

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: P455601

Luminaire Tested: **GALN-SA6D-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
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-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34293 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

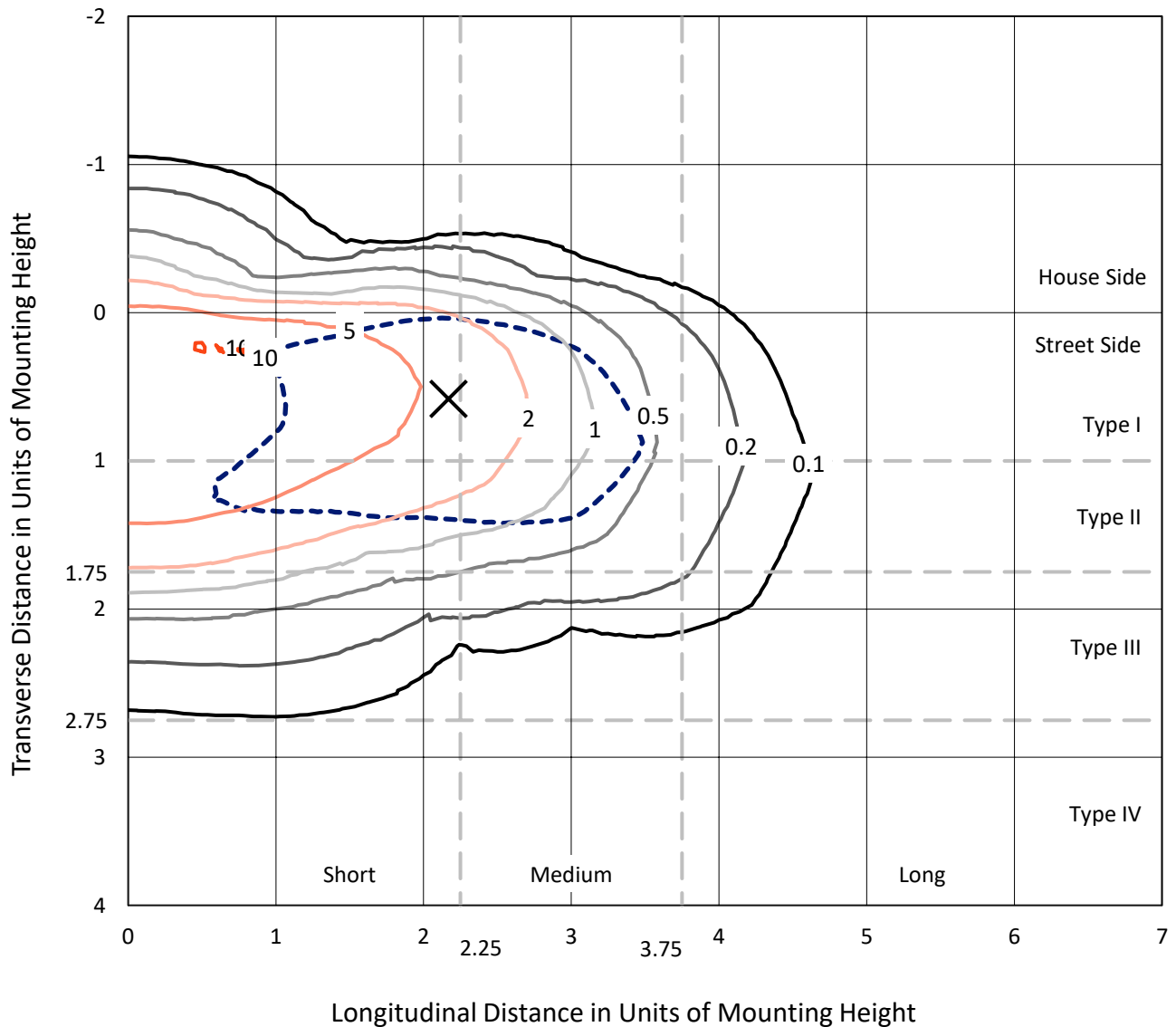
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

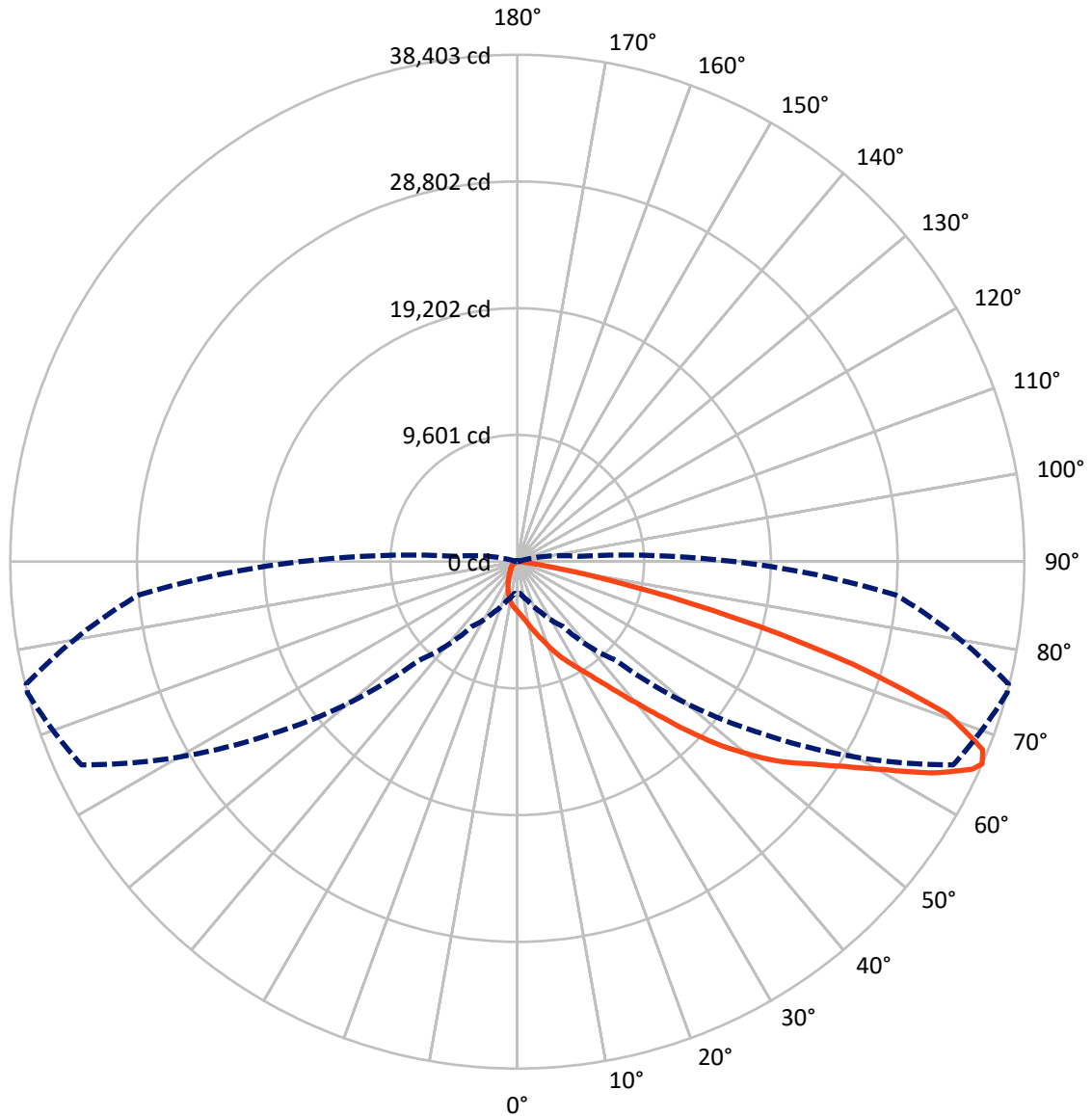
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2117.1	0.0	2117.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	32175.9	0.0	32175.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	34293.0	0.0	34293.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.7	1.1
10°-20°	1064.6	3.1
20°-30°	1838.3	5.4
30°-40°	3315.8	9.7
40°-50°	5990.2	17.5
50°-60°	9338.7	27.2
60°-70°	8871.4	25.9
70°-80°	3324.8	9.7
80°-90°	187.6	0.5
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°	34293.0	100.0
0°-180°	34293.0	100.0

**Coefficient of Utilization**



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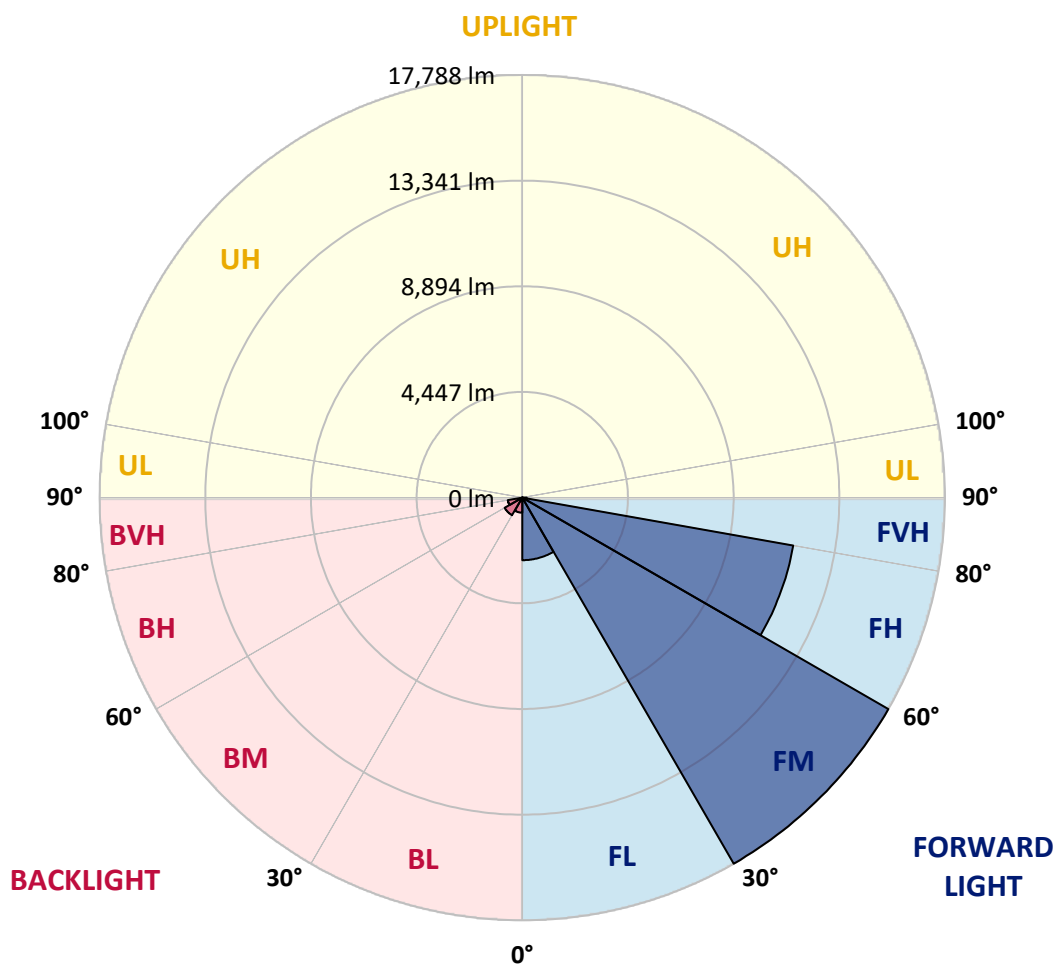
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2632.3	7.7			
FM (30°-60°)	17787.8	51.9			
FH (60°-80°)	11578.0	33.8			G4/12000
FVH (80°-90°)	177.9	0.5			G2/225
BL (0°-30°)	632.3	1.8	B2/1000		
BM (30°-60°)	856.9	2.5	B1/1000		
BH (60°-80°)	618.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3
