

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: P456094

Luminaire Tested: **GALN-SA7B-750-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456094  
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-SA7B-750-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA 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: 29628 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

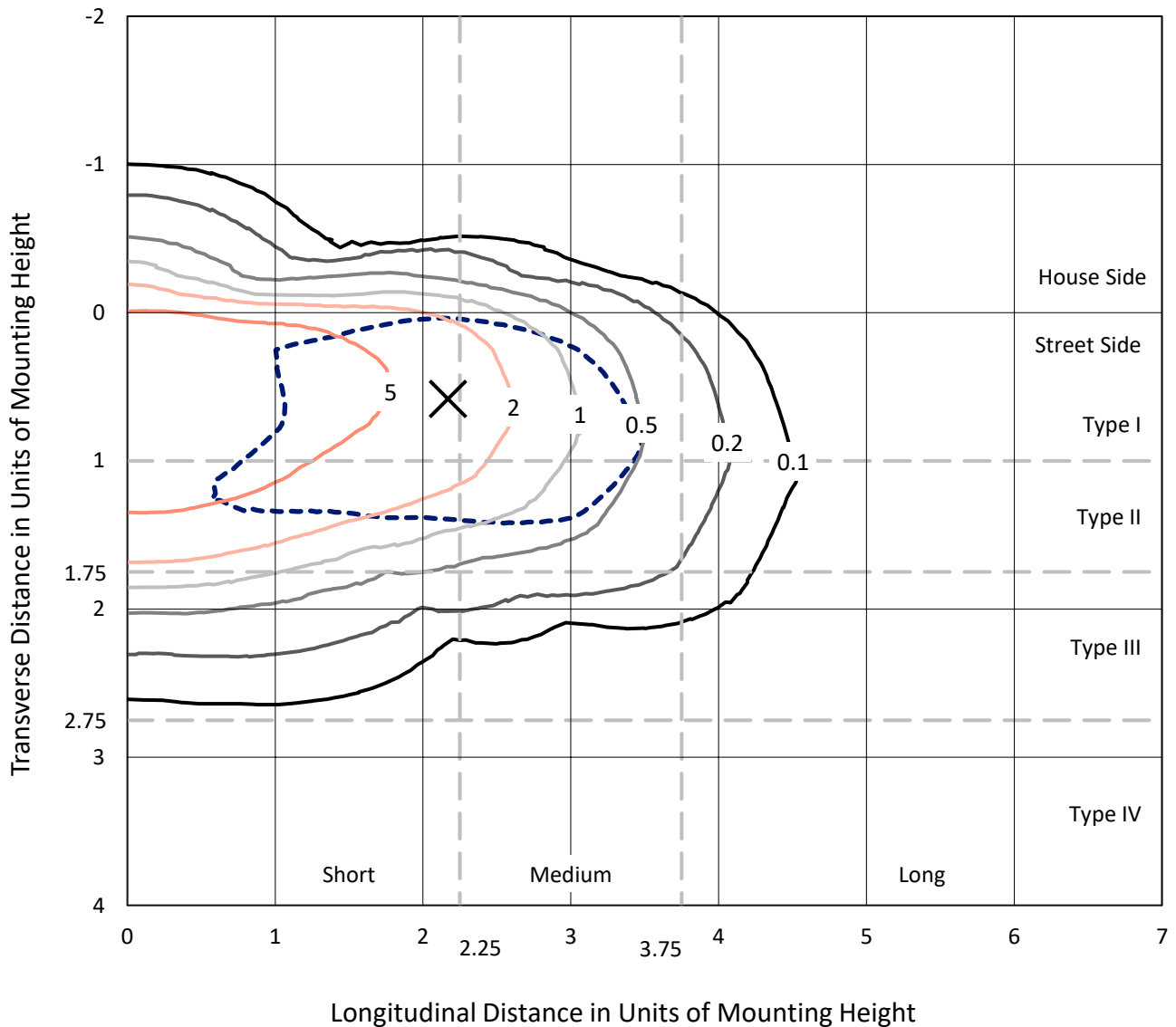
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

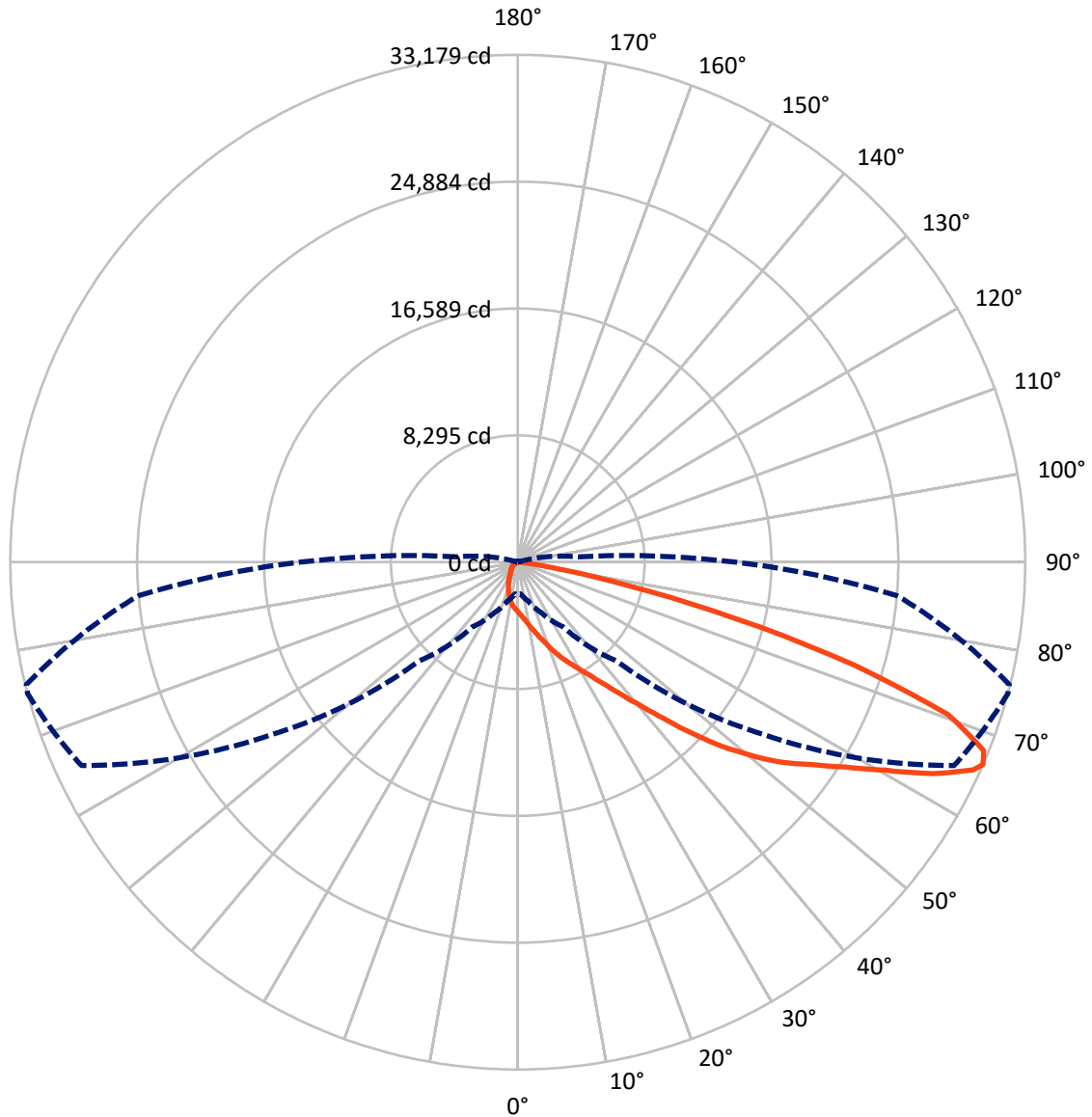
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	1829.1	0.0	1829.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	27798.9	0.0	27798.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	29628.0	0.0	29628.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.5	1.1
10°-20°	919.7	3.1
20°-30°	1588.2	5.4
30°-40°	2864.8	9.7
40°-50°	5175.3	17.5
50°-60°	8068.3	27.2
60°-70°	7664.6	25.9
70°-80°	2872.5	9.7
80°-90°	162.1	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°	29628.0	100.0
0°-180°	29628.0	100.0

**Coefficient of Utilization**



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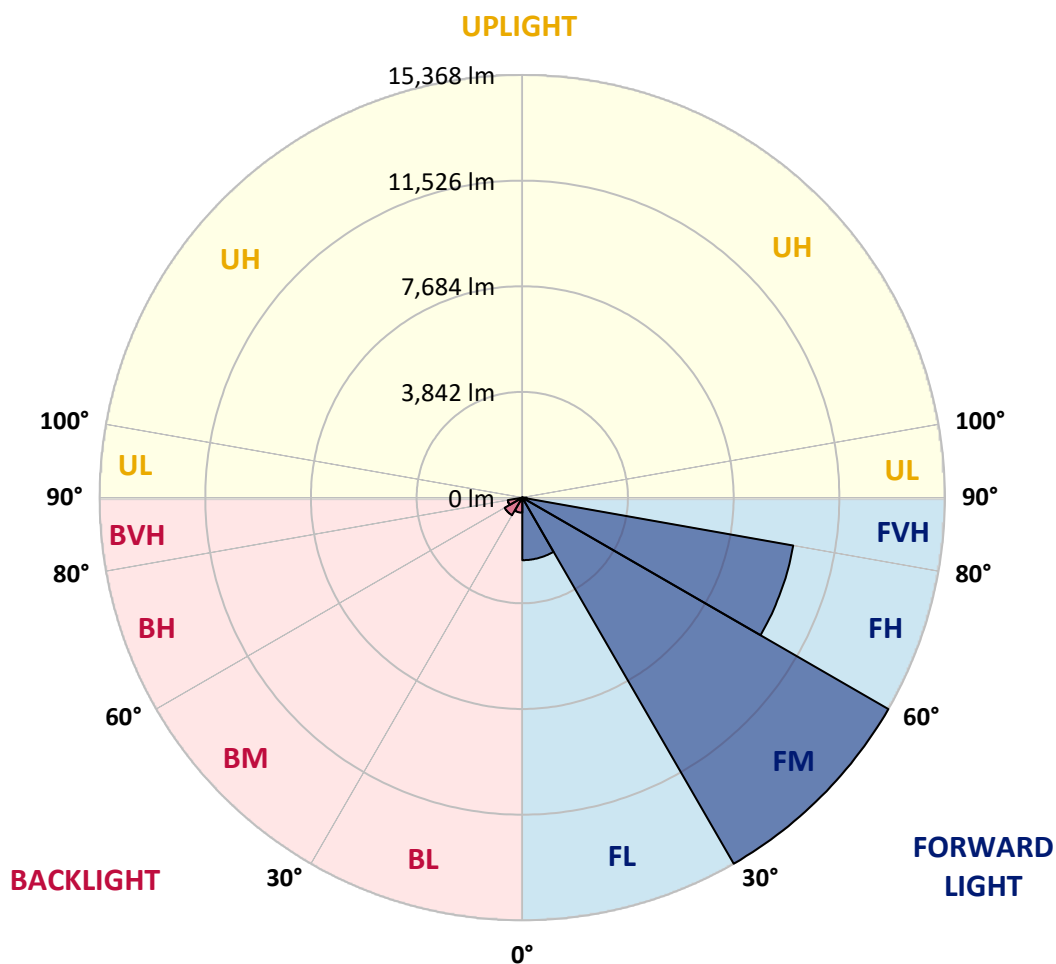
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2274.2	7.7			
FM (30°-60°)	15368.0	51.9			
FH (60°-80°)	10003.0	33.8			G4/12000
FVH (80°-90°)	153.7	0.5			G2/225
BL (0°-30°)	546.3	1.8	B2/1000		
BM (30°-60°)	740.4	2.5	B1/1000		
