

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: P456520

Luminaire Tested: **GALN-SA7D-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456520
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-SA7D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 44572 lumens
Efficiency: N/A
Efficacy: 102.9 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

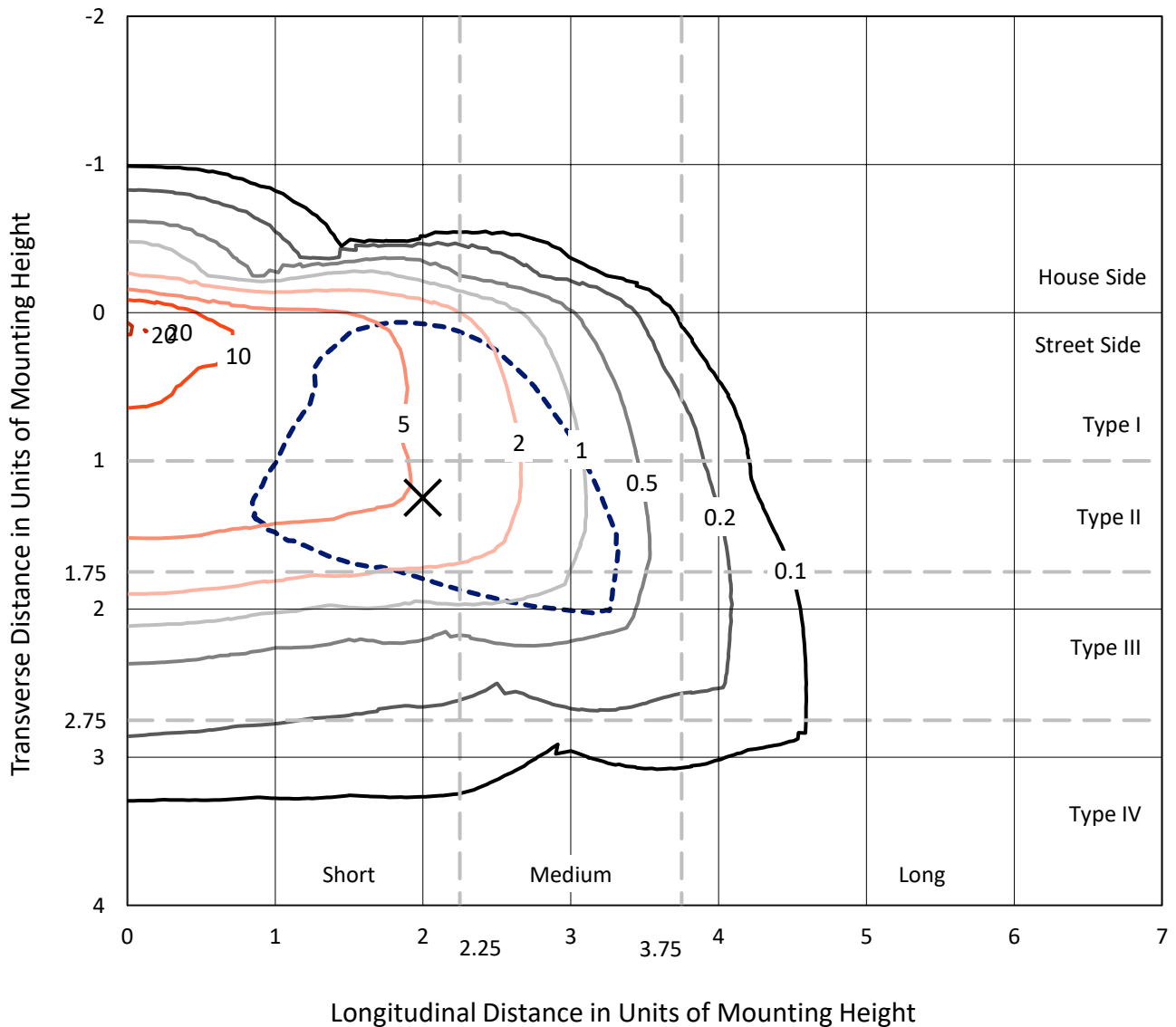
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

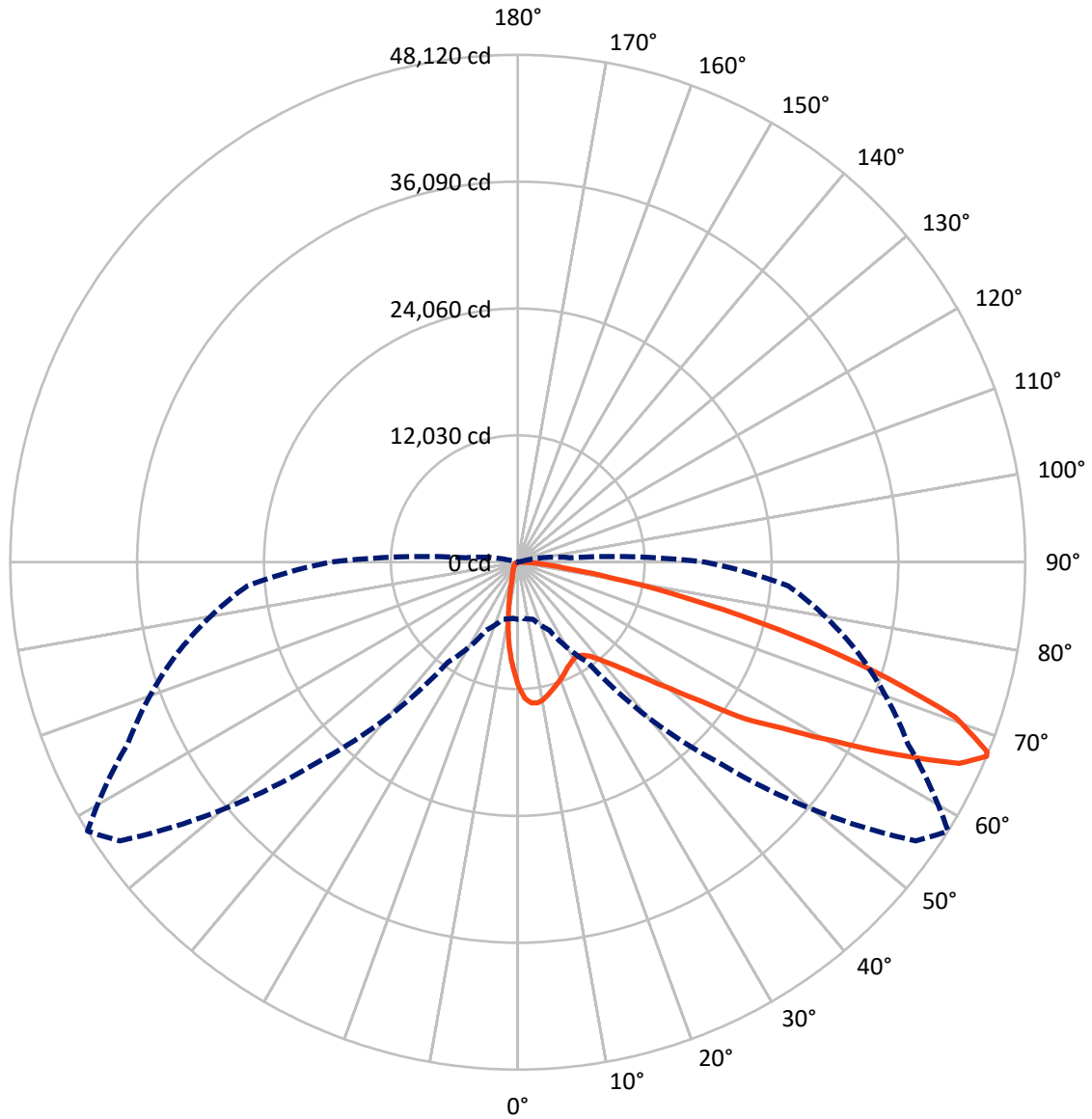
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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	3216.6	0.0	3216.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	41355.4	0.0	41355.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	44572.0	0.0	44572.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	958.8	2.2
10°-20°	2070.8	4.6
20°-30°	2806.1	6.3
30°-40°	3891.9	8.7
40°-50°	6207.1	13.9
50°-60°	10729.4	24.1
60°-70°	12256.4	27.5
70°-80°	5109.8	11.5
80°-90°	541.8	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°	44572.0	100.0
0°-180°	44572.0	100.0



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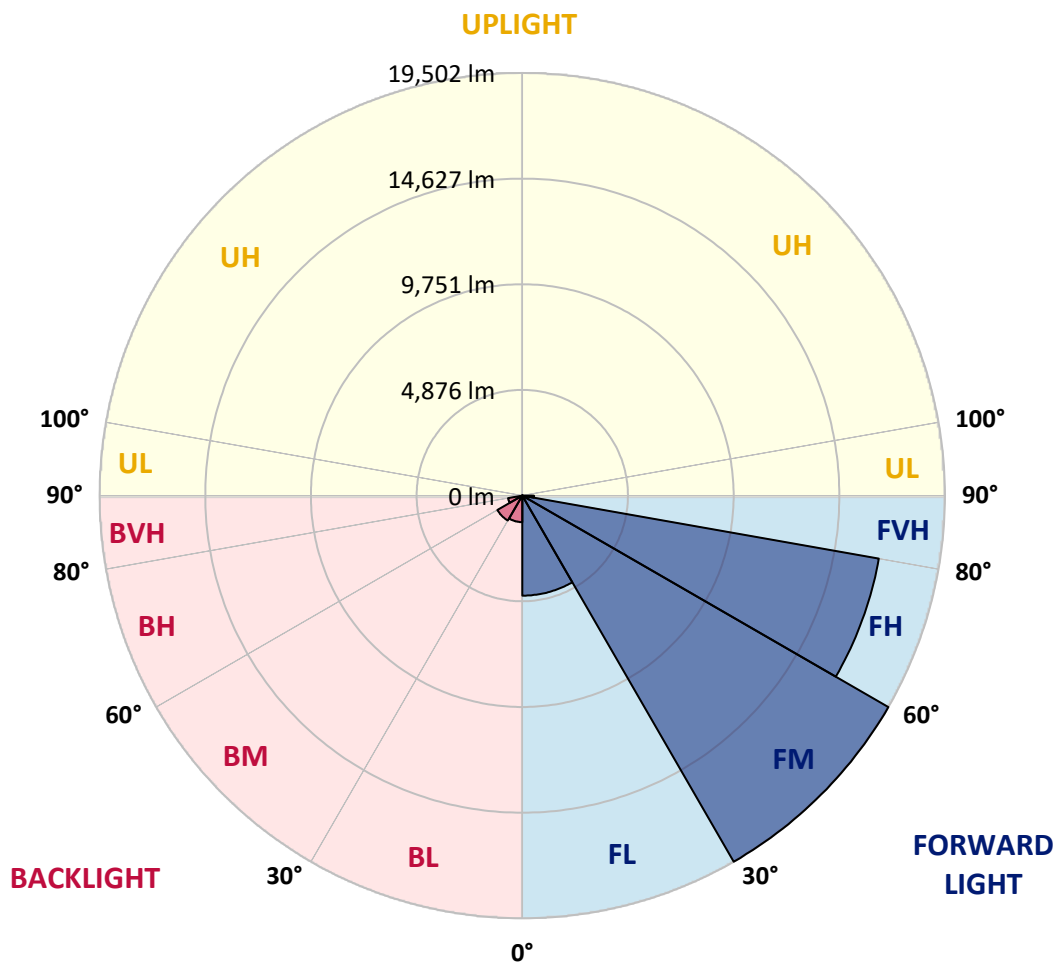
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4614.3	10.4			
FM	(30°-60°)	19502.1	43.8			
FH	(60°-80°)	16701.2	37.5			G5
FVH	(80°-90°)	537.9	1.2			G4/750
BL	(0°-30°)	1221.4	2.7	B3/2500		
BM	(30°-60°)	1326.3	3.0	B2/2500		
BH	(60°-80°)	665.0	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.9	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°	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6