2.5°	4480.6	4424.8	4442.5	4417.2	4358.8	4272.6	4196.6	4087.5	3978.5	3960.7	3839.0
5°	5071.4	5056.2	5035.9	4962.3	4921.8	4789.9	4632.7	4445.1	4219.4	4178.8	3958.2
7.5°	5474.5	5466.9	5477.1	5439.0	5403.5	5284.4	5117.0	4860.9	4511.0	4488.2	4120.5
10°	5606.4	5626.7	5664.7	5725.6	5781.4	5743.3	5616.5	5297.0	4888.8	4822.9	4305.6
12.5°	5530.3	5553.2	5644.4	5806.7	5986.8	6090.7	6040.0	5806.7	5289.4	5236.2	4513.5
15°	5335.1	5363.0	5492.3	5743.3	6065.4	6359.5	6486.3	6318.9	5756.0	5669.8	4764.6
17.5°	5046.0	5086.6	5271.7	5603.9	6045.1	6552.2	6909.7	6854.0	6253.0	6171.9	5038.4
20°	4827.9	4858.4	5015.6	5395.9	5958.9	6658.7	7312.9	7470.1	6866.6	6727.2	5360.4
22.5°	4972.5	4982.6	5035.9	5264.1	5804.2	6686.6	7667.9	8111.7	7518.3	7394.1	5695.1
25°	5679.9	5578.5	5525.3	5474.5	5771.2	6661.2	7989.9	8781.1	8167.4	8035.6	6027.3
27.5°	6795.6	6750.0	6481.2	6121.1	6052.7	6694.2	8202.9	9415.0	8778.5	8636.5	6351.9
30°	8010.2	7931.6	7766.8	7239.4	6709.4	6927.5	8357.6	10031.2	9501.2	9313.6	6648.6
32.5°	9125.9	9176.6	8930.7	8388.0	7774.4	7424.5	8557.9	10703.1	10330.4	10097.1	6993.4
35°	10426.7	10528.2	10150.3	9630.5	8912.9	8322.1	8948.4	11461.3	11382.7	11088.6	7525.9
37.5°	11747.8	11808.7	11577.9	10847.7	10201.1	9463.2	9683.8	12397.0	12678.4	12427.4	8162.4
40°	12858.5	12942.1	12772.2	12123.1	11433.4	10784.3	10751.3	13416.3	14220.1	13961.5	9110.7
42.5°	13707.9	13771.3	13776.4	13317.4	12696.2	12402.0	12113.0	14717.1	16152.3	15853.1	10211.2
