

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: P647605

Luminaire Tested: **GALN-SA8D-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40460.7 lumens
Efficiency: N/A
Efficacy: 82.1 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

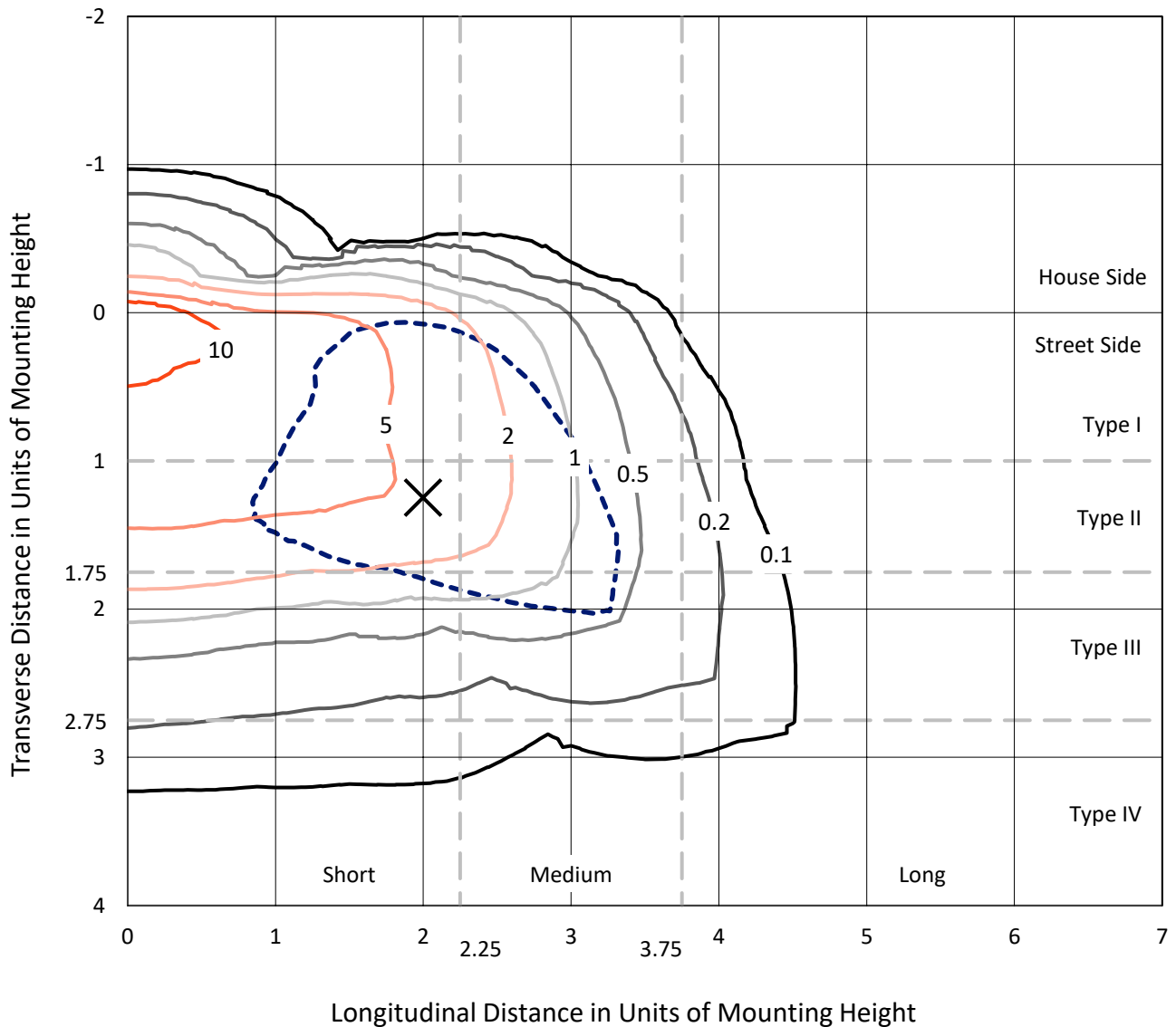
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

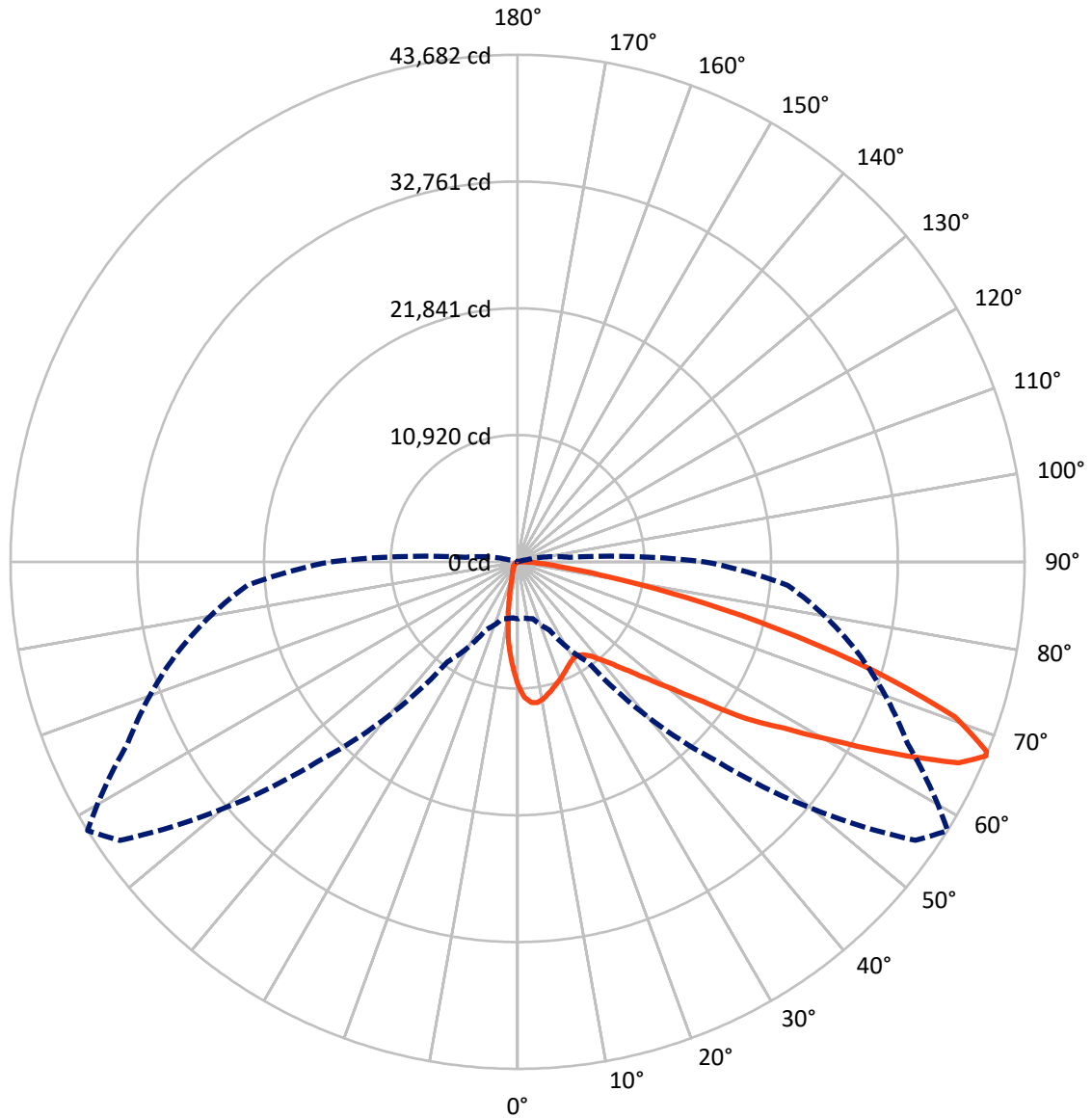
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2919.9	0.0	2919.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	37540.9	0.0	37540.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	40460.7	0.0	40460.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	870.4	2.2
10°-20°	1879.8	4.6
20°-30°	2547.3	6.3
30°-40°	3532.9	8.7
40°-50°	5634.5	13.9
50°-60°	9739.8	24.1
60°-70°	11125.9	27.5
70°-80°	4638.5	11.5
80°-90°	491.8	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°	40460.7	100.0
0°-180°	40460.7	100.0

Coefficient of Utilization



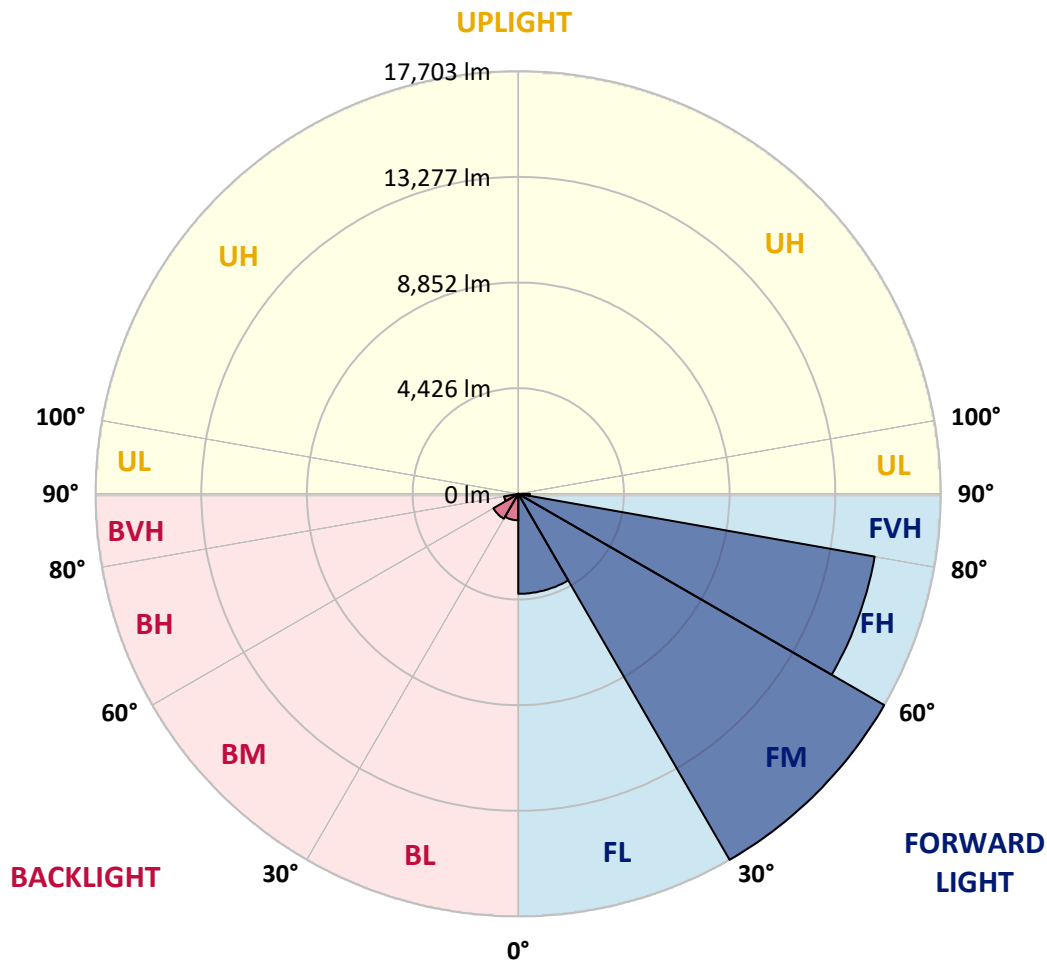
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4188.7	10.4			
FM (30°-60°)	17703.3	43.8			
FH (60°-80°)	15160.7	37.5			G5
FVH (80°-90°)	488.2	1.2			G3/500
BL (0°-30°)	1108.7	2.7	B3/2500		
BM (30°-60°)	1203.9	3.0	B2/2500		
BH (60°-80°)	603.6	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.6	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°	58°	65°	75°	85°
0°	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8
