

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: P455590

Luminaire Tested: **GALN-SA6D-740-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37544 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

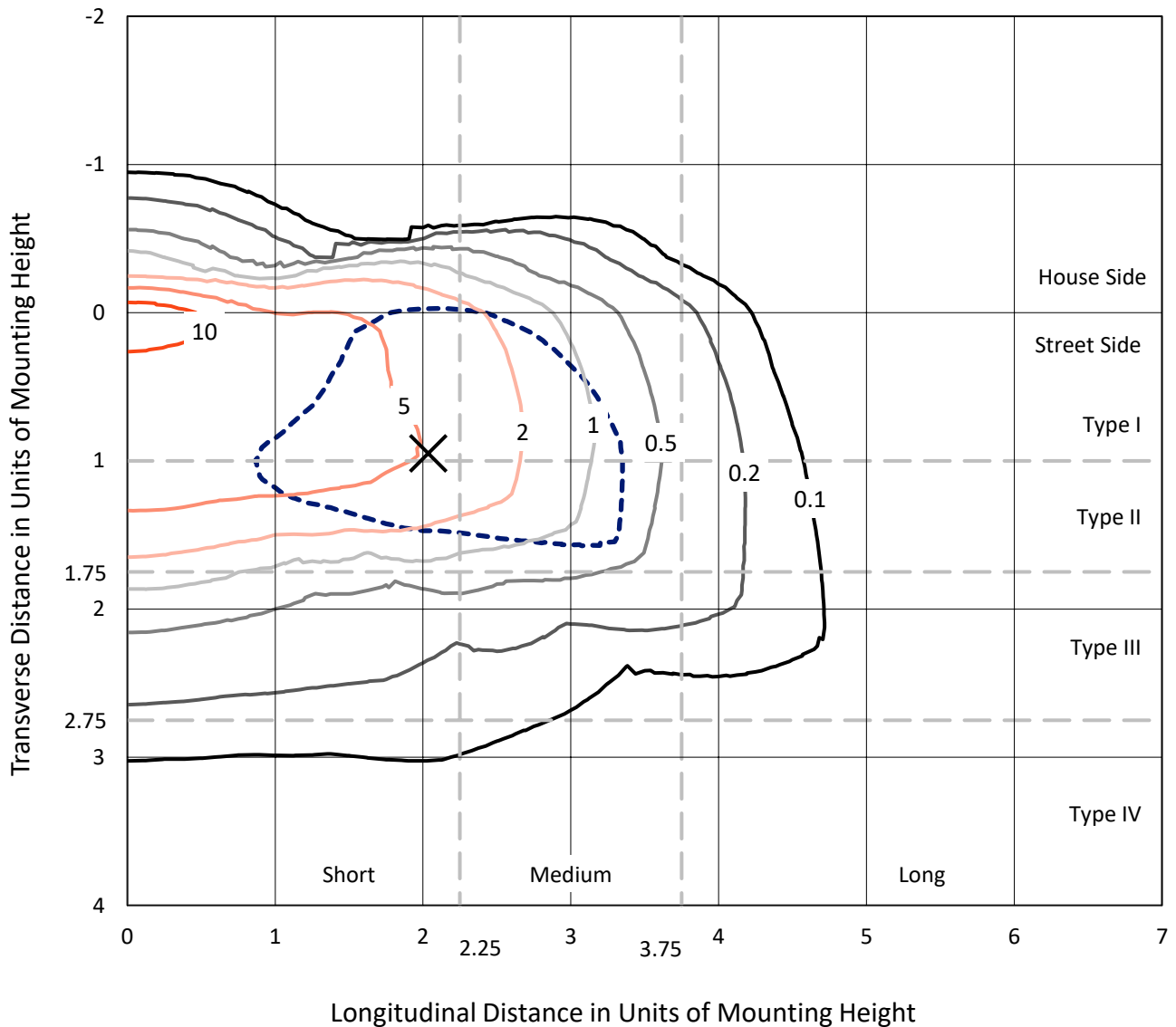
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

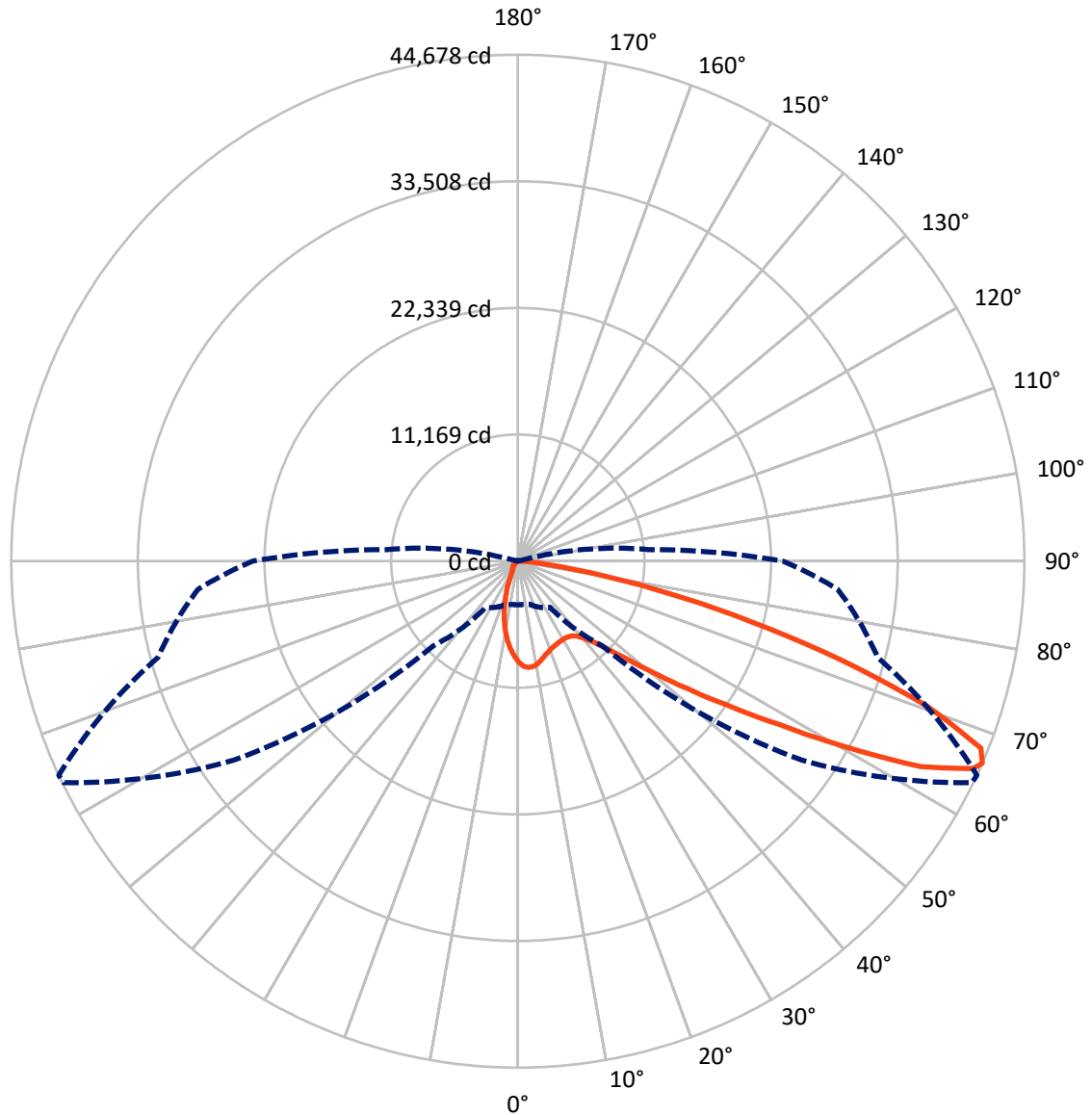
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3882.6	0.0	3882.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	33661.4	0.0	33661.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	37544.0	0.0	37544.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	728.1	1.9
10°-20°	1586.5	4.2
20°-30°	2272.7	6.1
30°-40°	3319.4	8.8
40°-50°	5566.1	14.8
50°-60°	9288.9	24.7
60°-70°	9859.9	26.3
70°-80°	4465.5	11.9
80°-90°	456.9	1.2
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°	37544.0	100.0
0°-180°	37544.0	100.0

**Coefficient of Utilization**



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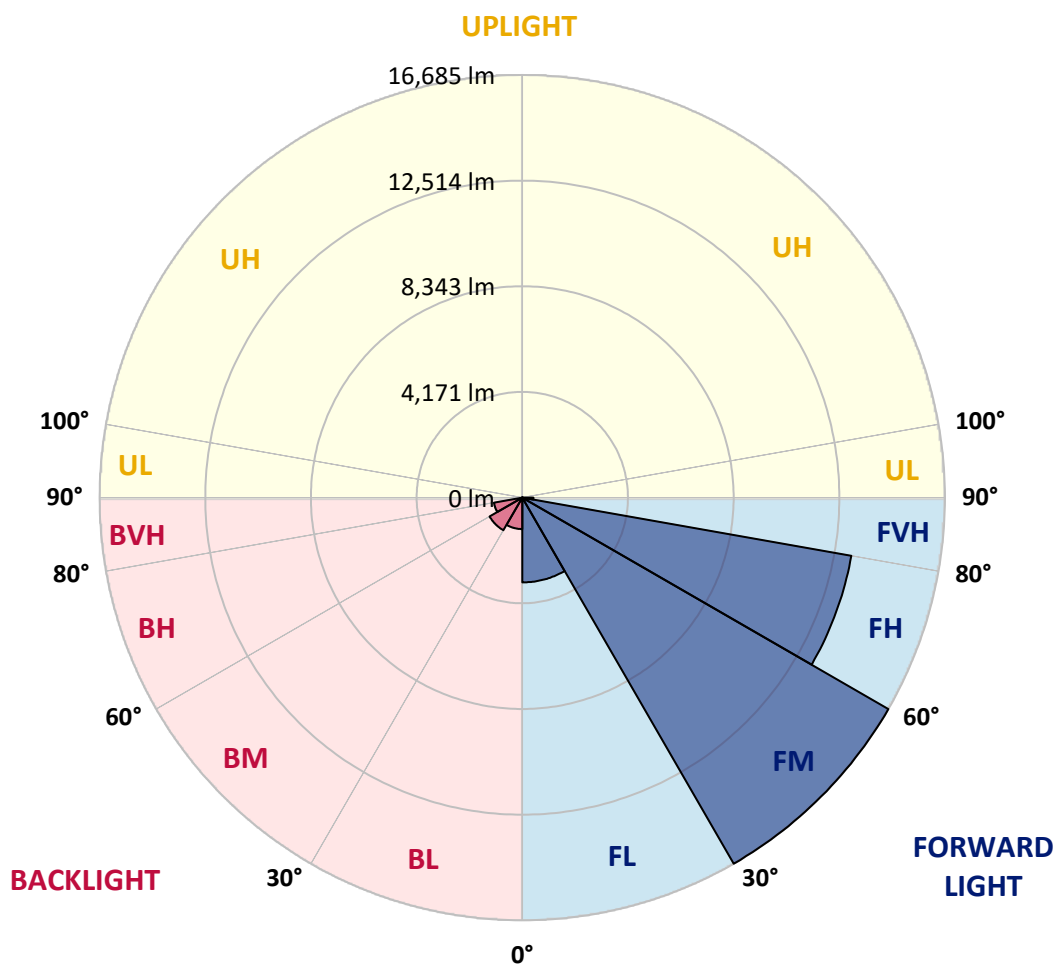
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3345.3	8.9			
FM (30°-60°)	16685.4	44.4			
FH (60°-80°)	13188.3	35.1			G5
FVH (80°-90°)	442.4	1.2			G3/500
BL (0°-30°)	1242.0	3.3	B3/2500		
BM (30°-60°)	1489.0	4.0	B2/2500		
BH (60°-80°)	1137.0	3.0	B3/2500		G3/2500
BVH (80°-90°)	14.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1
2.5°	9382.3	9392.5	9405.1	9422.9	9435.6	9397.5	9344.3	9283.4	9270.8	9141.4	8984.2