45°	14780.5	14871.8	14818.5	14506.7	14042.6	13989.4	13839.8	16289.2	18464.9	18087.0	11638.8
47.5°	16438.8	16499.7	16367.8	16000.2	15528.5	15612.2	15523.5	18051.5	20823.0	20498.5	13117.1
50°	17590.0	17691.5	17879.1	18026.2	17683.9	17374.5	17110.8	19697.2	23062.1	22770.5	14628.4
52.5°	17577.4	17744.7	18338.1	19078.5	19826.5	19732.7	18974.5	21515.3	25199.6	24839.6	16048.4
55°	16393.2	16717.8	17590.0	18903.5	20975.2	22007.2	21662.4	23619.9	27045.6	26802.2	17694.0
57.5°	13948.8	14146.6	15358.6	17194.5	20333.7	23077.3	24776.2	26472.6	29259.3	29145.2	20250.0
60°	9382.0	9470.8	11030.2	13299.7	17311.1	22009.7	27058.3	29923.6	31985.1	31929.3	23234.5
62.5°	5375.7	5413.7	6544.6	8459.0	12318.4	18652.5	27251.0	34181.0	35253.6	35284.1	26688.1
65°	2893.2	2913.5	3826.3	4964.9	7495.5	13294.6	24504.9	36513.9	37895.8	37954.1	28828.2
66°	2497.7	2401.3	3045.4	4232.1	5963.9	10581.4	22767.9	36430.2	38403.0	38339.6	28752.1
67.5°	1899.2	1985.4	2431.7	3253.3	4419.7	7523.4	18797.0	34809.9	38017.5	37819.7	27583.2
70°	1359.1	1394.6	1731.9	2320.2	3009.9	4128.1	12011.5	28911.9	34553.8	34287.5	24030.7
72.5°	877.3	915.4	1227.3	1678.6	2175.6	2254.2	6724.6	20889.0	26639.9	26601.9	18097.2
75°	626.3	661.8	811.4	1201.9	1635.5	1394.6	3238.1	14078.1	16935.8	16821.7	11195.1
77.5°	453.9	471.6	542.6	786.1	1169.0	999.1	1501.1	7518.3	8431.2	8829.3	4947.1
80°	261.2	276.4	377.8	479.2	791.1	682.1	717.6	3017.5	3111.3	2961.7	1546.8
82.5°	129.3	147.1	225.7	327.1	494.5	459.0	329.6	907.8	958.5	933.1	390.5