2.5°	12448.1	12467.0	12396.7	12339.9	12193.9	12037.1	11828.9	11718.1	11528.8	11201.6	10839.3
5°	12740.0	12764.4	12753.6	12740.0	12683.3	12531.8	12266.9	12169.5	11891.1	11358.4	10704.2
7.5°	12091.2	12180.4	12191.2	12296.6	12396.7	12410.2	12310.2	12237.2	11980.3	11355.8	10463.5
10°	11231.4	11290.9	11377.4	11499.1	11739.7	11939.7	12037.1	12026.3	11877.6	11271.9	10182.3
12.5°	10363.5	10395.9	10528.4	10736.6	11031.3	11372.0	11631.5	11682.9	11685.6	11171.9	9947.1
15°	9617.2	9603.7	9706.5	9947.1	10360.7	10787.9	11253.0	11334.1	11463.9	11074.5	9728.1
17.5°	8979.1	9049.4	9065.7	9330.6	9711.9	10266.1	10858.3	11001.5	11261.1	10990.7	9547.0
20°	8584.4	8622.2	8657.4	8806.1	9149.5	9733.5	10487.8	10685.2	11071.9	10915.0	9344.2
22.5°	8468.1	8492.5	8462.7	8508.7	8752.1	9271.2	10085.0	10347.3	10890.7	10844.7	9179.3
25°	8557.3	8581.7	8511.4	8457.3	8541.1	8895.3	9695.7	10014.6	10744.7	10831.2	9054.8
27.5°	8773.7	8819.6	8722.3	8625.0	8576.3	8692.6	9390.1	9760.6	10644.7	10896.1	8998.1
30°	9111.6	9138.7	9065.7	8946.7	8835.8	8719.6	9230.6	9584.8	10617.6	11047.5	8992.7
32.5°	9479.3	9536.2	9495.6	9417.1	9273.9	8998.1	9276.6	9590.2	10682.5	11266.5	9060.2
35°	9933.6	9998.4	10036.3	10020.1	9836.2	9492.9	9568.6	9833.5	10855.5	11669.4	9244.1
37.5°	10379.7	10436.5	10650.1	10723.0	10560.9	10236.4	10136.3	10312.1	11236.8	12196.6	9576.7
40°	10890.7	10966.4	11266.5	11545.0	11466.6	11126.0	10942.0	11088.1	11820.8	12991.5	10206.6
42.5°	11380.0	11515.3	11972.2	12464.3	12537.3	12156.1	12034.4	12083.0	12686.0	14135.2	11085.4
