

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: P459435

Luminaire Tested: **GALN-SA8D-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459435  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45560 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

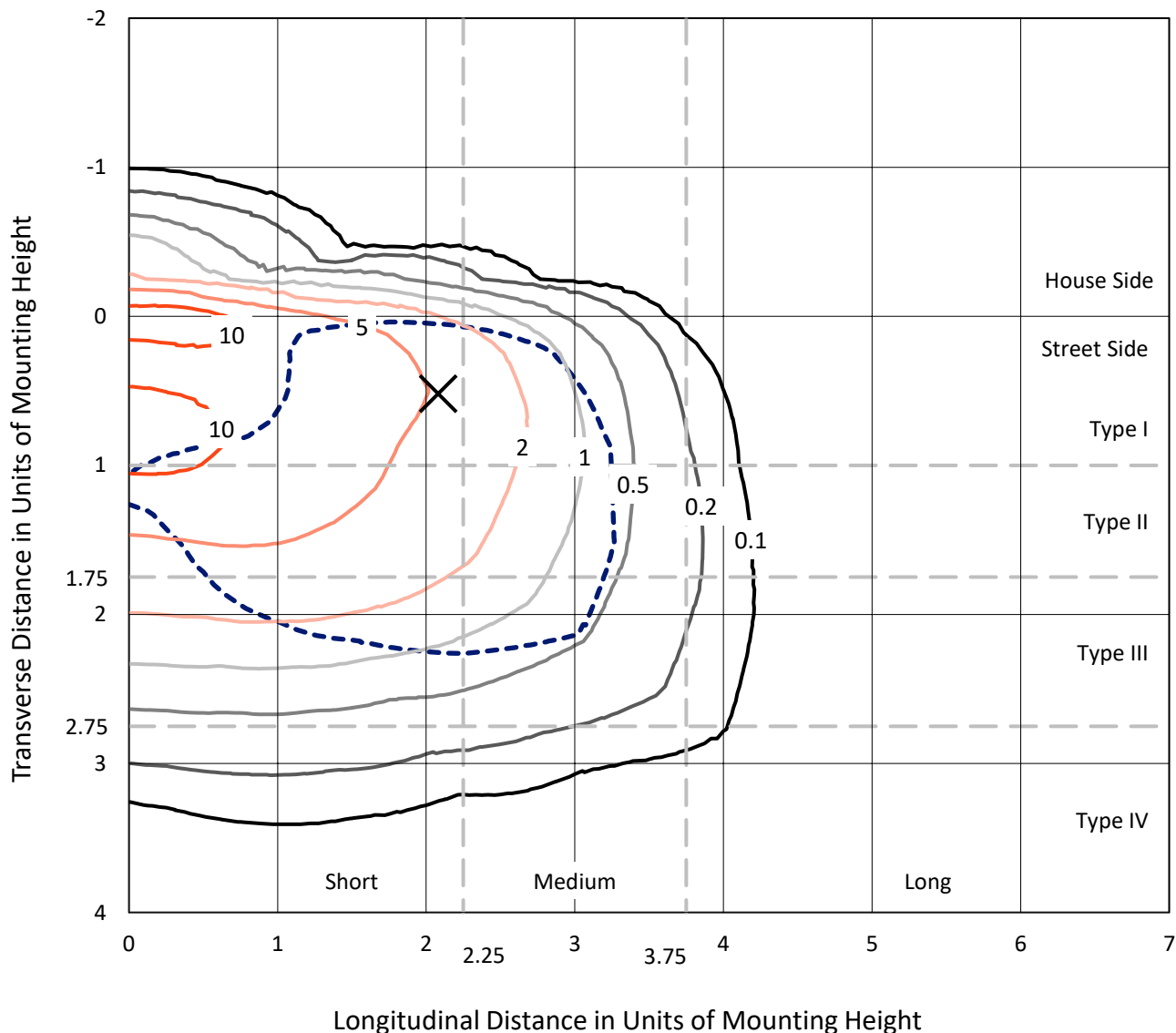
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

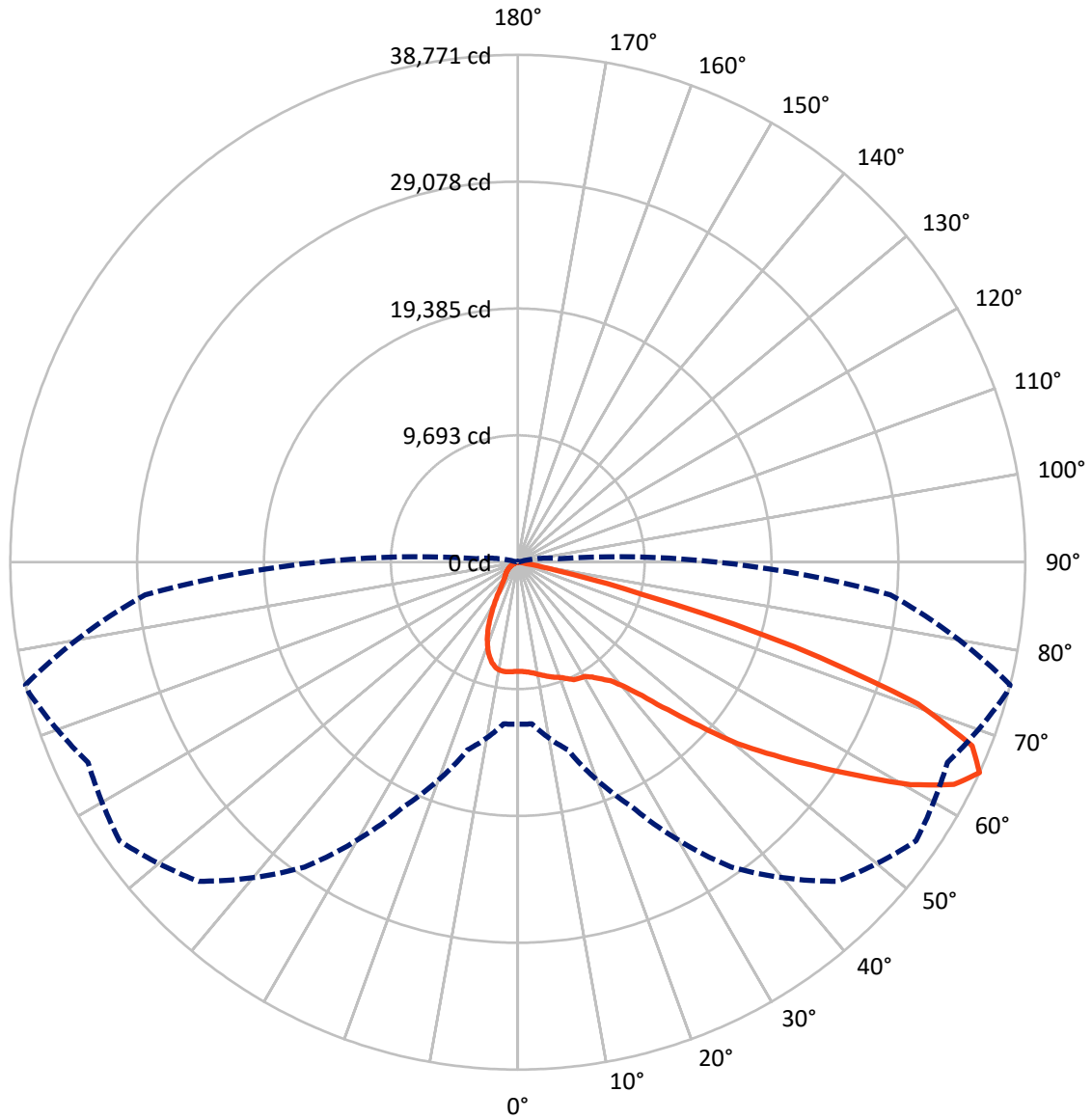
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3290.3	0.0	3290.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	42269.7	0.0	42269.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	45560.0	0.0	45560.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	686.5	1.5
10°-20°	1528.7	3.4
20°-30°	2463.3	5.4
30°-40°	4283.1	9.4
40°-50°	7077.6	15.5
50°-60°	10933.4	24.0
60°-70°	13351.2	29.3
70°-80°	5067.1	11.1
80°-90°	169.1	0.4
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°	45560.0	100.0
0°-180°	45560.0	100.0

**Coefficient of Utilization**



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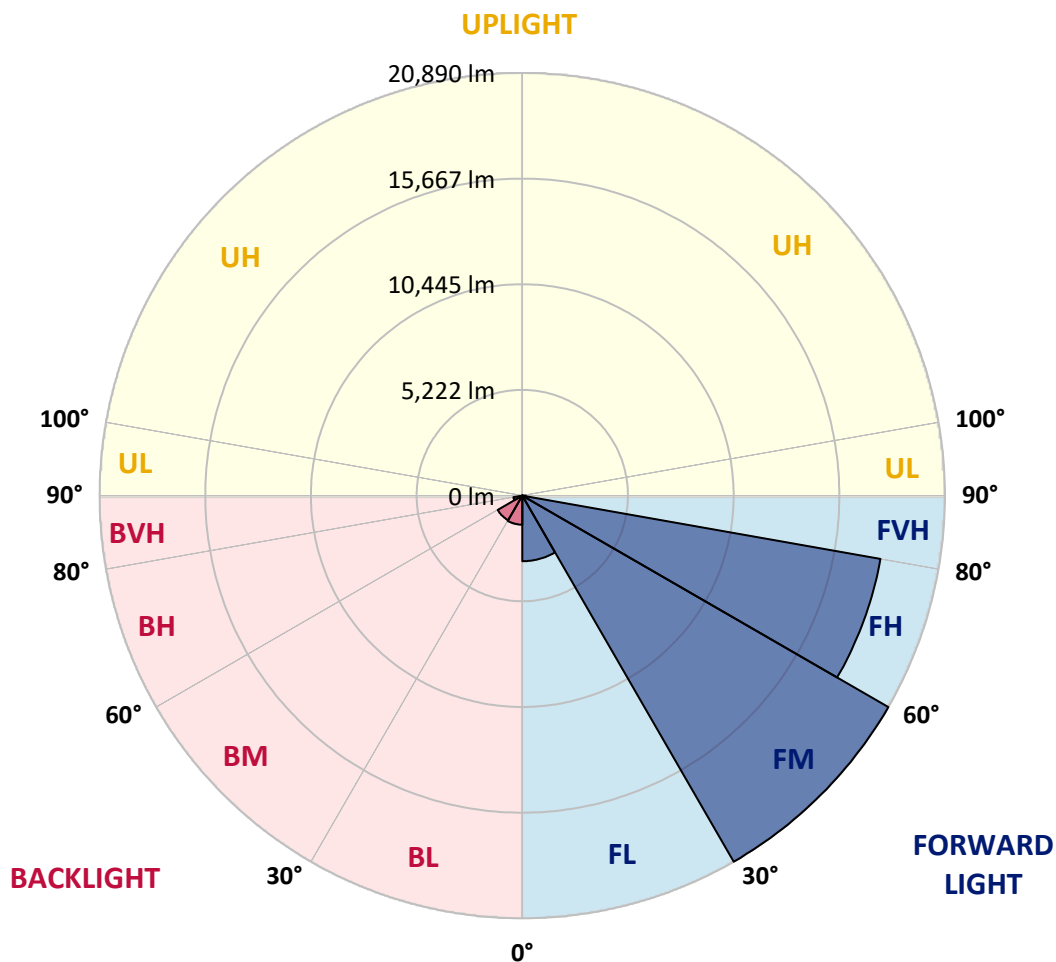
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3241.1	7.1			
FM (30°-60°)	20890.0	45.9			
FH (60°-80°)	17971.9	39.4			G5
FVH (80°-90°)	166.8	0.4			G2/225
BL (0°-30°)	1437.5	3.2	B3/2500		
BM (30°-60°)	1404.1	3.1	B2/2500		
BH (60°-80°)	446.5	1.0	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4