85°	30.4	38.0	126.8	215.5	240.9	205.4	159.7	266.2	329.6	322.0	149.6
87.5°	2.5	5.1	45.6	38.0	40.6	68.5	55.8	68.5	106.5	98.9	53.2
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°	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3
2.5°	3783.2	3735.1	3595.6	3458.7	3344.6	3225.4	3116.4	3053.0	3027.6	2999.7	3012.4
5°	3836.5	3719.9	3438.4	3195.0	2956.6	2753.8	2591.5	2487.5	2436.8	2429.2	2416.5
7.5°	3907.5	3707.2	3271.0	2890.7	2578.8	2353.1	2168.0	2018.4	1972.8	1932.2	1899.2
10°	3993.7	3684.4	3063.1	2571.2	2239.0	1955.0	1711.6	1534.1	1442.8	1417.4	1435.2
12.5°	4085.0	3641.2	2845.0	2277.0	1894.2	1531.6	1305.9	1217.1	1191.8	1181.6	1184.2
15°	4176.3	3588.0	2616.8	1993.0	1508.7	1222.2	1118.2	1095.4	1085.3	1080.2	1075.1
17.5°	4260.0	3501.8	2360.7	1716.7	1222.2	1044.7	1006.7	986.4	966.1	958.5	945.8
20°	4358.8	3402.9	2130.0	1407.3	1034.6	945.8	900.2	862.1	831.7	811.4	808.9
22.5°	4452.7	3276.1	1889.1	1166.4	943.3	849.5	775.9	735.3	699.8	674.5	682.1
25°	4503.4	3121.4	1673.6	1016.8	859.6	753.1	672.0	621.2	583.2	570.5	568.0
27.5°	4503.4	2931.3	1463.1	930.6	783.5	666.9	583.2	535.0	509.7	491.9	494.5
30°	4467.9	2720.8	1267.8	864.7	717.6	590.8	512.2	469.1	448.8	436.1	433.6
32.5°	4440.0	2520.5	1100.5	801.3	649.1	524.9	456.4	423.5	403.2	390.5	390.5
35°	4483.1	2348.0	971.2	737.9	585.7	474.2	413.3	382.9	362.6	352.5	349.9
37.5°	4597.2	2190.8	872.3	669.4	527.4	431.1	382.9	347.4	327.1	314.4	309.4