5°	8880.2	8895.5	9007.0	9067.9	9204.8	9329.1	9407.7	9417.8	9412.8	9291.0	9040.0
7.5°	8165.2	8208.3	8317.3	8423.8	8679.9	8915.7	9194.7	9389.9	9402.6	9369.6	9057.7
10°	7584.5	7612.4	7668.2	7878.6	8091.6	8451.7	8842.2	9209.9	9240.3	9372.2	9042.5
12.5°	7130.6	7171.1	7239.6	7401.9	7658.0	7997.8	8441.6	8936.0	8999.4	9324.0	8999.4
15°	6813.6	6833.9	6902.3	7062.1	7310.6	7625.0	8073.9	8649.5	8705.3	9260.6	8991.8
17.5°	6664.0	6686.8	6735.0	6861.8	7067.2	7358.8	7797.5	8418.7	8489.7	9220.0	9019.7
20°	6704.6	6724.8	6727.4	6793.3	6932.8	7178.7	7594.6	8203.2	8294.5	9194.7	9065.4
22.5°	6935.3	6937.9	6907.4	6877.0	6925.2	7102.7	7470.4	8066.3	8160.1	9189.6	9118.6
25°	7280.2	7287.8	7237.1	7130.6	7034.2	7125.5	7442.5	7977.5	8061.2	9176.9	9151.6
27.5°	7756.9	7754.4	7739.2	7561.6	7287.8	7226.9	7465.3	7929.3	8000.3	9141.4	9164.3
30°	8423.8	8403.5	8370.6	8170.2	7751.8	7472.9	7561.6	7898.9	7964.8	9090.7	9131.3
32.5°	9080.6	9156.6	9151.6	8961.4	8439.0	7911.6	7762.0	7939.5	7987.7	9057.7	9083.1
35°	9846.4	9843.8	10039.1	9968.1	9357.0	8472.0	8104.3	8073.9	8111.9	9080.6	9060.3
37.5°	10556.4	10622.3	10926.6	11000.1	10442.3	9263.1	8588.6	8362.9	8375.6	9235.3	9116.1
40°	11441.4	11568.2	12022.1	12268.0	11776.1	10437.2	9303.7	8892.9	8895.5	9615.6	9326.5
42.5°	12582.5	12782.8	13206.3	13617.1	13353.3	11826.8	10376.3	9732.3	9727.2	10285.1	9808.3
45°	13969.5	14109.0	14590.8	15242.5	15075.1	13766.7	11938.4	11033.1	10967.2	11383.0	10662.9