2.5°	13712.9	13733.8	13656.3	13593.8	13432.9	13260.2	13030.8	12908.7	12700.2	12339.8	11940.7
5°	14034.6	14061.4	14049.5	14034.6	13972.0	13805.3	13513.4	13406.1	13099.4	12512.6	11791.8
7.5°	13319.8	13418.0	13430.0	13546.1	13656.3	13671.2	13561.0	13480.6	13197.6	12509.6	11526.7
10°	12372.6	12438.1	12533.4	12667.5	12932.6	13153.0	13260.2	13248.3	13084.5	12417.3	11217.0
12.5°	11416.5	11452.3	11598.2	11827.5	12152.2	12527.5	12813.4	12870.0	12873.0	12307.1	10957.8
15°	10594.5	10579.6	10692.7	10957.8	11413.5	11884.1	12396.4	12485.8	12628.8	12199.9	10716.6
17.5°	9891.5	9969.0	9986.8	10278.7	10698.7	11309.3	11961.6	12119.4	12405.4	12107.5	10517.0
20°	9456.7	9498.4	9537.1	9700.9	10079.2	10722.5	11553.5	11771.0	12196.9	12024.1	10293.6
22.5°	9328.6	9355.4	9322.6	9373.3	9641.3	10213.2	11109.7	11398.6	11997.3	11946.7	10111.9
25°	9426.9	9453.7	9376.3	9316.7	9409.0	9799.2	10680.8	11032.3	11836.5	11931.8	9974.9
27.5°	9665.2	9715.8	9608.6	9501.3	9447.7	9575.8	10344.3	10752.3	11726.3	12003.3	9912.4
30°	10037.5	10067.3	9986.8	9855.8	9733.7	9605.6	10168.5	10558.7	11696.5	12170.1	9906.4
32.5°	10442.5	10505.1	10460.4	10374.0	10216.2	9912.4	10219.2	10564.7	11768.0	12411.3	9980.9
35°	10942.9	11014.4	11056.1	11038.2	10835.7	10457.4	10540.8	10832.7	11958.6	12855.1	10183.4
37.5°	11434.4	11496.9	11732.2	11812.6	11633.9	11276.5	11166.3	11359.9	12378.6	13435.9	10549.8
40°	11997.3	12080.7	12411.3	12718.1	12631.7	12256.4	12053.9	12214.7	13021.9	14311.6	11243.8