45°	12075.0	12202.0	12791.4	13459.3	13802.6	13505.3	13380.8	13372.8	13873.0	15743.9	12510.2
47.5°	13078.1	13191.6	13886.4	14546.2	15157.2	15197.8	14962.6	15043.6	15365.4	17625.7	14256.9
50°	14308.2	14575.9	15032.8	15719.6	16536.1	17195.9	17268.8	17160.7	17436.5	19805.0	16355.0
52.5°	16095.4	16198.2	16617.2	17182.3	18139.4	19258.8	20126.7	19978.0	19891.5	21881.4	18474.7
55°	17428.3	17566.3	18217.8	18993.9	20397.1	21873.3	23755.1	23806.5	22714.2	23876.8	20548.5
57.5°	17025.5	17236.4	18223.2	19783.4	22868.3	25566.7	26967.2	27002.3	25326.0	25815.4	22889.9
60°	14957.1	15057.2	16471.3	18553.1	23079.2	29568.2	31523.0	31239.1	27983.8	27983.8	24958.3
62.5°	10606.8	10763.6	11910.0	14973.4	20843.2	30957.9	36979.1	36392.4	31644.7	30057.6	26191.2
65°	6778.3	6626.9	7386.7	9452.3	15527.6	28905.8	41729.7	41764.8	35089.3	30887.6	25518.0
67°	4910.0	4850.5	5069.5	6461.9	10528.4	24298.6	41829.7	43681.8	37068.4	30363.1	23365.8
67.5°	4490.9	4536.9	4696.4	5829.3	9565.8	22111.3	41375.4	43568.2	37514.5	30046.8	22587.1
70°	3404.0	3325.6	3498.7	4123.2	5734.6	13948.7	35592.1	39958.7	36960.3	26907.7	18047.5
72.5°	2503.6	2495.6	2736.2	3371.6	4415.3	7429.9	26718.5	32039.4	30195.5	20489.0	11363.8
75°	1689.9	1765.6	2149.5	2817.3	4001.5	4818.1	18215.2	23244.1	20962.2	11634.2	4645.1
77.5°	962.5	967.9	1384.3	2263.0	3593.3	3877.2	10793.3	14808.4	11096.2	3869.0	1378.9
80°	416.4	457.0	686.8	1643.9	2979.5	3433.8	6188.9	8138.3	4488.2	819.3	446.2