2.5°	7964.5	7967.7	7987.0	8035.2	8109.2	8170.3	8221.8	8305.4	8363.3	8369.8	8389.1
5°	7414.4	7375.8	7414.4	7539.9	7652.4	7822.9	8032.0	8241.1	8427.7	8440.5	8530.6
7.5°	6796.8	6829.0	6890.1	7018.8	7231.1	7491.6	7794.0	8167.1	8520.9	8553.1	8730.0
10°	6169.6	6240.3	6340.0	6536.3	6832.2	7169.9	7581.7	8115.6	8668.9	8713.9	9019.5
12.5°	5590.6	5622.7	5745.0	6008.7	6375.4	6851.5	7420.8	8086.7	8833.0	8887.6	9328.3
15°	5146.7	5188.5	5294.6	5532.7	5941.2	6552.3	7289.0	8077.0	8993.8	9071.0	9637.1
17.5°	5063.0	5088.8	5133.8	5294.6	5651.7	6314.3	7169.9	8073.8	9148.2	9241.5	9923.4
20°	5407.2	5384.7	5339.7	5323.6	5519.8	6131.0	7083.1	8099.6	9296.2	9402.3	10225.8
22.5°	6269.3	6298.2	6034.5	5722.4	5658.1	6102.0	7070.2	8221.8	9531.0	9656.4	10563.5
25°	8099.6	7877.6	7465.9	6719.6	6156.7	6278.9	7215.0	8511.3	9804.4	9942.7	10869.1
27.5°	10122.8	10055.3	9415.2	8186.4	7137.8	6652.1	7472.3	8733.2	9894.5	10036.0	11042.8
30°	12110.7	12191.2	11457.8	10100.3	8562.8	7343.6	7713.6	8816.9	9974.9	10122.8	11264.8
32.5°	13953.9	14050.4	13407.1	12062.5	10241.9	8540.2	8128.5	9141.8	10312.6	10463.8	11634.7
35°	15404.6	15417.5	14931.8	13860.6	12075.4	9994.2	9026.0	9711.1	10769.4	10946.3	12027.1
37.5°	16736.3	16717.0	16147.7	15224.5	13603.3	11438.5	10155.0	10367.3	11290.5	11473.8	12593.2
40°	17723.8	17736.7	17553.3	16684.8	15028.3	12773.4	11049.2	10981.7	12165.4	12451.7	13416.7
42.5°	18383.2	18502.3	18592.3	18151.6	16819.9	14417.1	12422.8	12297.3	13683.7	13921.7	14581.1
