655.9
37.5°	8910.6	8940.2	8931.1	8773.8	8851.3	9264.0	9448.7	9330.1	9147.7	8438.6	5191.7
40°	8999.5	9020.0	8974.4	9159.1	9380.3	9850.0	10518.0	10321.9	10253.5	9466.9	5937.3
42.5°	9049.6	9033.7	9033.7	9352.9	9688.1	10632.0	11550.9	11420.9	11368.5	10561.3	6799.2
45°	8833.0	8678.0	8844.4	9277.7	9952.6	11017.4	12376.3	12556.4	12481.2	11863.3	7807.0
47.5°	8023.6	8119.4	8212.9	8792.0	9631.1	10898.8	12882.5	13495.8	13634.9	12957.7	8468.2
50°	6799.2	6778.7	6972.5	7702.1	8721.3	10388.1	12784.4	13767.1	14020.2	13286.0	8607.3
52.5°	4945.5	5096.0	5305.8	6030.8	7239.3	9065.6	11519.0	13067.2	13404.6	12882.5	8516.1
55°	2879.7	2713.3	3185.3	3798.6	4938.7	6838.0	9738.2	11582.8	12207.6	12148.3	8055.5
57.5°	1153.7	1117.2	1279.1	1723.7	2576.5	4238.7	7081.9	9517.1	10518.0	11126.8	7079.7
60°	506.2	494.8	581.4	702.3	1053.4	1954.0	3873.9	5919.1	6963.4	7775.1	4872.5
62.5°	364.8	360.3	403.6	446.9	556.3	850.5	1628.0	2385.0	2973.2	3591.1	2182.0
65°	294.1	305.5	335.2	358.0	410.4	472.0	574.6	663.5	814.0	843.6	481.1
67.5°	239.4	248.5	275.9	301.0	310.1	255.4	264.5	232.6	232.6	207.5	166.4
70°	175.6	177.8	209.8	239.4	191.5	102.6	180.1	180.1	161.9	155.0	141.4
72.5°	130.0	132.2	157.3	148.2	75.2	63.8	132.2	145.9	132.2	125.4	114.0
75°	95.8	98.0	82.1	34.2	31.9	41.0	77.5	100.3	95.8	93.5	86.6
77.5°	18.2	13.7	11.4	16.0	22.8	34.2	50.2	61.6	63.8	68.4	63.8
80°	2.3	2.3	6.8	13.7	25.1	36.5	52.4	59.3	61.6	63.8	59.3
82.5°	0.0	2.3	6.8	13.7	25.1	34.2	45.6	52.4	57.0	59.3	57.0
85°	0.0	2.3	4.6	11.4	20.5	25.1	22.8	16.0	13.7	16.0	11.4
87.5°	0.0	0.0	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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°	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5	1436.5
2.5°	1454.7	1445.6	1413.7	1379.4	1349.8	1363.5	1349.8	1338.4	1343.0	1338.4	1333.8
5°	1534.5	1493.5	1425.1	1395.4	1370.3	1368.0	1361.2	1358.9	1361.2	1361.2	1340.7
7.5°	1609.7	1543.6	1470.7	1438.7	1409.1	1411.4	1395.4	1395.4	1393.1	1381.7	1377.2
10°	1723.7	1634.8	1541.3	1484.3	1447.9	1441.0	1425.1	1409.1	1409.1	1409.1	1386.3
12.5°	1849.1	1737.4	1609.7	1543.6	1500.3	1466.1	1441.0	1436.5	1411.4	1406.8	1395.4
15°	1958.6	1817.2	1655.3	1564.1	1509.4	1463.8	1425.1	1400.0	1388.6	1381.7	1372.6
17.5°	2065.8	1885.6	1680.4	1564.1	1504.9	1452.4	1411.4	1388.6	1361.2	1365.8	1347.5
20°	2209.4	1958.6	1687.3	1534.5	1461.5	1411.4	1356.6	1345.2	1329.3	1315.6	1320.2
22.5°	2348.5	2011.0	1666.7	1498.0	1393.1	1333.8	1306.5	1292.8	1286.0	1274.6	1258.6
25°	2473.9	2068.0	1634.8	1431.9	1320.2	1276.8	1251.8	1249.5	1233.5	1233.5	1203.9
27.5°	2601.6	2088.6	1580.1	1354.4	1256.3	1231.2	1219.8	1215.3	1208.4	1192.5	1172.0
30°	2747.5	2095.4	1500.3	1274.6	1199.3	1172.0	1187.9	1199.3	1169.7	1140.0	1149.2
32.5°	2868.3	2079.4	1404.5	1199.3	1158.3	1144.6	1176.5	1187.9	1153.7	1121.8	1105.8
35°	3014.3	2040.7	1311.0	1140.0	1117.2	1144.6	1172.0	1172.0	1103.6	1064.8	1055.7
37.5°	3235.4	1997.4	1224.4	1089.9	1073.9	1130.9	1167.4	1142.3	1035.2	987.3	975.9
40°	3472.6	1970.0	1140.0	1039.7	1051.1	1108.1	1128.6	1051.1	941.7	912.0	902.9
42.5°	3816.9	1915.3	1064.8	996.4	1030.6	1076.2	1076.2	937.1	896.1	880.1	877.8
45°	4245.5	1876.5	998.7	959.9	1001.0	1012.4	975.9	877.8	848.2	843.6	845.9
47.5°	4455.3	1801.3	930.3	916.6	946.2	948.5	852.8	829.9	804.9	798.0	793.5
50°	4423.4	1666.7	841.4	859.6	900.6	877.8	777.5	782.1	759.3	757.0	745.6
52.5°	4199.9	1454.7	752.4	795.7	841.4	775.2	715.9	711.4	711.4	681.7	670.3
55°	3723.4	1172.0	645.3	700.0	754.7	652.1	636.1	631.6	620.2	592.8	586.0
57.5°	2948.1	859.6	485.7	544.9	640.7	554.1	551.8	531.3	501.6	481.1	481.1
60°	1753.4	494.8	305.5	332.9	424.1	449.2	499.3	490.2	440.1	408.1	399.0
62.5°	800.3	255.4	193.8	198.4	228.0	291.9	392.2	453.7	383.1	328.3	323.8
65°	269.0	189.2	159.6	152.8	157.3	175.6	234.8	321.5	305.5	253.1	244.0
67.5°	164.2	168.7	150.5	139.1	139.1	136.8	134.5	145.9	180.1	175.6	177.8
70°	141.4	155.0	139.1	125.4	120.8	114.0	95.8	79.8	68.4	79.8	84.4
72.5°	114.0	123.1	118.6	107.2	95.8	86.6	68.4	52.4	38.8	34.2	34.2
75°	84.4	91.2	95.8	82.1	73.0	61.6	50.2	34.2	20.5	13.7	13.7
77.5°	61.6	68.4	70.7	63.8	54.7	43.3	31.9	22.8	11.4	4.6	4.6
80°	52.4	61.6	68.4	63.8	57.0	41.0	29.6	16.0	9.1	2.3	2.3
82.5°	50.2	61.6	68.4	61.6	54.7	38.8	29.6	18.2	6.8	2.3	2.3
85°	11.4	16.0	20.5	25.1	29.6	29.6	22.8	13.7	6.8	2.3	2.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	2.3	2.3	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)