47.5°	15166.4	15356.6	15846.0	16589.0	17349.7	16135.1	13804.7	12820.8	12777.7	13130.2	12128.6
50°	15688.8	15856.1	16370.9	17413.1	19256.6	19243.9	16583.9	15430.1	15356.6	15546.8	14395.5
52.5°	15115.7	15272.9	15792.7	17091.0	20154.3	23032.3	20610.7	18703.8	18615.0	18371.6	17103.7
55°	13153.0	13282.3	14050.7	15541.7	19809.4	25558.0	26158.9	22748.3	22403.5	21457.6	20169.5
57.5°	10472.7	10406.8	10883.5	12615.4	17785.8	26404.9	31854.3	27786.9	27170.7	24125.3	22763.6
60°	7257.4	7460.2	7652.9	8794.0	13373.6	24936.7	35396.7	34121.2	33309.8	26749.8	25248.6
62.5°	5335.2	5469.6	5596.4	6123.9	8408.6	19910.8	36023.1	40628.0	39907.9	29536.6	27619.5
65°	4219.5	4229.7	4280.4	4800.2	5540.6	12947.6	33013.1	44297.3	44112.1	32219.4	28580.6
66°	3844.2	3846.8	3925.4	4483.2	4972.6	10543.7	30601.6	44576.2	44677.6	32863.5	28299.1
67.5°	3359.9	3349.7	3463.9	4029.3	4528.9	7602.2	26285.7	43445.2	44046.2	33358.0	27287.4
70°	2604.2	2591.6	2731.0	3380.2	4171.3	5071.5	17471.4	37303.6	38272.3	32346.2	24143.0
72.5°	1734.5	1744.6	1983.0	2667.6	3981.1	4465.5	10510.7	28377.7	29747.0	26711.7	18992.9
75°	1011.8	1029.5	1300.8	1983.0	3456.2	4257.5	5948.9	20235.4	21110.2	18445.1	11831.9
77.5°	530.0	537.6	727.8	1308.5	2649.9	3953.3	3963.4	12927.3	13338.1	8963.9	4683.6
80°	281.5	273.9	390.5	788.6	1823.2	3471.5	3215.3	6844.0	7115.4	2662.6	1184.2
82.5°	106.5	116.6	207.9	517.3	1077.7	2492.7	2769.1	3025.2	2931.3	585.8	497.0