42.5°	12536.4	12685.3	13188.7	13730.8	13811.2	13391.2	13257.2	13310.8	13975.0	15571.5	12211.8
45°	13301.9	13441.9	14091.2	14826.9	15205.1	14877.5	14740.5	14731.6	15282.6	17343.7	13781.4
47.5°	14406.9	14532.0	15297.5	16024.2	16697.4	16742.0	16482.9	16572.3	16926.7	19416.7	15705.5
50°	15762.1	16057.0	16560.3	17316.9	18216.4	18943.1	19023.5	18904.4	19208.2	21817.4	18016.8
52.5°	17730.9	17844.1	18305.7	18928.2	19982.6	21215.7	22171.8	22008.0	21912.7	24104.8	20351.9
55°	19199.3	19351.2	20069.0	20923.8	22469.6	24095.9	26168.9	26225.5	25022.2	26303.0	22636.4
57.5°	18755.5	18987.8	20075.0	21793.5	25192.0	28164.5	29707.4	29746.1	27899.4	28438.5	25215.8
60°	16476.9	16587.2	18144.9	20438.3	25424.3	32572.7	34726.1	34413.4	30827.3	30827.3	27494.3
62.5°	11684.6	11857.3	13120.2	16494.8	22961.1	34103.6	40736.7	40090.3	34860.1	33111.8	28852.5
65°	7467.0	7300.3	8137.2	10412.8	17105.4	31842.9	45969.9	46008.6	38654.7	34026.1	28110.9
67°	5408.9	5343.4	5584.6	7118.6	11598.2	26767.6	46080.1	48120.3	40835.0	33448.3	25740.0
67.5°	4947.3	4997.9	5173.6	6421.6	10537.9	24358.0	45579.7	47995.2	41326.4	33099.8	24882.2
70°	3749.9	3663.5	3854.2	4542.2	6317.4	15366.0	39208.7	44018.9	40715.8	29641.8	19881.4
72.5°	2758.1	2749.1	3014.2	3714.2	4863.9	8184.9	29433.3	35295.0	33263.7	22570.9	12518.5
75°	1861.5	1944.9	2367.9	3103.6	4408.1	5307.7	20066.0	25606.0	23092.2	12816.4	5117.0
77.5°	1060.3	1066.3	1525.0	2493.0	3958.4	4271.1	11890.1	16313.1	12223.7	4262.2	1519.0