BH (60°-80°)	534.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.4	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°	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1
2.5°	3871.0	3822.9	3838.2	3816.3	3765.9	3691.4	3625.7	3531.5	3437.3	3421.9	3316.8
5°	4381.5	4368.3	4350.8	4287.3	4252.2	4138.3	4002.5	3840.4	3645.4	3610.4	3419.8
7.5°	4729.8	4723.3	4732.0	4699.2	4668.5	4565.5	4420.9	4199.7	3897.3	3877.6	3560.0
10°	4843.7	4861.3	4894.1	4946.7	4994.9	4962.0	4852.5	4576.5	4223.8	4166.8	3719.9
12.5°	4778.0	4797.7	4876.6	5016.8	5172.4	5262.2	5218.4	5016.8	4569.9	4523.9	3899.5
15°	4609.3	4633.4	4745.2	4962.0	5240.3	5494.4	5603.9	5459.3	4973.0	4898.5	4116.4
17.5°	4359.6	4394.6	4554.6	4841.6	5222.7	5660.9	5969.8	5921.6	5402.4	5332.3	4353.0
20°	4171.2	4197.5	4333.3	4661.9	5148.3	5752.9	6318.1	6453.9	5932.5	5812.1	4631.2
22.5°	4296.1	4304.8	4350.8	4548.0	5014.6	5777.0	6624.8	7008.2	6495.6	6388.2	4920.4
25°	4907.3	4819.6	4773.6	4729.8	4986.1	5755.1	6903.0	7586.6	7056.4	6942.5	5207.4
27.5°	5871.2	5831.8	5599.5	5288.5	5229.3	5783.6	7087.1	8134.2	7584.4	7461.7	5487.8
30°	6920.6	6852.7	6710.3	6254.6	5796.7	5985.1	7220.7	8666.6	8208.7	8046.6	5744.1
32.5°	7884.5	7928.3	7715.8	7247.0	6716.8	6414.5	7393.8	9247.1	8925.1	8723.6	6042.1
35°	9008.4	9096.0	8769.6	8320.5	7700.5	7190.0	7731.1	9902.2	9834.3	9580.1	6502.1
37.5°	10149.7	10202.3	10003.0	9372.0	8813.4	8175.9	8366.5	10710.6	10953.7	10736.9	7052.0
40°	11109.3	11181.6	11034.8	10474.0	9878.1	9317.2	9288.8	11591.2	12285.7	12062.3	7871.4