85°	20.3	25.4	88.8	306.8	542.7	1042.2	2041.3	1483.4	1374.4	220.6	286.5
87.5°	2.5	5.1	25.4	73.5	78.6	352.5	603.5	410.8	355.0	81.1	119.2
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°	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1	8903.1
2.5°	8908.1	8839.7	8611.5	8385.8	8155.0	7947.1	7805.1	7574.3	7516.0	7432.3	7384.1
5°	8890.4	8730.6	8291.9	7812.7	7366.4	6884.6	6516.9	6161.9	5971.7	5875.4	5839.9
7.5°	8839.7	8586.1	7901.4	7150.9	6435.8	5715.6	5089.3	4612.6	4305.7	4095.3	3953.3
10°	8738.2	8388.3	7447.5	6415.5	5335.2	4384.3	3590.6	2987.1	2520.5	2373.5	2378.5
12.5°	8634.3	8167.7	6940.4	5599.0	4260.1	3060.7	2218.8	1742.1	1518.9	1445.4	1430.2
15°	8537.9	7957.2	6443.4	4807.8	3172.2	1983.0	1430.2	1262.8	1202.0	1189.3	1186.7
17.5°	8487.2	7762.0	5913.4	3902.5	2213.7	1346.5	1146.2	1100.5	1082.8	1070.1	1065.0
20°	8444.1	7592.1	5406.2	3055.6	1513.9	1103.1	1027.0	983.9	953.4	940.8	933.2
22.5°	8413.7	7417.1	4881.3	2365.9	1158.8	978.8	910.3	854.6	811.4	796.2	786.1
25°	8368.0	7224.4	4351.4	1729.4	976.3	869.8	791.2	725.2	669.4	641.5	636.5
27.5°	8302.1	7006.3	3770.7	1280.6	872.3	773.4	677.0	595.9	540.1	509.7	512.2
30°	8195.6	6778.1	3190.0	1016.8	788.6	674.5	570.5	491.9	438.7	415.9	413.3
32.5°	8068.8	6501.7	2657.5	872.3	712.5	585.8	476.7	408.3	367.7	349.9	347.4
35°	7949.6	6222.8	2114.8	783.6	633.9	504.6	400.7	342.3	311.9	296.7	299.2
37.5°	7883.7	5974.3	1648.2	712.5	570.5	433.6	344.9	294.1	266.3	253.6	251.0