40°	4878.7	2102.1	798.7	606.0	471.6	395.6	347.4	314.4	289.1	276.4	273.9
42.5°	5330.0	2104.6	727.7	547.7	428.5	365.1	317.0	278.9	251.0	238.4	235.8
45°	6009.6	2201.0	672.0	491.9	390.5	332.2	284.0	243.4	218.1	205.4	205.4
47.5°	6823.5	2388.6	623.8	443.7	355.0	301.7	251.0	210.5	185.1	175.0	175.0
50°	7705.9	2632.0	575.6	393.0	324.6	268.8	215.5	182.6	162.3	154.7	154.7
52.5°	8606.1	2926.2	527.4	352.5	291.6	233.3	185.1	162.3	144.5	139.5	136.9
55°	9787.7	3301.5	476.7	309.4	256.1	200.3	164.8	142.0	121.7	114.1	111.6
57.5°	11605.8	3866.9	420.9	271.3	210.5	167.4	142.0	119.2	96.4	83.7	81.1
60°	13799.2	4556.6	362.6	238.4	169.9	136.9	114.1	91.3	71.0	55.8	53.2
62.5°	15853.1	4995.3	306.8	200.3	134.4	104.0	81.1	68.5	50.7	35.5	33.0
65°	16760.9	4848.2	253.6	162.3	106.5	73.5	53.2	48.2	30.4	15.2	12.7
66°	16459.1	4630.2	233.3	147.1	96.4	63.4	45.6	40.6	22.8	7.6	7.6
67.5°	15569.1	4115.4	202.9	126.8	83.7	50.7	35.5	30.4	12.7	2.5	0.0
70°	13340.2	3329.4	159.7	93.8	60.9	35.5	20.3	15.2	7.6	0.0	0.0
72.5°	10246.7	2479.9	126.8	71.0	43.1	20.3	10.1	5.1	7.6	0.0	0.0
75°	6278.4	1417.4	98.9	53.2	27.9	12.7	7.6	0.0	7.6	2.5	0.0
77.5°	2786.7	636.5	65.9	35.5	20.3	10.1	5.1	0.0	5.1	2.5	0.0
80°	704.9	207.9	38.0	25.4	15.2	7.6	2.5	0.0	5.1	5.1	2.5
82.5°	192.7	76.1	27.9	20.3	12.7	7.6	2.5	0.0	5.1	5.1	5.1
85°	76.1	35.5	25.4	20.3	15.2	7.6	2.5	0.0	5.1	5.1	5.1
87.5°	35.5	25.4	25.4	22.8	17.7	7.6	2.5	0.0	5.1	2.5	5.1
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)