80°	458.7	503.4	756.5	1810.9	3282.3	3782.7	6817.7	8965.2	4944.3	902.5	491.4
82.5°	169.8	199.6	333.6	1114.0	2394.7	3115.5	4119.2	4280.1	1676.9	318.7	306.8
85°	0.0	6.0	122.1	521.2	1248.0	1390.9	2752.1	2537.7	741.6	151.9	199.6
87.5°	0.0	0.0	0.0	53.6	163.8	518.3	854.8	953.1	178.7	53.6	47.7
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°	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6	11815.6
2.5°	11726.3	11532.7	11047.2	10561.7	10201.3	9900.5	9447.7	9200.5	9069.5	8875.9	8887.8
5°	11431.4	11038.2	10183.4	9298.8	8584.0	7887.0	7053.0	6716.5	6433.5	6272.7	6165.5
7.5°	10993.6	10412.8	9146.9	7967.4	6868.4	5650.2	4735.8	4125.2	3714.2	3562.3	3416.3
10°	10514.0	9742.6	8095.5	6460.3	4935.3	3678.4	2904.0	2344.1	2144.5	1959.8	1977.7
12.5°	10070.2	9132.0	7130.5	5099.2	3458.0	2338.1	1822.8	1593.5	1528.0	1507.1	1507.1
15°	9706.9	8548.2	6094.0	3833.3	2370.9	1679.9	1459.5	1396.9	1373.1	1367.1	1367.1
17.5°	9319.7	7994.2	5158.7	2832.5	1724.5	1405.8	1331.4	1289.7	1280.7	1274.8	1274.8
20°	8974.2	7437.3	4271.1	2108.8	1393.9	1265.9	1218.2	1191.4	1182.5	1176.5	1179.5
22.5°	8646.5	6942.8	3437.2	1593.5	1227.1	1152.7	1105.0	1078.2	1060.3	1045.4	1048.4
25°	8354.6	6466.3	2764.0	1304.6	1105.0	1039.5	991.8	953.1	914.4	896.5	893.5
27.5°	8149.1	6049.3	2153.4	1116.9	994.8	923.3	863.8	816.1	765.5	738.7	732.7
30°	7979.3	5626.3	1703.7	985.9	884.6	816.1	741.6	673.1	619.5	592.7	580.8
32.5°	7869.1	5224.3	1343.3	878.7	792.3	708.9	625.5	557.0	497.4	470.6	464.6
35°	7851.3	4887.7	1099.1	789.3	708.9	619.5	533.1	458.7	408.1	381.2	375.3