40°	7926.8	5771.4	1311.0	649.2	499.5	372.8	296.7	253.6	225.7	207.9	207.9
42.5°	8129.7	5682.6	1057.4	588.3	433.6	322.0	258.6	218.1	187.6	169.9	172.4
45°	8748.4	5776.5	885.0	532.5	372.8	278.9	223.1	180.0	152.1	139.5	136.9
47.5°	9775.4	6128.9	765.8	474.2	319.5	238.4	187.6	149.6	121.7	111.6	109.0
50°	11570.7	6856.7	677.0	415.9	271.3	202.9	154.7	119.2	96.4	86.2	86.2
52.5°	14040.5	8444.1	613.7	349.9	228.2	172.4	126.8	96.4	76.1	68.5	65.9
55°	16621.9	10117.7	580.7	294.1	190.2	142.0	101.4	76.1	58.3	50.7	48.2
57.5°	19104.4	11431.2	542.7	238.4	152.1	109.0	78.6	58.3	40.6	35.5	33.0
60°	21485.5	12493.7	461.5	190.2	119.2	78.6	58.3	40.6	27.9	22.8	22.8
62.5°	23615.6	13112.4	362.6	152.1	91.3	55.8	38.0	30.4	20.3	15.2	15.2
65°	23864.1	12308.6	273.9	116.6	65.9	35.5	22.8	22.8	15.2	10.1	10.1
66°	23364.5	11626.5	240.9	106.5	58.3	30.4	20.3	17.8	12.7	7.6	7.6
67.5°	22248.8	10462.6	207.9	91.3	48.2	22.8	15.2	15.2	10.1	5.1	5.1
70°	19223.6	8545.5	164.8	68.5	35.5	17.8	10.1	10.1	7.6	5.1	5.1
72.5°	14651.6	6380.0	134.4	50.7	25.4	12.7	7.6	7.6	7.6	5.1	5.1
75°	8837.1	3436.0	104.0	38.0	22.8	10.1	5.1	7.6	10.1	7.6	5.1
77.5°	3255.9	1169.0	81.1	30.4	17.8	10.1	5.1	5.1	10.1	7.6	7.6
80°	798.8	304.3	58.3	25.4	17.8	10.1	5.1	5.1	10.1	10.1	10.1
82.5°	370.2	129.3	40.6	22.8	17.8	10.1	5.1	5.1	7.6	10.1	10.1
85°	213.0	60.9	33.0	25.4	17.8	10.1	5.1	5.1	7.6	10.1	10.1
87.5°	86.2	30.4	30.4	25.4	20.3	12.7	5.1	5.1	5.1	7.6	7.6
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)