82.5°	154.1	181.2	302.8	1011.2	2173.8	2828.1	3739.3	3885.3	1522.2	289.3	278.5
85°	0.0	5.4	110.9	473.2	1132.8	1262.7	2498.2	2303.6	673.2	137.9	181.2
87.5°	0.0	0.0	0.0	48.7	148.7	470.4	776.0	865.2	162.2	48.7	43.2
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°	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8	10725.8
2.5°	10644.7	10468.9	10028.2	9587.5	9260.3	8987.3	8576.3	8351.9	8232.9	8057.1	8068.0
5°	10377.0	10020.1	9244.1	8441.1	7792.2	7159.5	6402.5	6097.0	5840.1	5694.1	5596.7
7.5°	9979.6	9452.3	8303.2	7232.5	6234.9	5129.0	4299.0	3744.7	3371.6	3233.7	3101.2
10°	9544.2	8844.0	7348.8	5864.4	4480.1	3339.1	2636.1	2127.9	1946.7	1779.1	1795.3
12.5°	9141.4	8289.7	6472.7	4628.8	3139.0	2122.5	1654.7	1446.5	1387.0	1368.1	1368.1
15°	8811.5	7759.8	5531.9	3479.7	2152.2	1524.9	1324.8	1268.1	1246.5	1241.1	1241.1
17.5°	8460.0	7256.8	4682.9	2571.3	1565.5	1276.1	1208.6	1170.7	1162.6	1157.2	1157.2
20°	8146.4	6751.3	3877.2	1914.3	1265.3	1149.1	1105.8	1081.5	1073.4	1068.0	1070.7
22.5°	7848.9	6302.4	3120.1	1446.5	1114.0	1046.3	1003.1	978.8	962.5	949.0	951.7
25°	7584.0	5869.8	2509.0	1184.2	1003.1	943.6	900.4	865.2	830.1	813.9	811.1
27.5°	7397.5	5491.3	1954.8	1013.9	903.0	838.1	784.1	740.8	694.8	670.6	665.2
30°	7243.4	5107.4	1546.6	895.0	803.0	740.8	673.2	611.1	562.4	538.1	527.2
32.5°	7143.3	4742.4	1219.4	797.6	719.2	643.5	567.8	505.6	451.6	427.2	421.8
35°	7127.1	4436.9	997.7	716.5	643.5	562.4	484.0	416.4	370.4	346.1	340.7
37.5°	7243.4	4201.7	835.5	651.6	581.3	492.1	405.6	343.3	302.8	283.9	281.2