37.5°	7979.3	4628.6	920.4	717.8	640.4	542.1	446.8	378.3	333.6	312.7	309.8
40°	8321.9	4464.7	798.2	658.2	577.8	470.6	381.2	321.7	277.0	256.1	256.1
42.5°	8974.2	4470.7	717.8	601.7	515.3	402.1	324.7	268.1	229.3	211.5	205.5
45°	9992.8	4673.2	649.3	545.1	455.7	348.5	277.0	220.4	181.7	166.8	166.8
47.5°	11356.9	5075.3	589.7	488.5	402.1	297.8	235.3	178.7	145.9	131.1	131.1
50°	13141.1	5721.7	539.1	440.8	357.4	256.1	190.6	145.9	113.2	101.3	98.3
52.5°	15005.6	6519.9	479.5	399.1	306.8	217.4	154.9	113.2	86.4	77.4	74.5
55°	17063.7	7300.3	422.9	357.4	250.2	181.7	122.1	89.4	62.5	53.6	53.6
57.5°	19139.7	8065.7	354.4	297.8	196.6	134.0	95.3	65.5	41.7	32.8	32.8
60°	20897.0	8312.9	300.8	241.3	148.9	95.3	68.5	41.7	23.8	14.9	14.9
62.5°	21138.3	7479.0	253.2	184.7	107.2	65.5	35.7	23.8	8.9	6.0	6.0
65°	19827.7	6076.1	211.5	140.0	71.5	32.8	14.9	8.9	3.0	0.0	0.0
67°	17766.6	4926.4	172.8	104.2	50.6	20.8	8.9	3.0	0.0	0.0	0.0
67.5°	17239.4	4697.1	166.8	98.3	44.7	17.9	6.0	3.0	0.0	0.0	0.0
70°	13528.3	3517.6	119.1	59.6	26.8	11.9	0.0	0.0	0.0	0.0	0.0
72.5°	8408.2	1989.6	86.4	35.7	17.9	6.0	0.0	0.0	0.0	0.0	0.0
75°	3178.0	697.0	59.6	23.8	11.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	988.9	265.1	35.7	17.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	333.6	101.3	23.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	205.5	41.7	14.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	128.1	17.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.8	6.0	3.0	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)