42.5°	11843.2	11897.9	11902.3	11505.8	10969.1	10714.9	10465.2	12715.1	13955.1	13696.5	8822.1
45°	12769.9	12848.7	12802.7	12533.3	12132.4	12086.4	11957.1	14073.4	15953.0	15626.6	10055.5
47.5°	14202.6	14255.2	14141.3	13823.6	13416.1	13488.4	13411.8	15595.9	17990.4	17710.0	11332.7
50°	15197.2	15284.8	15447.0	15574.0	15278.3	15011.0	14783.2	17017.7	19924.8	19672.9	12638.4
52.5°	15186.3	15330.8	15843.5	16483.2	17129.5	17048.4	16393.4	18588.5	21771.6	21460.6	13865.2
55°	14163.2	14443.6	15197.2	16332.0	18121.9	19013.5	18715.6	20406.8	23366.5	23156.2	15287.0
57.5°	12051.3	12222.2	13269.4	14855.5	17567.6	19938.0	21405.8	22871.4	25279.0	25180.4	17495.3
60°	8105.8	8182.4	9529.7	11490.5	14956.2	19015.7	23377.5	25853.0	27634.1	27585.9	20073.8
62.5°	4644.4	4677.2	5654.3	7308.3	10642.6	16115.1	23544.0	29531.3	30458.0	30484.2	23057.6
65°	2499.6	2517.2	3305.8	4289.5	6475.8	11486.1	21171.4	31546.8	32740.7	32791.1	24906.6
66°	2157.9	2074.6	2631.1	3656.4	5152.6	9142.0	19670.7	31474.5	33178.9	33124.1	24840.9
67.5°	1640.9	1715.4	2100.9	2810.7	3818.5	6499.9	16240.0	30074.6	32845.9	32675.0	23830.9
70°	1174.2	1204.9	1496.3	2004.5	2600.4	3566.5	10377.6	24978.9	29853.3	29623.3	20761.7
72.5°	758.0	790.9	1060.3	1450.3	1879.7	1947.6	5809.9	18047.4	23016.0	22983.1	15635.4
75°	541.1	571.8	701.0	1038.4	1413.0	1204.9	2797.6	12163.0	14632.0	14533.4	9672.1
77.5°	392.1	407.5	468.8	679.1	1009.9	863.2	1296.9	6495.6	7284.2	7628.2	4274.1
80°	225.6	238.8	326.4	414.1	683.5	589.3	620.0	2607.0	2688.0	2558.8	1336.4