45°	18917.2	19129.5	19579.8	19557.3	18540.9	16433.9	14307.7	14050.4	15835.6	16089.8	16064.0
47.5°	19306.4	19521.9	20268.2	20718.5	20158.8	18389.7	16678.4	16456.5	18405.8	18682.4	17701.3
50°	19505.9	19763.2	20715.3	21587.0	21423.0	20274.6	19380.4	19393.3	21509.8	21776.8	19599.1
52.5°	19039.4	19374.0	20953.4	22523.1	22841.5	22079.2	21911.9	22336.5	24273.0	24501.3	21313.6
55°	17550.1	17971.5	20628.5	23320.8	24485.3	24208.6	24787.6	25434.2	27293.4	27441.4	23073.1
57.5°	16607.6	17054.8	19669.9	23999.5	26460.3	26884.9	27801.6	28274.5	30410.3	30786.7	25093.2
60°	15813.1	16163.7	18881.8	24144.3	28467.5	30159.4	31050.5	31539.4	34257.5	34501.9	27315.9
62.5°	14491.1	14893.2	17550.1	23134.3	29477.5	32781.0	34627.4	34408.7	37232.9	37403.4	28679.8
65°	12364.9	12400.2	14848.1	20596.3	28435.3	34482.6	37139.6	36222.9	38654.7	38770.5	28573.6
67.5°	9228.6	9569.6	11422.4	16189.5	24018.8	33028.7	37953.4	36271.1	37757.2	37435.5	26305.9
70°	5944.4	6204.9	7742.5	11226.2	17318.5	27563.6	35254.6	33784.6	33138.1	32424.0	21532.4
72.5°	2743.8	3078.3	4599.8	6414.0	10270.8	19634.5	28618.7	27447.8	23851.6	22088.8	13686.9
75°	1196.6	1280.2	2271.0	3383.9	4815.3	10383.4	18869.0	17038.7	10772.6	9839.8	5478.0
77.5°	730.2	784.9	1190.2	1814.2	1891.4	3956.5	10164.7	7433.7	3329.2	2936.8	1486.1
80°	495.4	556.5	865.3	948.9	646.5	1103.3	3815.0	1984.7	672.3	643.3	318.4