40°	7554.3	4052.9	724.6	597.5	524.5	427.2	346.1	292.0	251.4	232.6	232.6
42.5°	8146.4	4058.3	651.6	546.1	467.8	365.0	294.7	243.4	208.2	192.0	186.6
45°	9071.1	4242.2	589.4	494.8	413.7	316.3	251.4	200.1	164.9	151.4	151.4
47.5°	10309.4	4607.2	535.3	443.4	365.0	270.4	213.6	162.2	132.5	118.9	118.9
50°	11928.9	5193.9	489.4	400.2	324.5	232.6	173.0	132.5	102.7	91.9	89.3
52.5°	13621.5	5918.5	435.3	362.3	278.5	197.4	140.6	102.7	78.4	70.3	67.6
55°	15489.8	6626.9	383.9	324.5	227.1	164.9	110.9	81.1	56.8	48.7	48.7
57.5°	17374.3	7321.8	321.7	270.4	178.4	121.7	86.5	59.5	37.8	29.8	29.8
60°	18969.5	7546.2	273.1	219.0	135.2	86.5	62.2	37.8	21.6	13.5	13.5
62.5°	19188.5	6789.1	229.8	167.6	97.3	59.5	32.4	21.6	8.1	5.4	5.4
65°	17998.8	5515.6	192.0	127.1	64.9	29.8	13.5	8.1	2.7	0.0	0.0
67°	16127.8	4472.0	156.8	94.7	46.0	18.9	8.1	2.7	0.0	0.0	0.0
67.5°	15649.3	4263.8	151.4	89.3	40.6	16.2	5.4	2.7	0.0	0.0	0.0
70°	12280.4	3193.2	108.1	54.1	24.4	10.8	0.0	0.0	0.0	0.0	0.0
72.5°	7632.7	1806.1	78.4	32.4	16.2	5.4	0.0	0.0	0.0	0.0	0.0
75°	2884.9	632.7	54.1	21.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	897.6	240.6	32.4	16.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	302.8	91.9	21.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	186.6	37.8	13.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	116.3	16.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.6	5.4	2.7	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)