82.5°	111.7	127.1	195.0	282.6	427.2	396.5	284.8	784.3	828.1	806.2	337.4
85°	26.3	32.9	109.5	186.2	208.1	177.5	138.0	230.0	284.8	278.2	129.3
87.5°	2.2	4.4	39.4	32.9	35.1	59.2	48.2	59.2	92.0	85.4	46.0
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°	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1	3240.1
2.5°	3268.6	3227.0	3106.5	2988.2	2889.6	2786.6	2692.4	2637.7	2615.8	2591.7	2602.6
5°	3314.6	3213.8	2970.7	2760.3	2554.4	2379.2	2238.9	2149.1	2105.3	2098.7	2087.8
7.5°	3375.9	3202.9	2826.1	2497.5	2228.0	2033.0	1873.1	1743.8	1704.4	1669.3	1640.9
10°	3450.4	3183.2	2646.4	2221.4	1934.4	1689.1	1478.8	1325.4	1246.5	1224.6	1240.0
12.5°	3529.3	3145.9	2458.0	1967.3	1636.5	1323.2	1128.2	1051.6	1029.7	1020.9	1023.1
15°	3608.2	3099.9	2260.9	1721.9	1303.5	1055.9	966.1	946.4	937.6	933.3	928.9
17.5°	3680.5	3025.4	2039.6	1483.1	1055.9	902.6	869.7	852.2	834.7	828.1	817.1
20°	3765.9	2940.0	1840.2	1215.9	893.8	817.1	777.7	744.9	718.6	701.0	698.8
22.5°	3847.0	2830.4	1632.1	1007.7	815.0	733.9	670.4	635.3	604.6	582.7	589.3
25°	3890.8	2696.8	1445.9	878.5	742.7	650.7	580.5	536.7	503.9	492.9	490.7
27.5°	3890.8	2532.5	1264.1	804.0	676.9	576.2	503.9	462.2	440.3	425.0	427.2
30°	3860.1	2350.7	1095.4	747.0	620.0	510.4	442.5	405.3	387.8	376.8	374.6
32.5°	3836.0	2177.6	950.8	692.3	560.8	453.5	394.3	365.9	348.3	337.4	337.4
35°	3873.2	2028.6	839.1	637.5	506.1	409.7	357.1	330.8	313.3	304.5	302.3
37.5°	3971.8	1892.8	753.6	578.4	455.7	372.4	330.8	300.1	282.6	271.7	267.3