82.5°	241.2	305.6	640.1	530.7	279.8	353.8	1109.7	424.6	196.2	183.3	112.6
85°	35.4	61.1	360.3	347.4	125.4	83.6	196.2	106.1	67.5	64.3	51.5
87.5°	0.0	0.0	122.2	54.7	12.9	12.9	22.5	22.5	25.7	22.5	25.7
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°	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4
2.5°	8398.7	8414.8	8353.7	8266.8	8173.5	8080.3	7948.4	7829.4	7758.6	7800.4	7697.5
5°	8549.9	8537.0	8376.2	8112.4	7761.8	7340.4	6922.3	6565.2	6449.4	6275.7	6256.4
7.5°	8759.0	8723.6	8382.6	7777.9	6986.6	6195.3	5423.3	4911.8	4619.1	4371.4	4377.9
10°	9051.7	8948.8	8308.6	7189.2	5886.5	4693.1	3708.8	3033.3	2740.6	2647.3	2573.3
12.5°	9354.1	9154.6	8102.8	6394.7	4583.7	3207.0	2254.9	1843.1	1663.0	1605.1	1598.7
15°	9624.3	9309.0	7742.5	5439.4	3332.5	2049.0	1537.6	1402.5	1379.9	1383.2	1379.9
17.5°	9891.2	9431.3	7243.9	4426.1	2264.5	1470.0	1322.0	1289.9	1299.5	1312.4	1309.2
20°	10113.2	9457.0	6607.0	3377.5	1601.9	1289.9	1241.6	1235.2	1244.8	1254.5	1254.5
22.5°	10354.4	9476.3	5851.1	2338.5	1309.2	1199.8	1174.1	1174.1	1186.9	1199.8	1203.0
25°	10534.6	9370.1	4947.2	1679.1	1154.8	1113.0	1100.1	1103.3	1116.2	1122.6	1119.4
27.5°	10563.5	9071.0	3988.7	1286.7	1048.6	1006.8	993.9	1006.8	990.7	1000.4	993.9
30°	10589.3	8691.4	3017.2	1084.0	952.1	887.8	868.5	849.2	836.3	820.2	817.0
32.5°	10669.7	8244.3	2203.4	974.6	862.1	791.3	746.3	691.6	649.8	636.9	633.7
35°	10705.1	7707.1	1618.0	887.8	781.6	704.4	624.0	546.8	485.7	463.2	479.3