40°	4215.0	1816.1	690.1	523.6	407.5	341.8	300.1	271.7	249.7	238.8	236.6
42.5°	4604.9	1818.3	628.7	473.2	370.2	315.5	273.8	241.0	216.9	205.9	203.7
45°	5192.1	1901.6	580.5	425.0	337.4	287.0	245.4	210.3	188.4	177.5	177.5
47.5°	5895.3	2063.7	538.9	383.4	306.7	260.7	216.9	181.8	159.9	151.2	151.2
50°	6657.7	2274.0	497.3	339.6	280.4	232.2	186.2	157.7	140.2	133.6	133.6
52.5°	7435.4	2528.1	455.7	304.5	251.9	201.5	159.9	140.2	124.9	120.5	118.3
55°	8456.3	2852.4	411.9	267.3	221.3	173.1	142.4	122.7	105.2	98.6	96.4
57.5°	10027.0	3340.9	363.7	234.4	181.8	144.6	122.7	103.0	83.2	72.3	70.1
60°	11922.0	3936.8	313.3	205.9	146.8	118.3	98.6	78.9	61.3	48.2	46.0
62.5°	13696.5	4315.8	265.1	173.1	116.1	89.8	70.1	59.2	43.8	30.7	28.5
65°	14480.8	4188.7	219.1	140.2	92.0	63.5	46.0	41.6	26.3	13.1	11.0
66°	14220.1	4000.3	201.5	127.1	83.2	54.8	39.4	35.1	19.7	6.6	6.6
67.5°	13451.2	3555.6	175.3	109.5	72.3	43.8	30.7	26.3	11.0	2.2	0.0
70°	11525.5	2876.5	138.0	81.1	52.6	30.7	17.5	13.1	6.6	0.0	0.0
72.5°	8852.8	2142.6	109.5	61.3	37.2	17.5	8.8	4.4	6.6	0.0	0.0
75°	5424.3	1224.6	85.4	46.0	24.1	11.0	6.6	0.0	6.6	2.2	0.0
77.5°	2407.6	549.9	57.0	30.7	17.5	8.8	4.4	0.0	4.4	2.2	0.0
80°	609.0	179.6	32.9	21.9	13.1	6.6	2.2	0.0	4.4	4.4	2.2
82.5°	166.5	65.7	24.1	17.5	11.0	6.6	2.2	0.0	4.4	4.4	4.4
85°	65.7	30.7	21.9	17.5	13.1	6.6	2.2	0.0	4.4	4.4	4.4
87.5°	30.7	21.9	21.9	19.7	15.3	6.6	2.2	0.0	4.4	2.2	4.4
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)