37.5°	10840.2	7186.0	1254.5	823.5	710.9	614.4	511.4	414.9	357.0	344.2	350.6
40°	11116.8	6619.9	1051.8	768.8	649.8	530.7	405.3	312.0	273.4	260.5	257.3
42.5°	11560.7	6057.0	936.0	717.3	588.6	447.1	318.4	244.5	212.3	202.6	202.6
45°	12101.1	5516.6	855.6	662.6	524.3	360.3	250.9	196.2	176.9	170.5	170.5
47.5°	12812.0	5043.7	788.1	607.9	453.5	286.3	202.6	170.5	157.6	160.8	164.0
50°	13532.5	4693.1	714.1	546.8	373.1	234.8	173.7	151.2	148.0	151.2	151.2
52.5°	14076.1	4487.2	614.4	463.2	292.7	196.2	154.4	141.5	138.3	131.9	131.9
55°	14809.5	4442.2	488.9	376.3	231.6	164.0	138.3	128.7	119.0	112.6	109.4
57.5°	15752.0	4493.7	376.3	292.7	180.1	135.1	122.2	106.1	93.3	80.4	80.4
60°	16337.4	4377.9	292.7	225.2	131.9	109.4	93.3	77.2	61.1	51.5	48.2
62.5°	16150.9	3888.9	231.6	167.3	93.3	80.4	61.1	51.5	35.4	25.7	22.5
65°	15189.1	3139.5	186.6	115.8	67.5	48.2	32.2	32.2	16.1	3.2	0.0
67.5°	13294.5	2325.6	148.0	77.2	38.6	22.5	16.1	9.6	0.0	0.0	0.0
70°	10820.9	1679.1	115.8	48.2	22.5	16.1	6.4	3.2	0.0	0.0	0.0
72.5°	6870.8	961.8	90.1	28.9	16.1	6.4	0.0	0.0	0.0	0.0	0.0
75°	2657.0	376.3	61.1	19.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	752.7	176.9	35.4	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	196.2	77.2	19.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	93.3	32.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.7	12.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)