

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: P457461

Luminaire Tested: **GALN-SA8D-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45863 lumens
Efficiency: N/A
Efficacy: 93.0 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

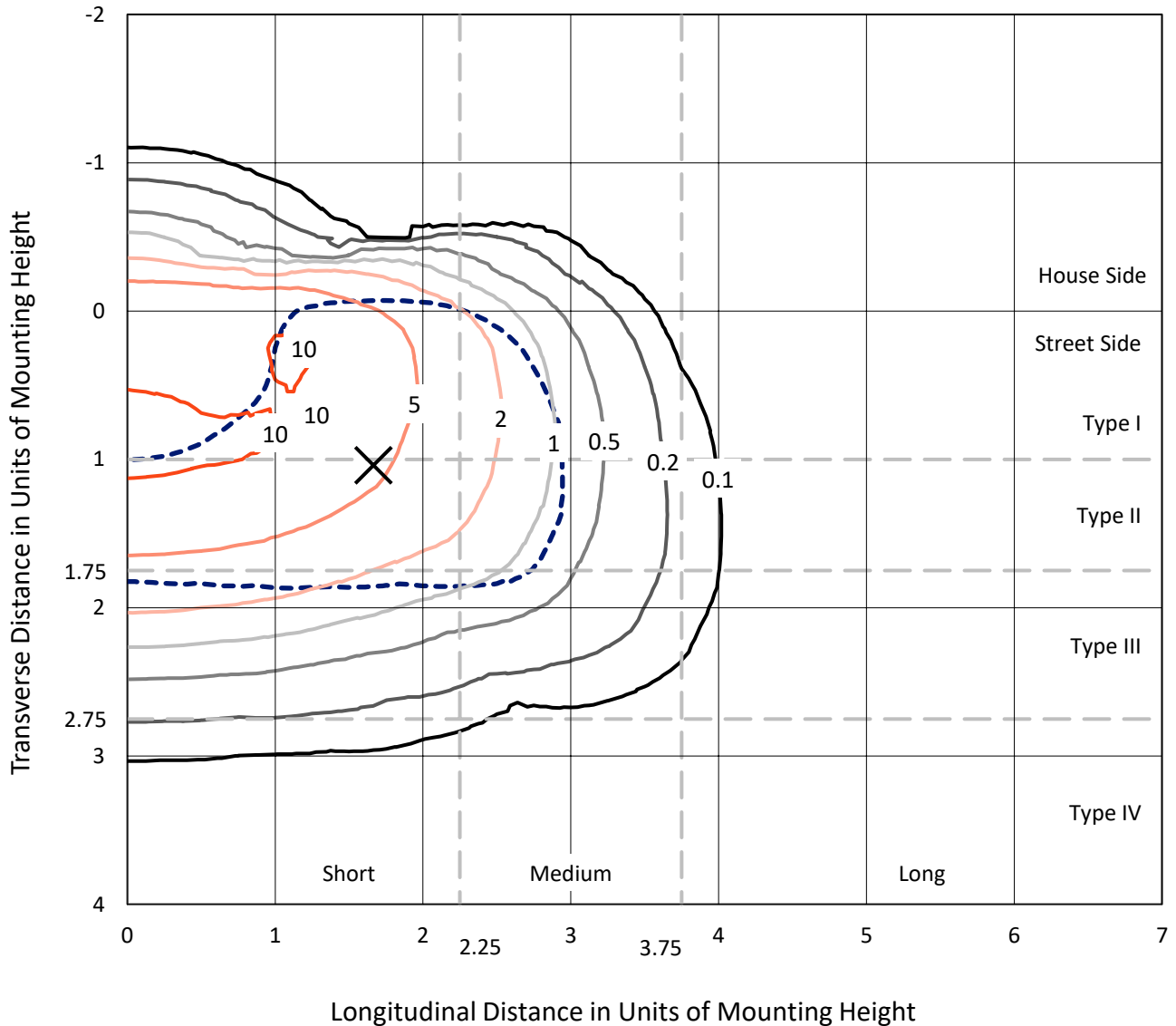
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

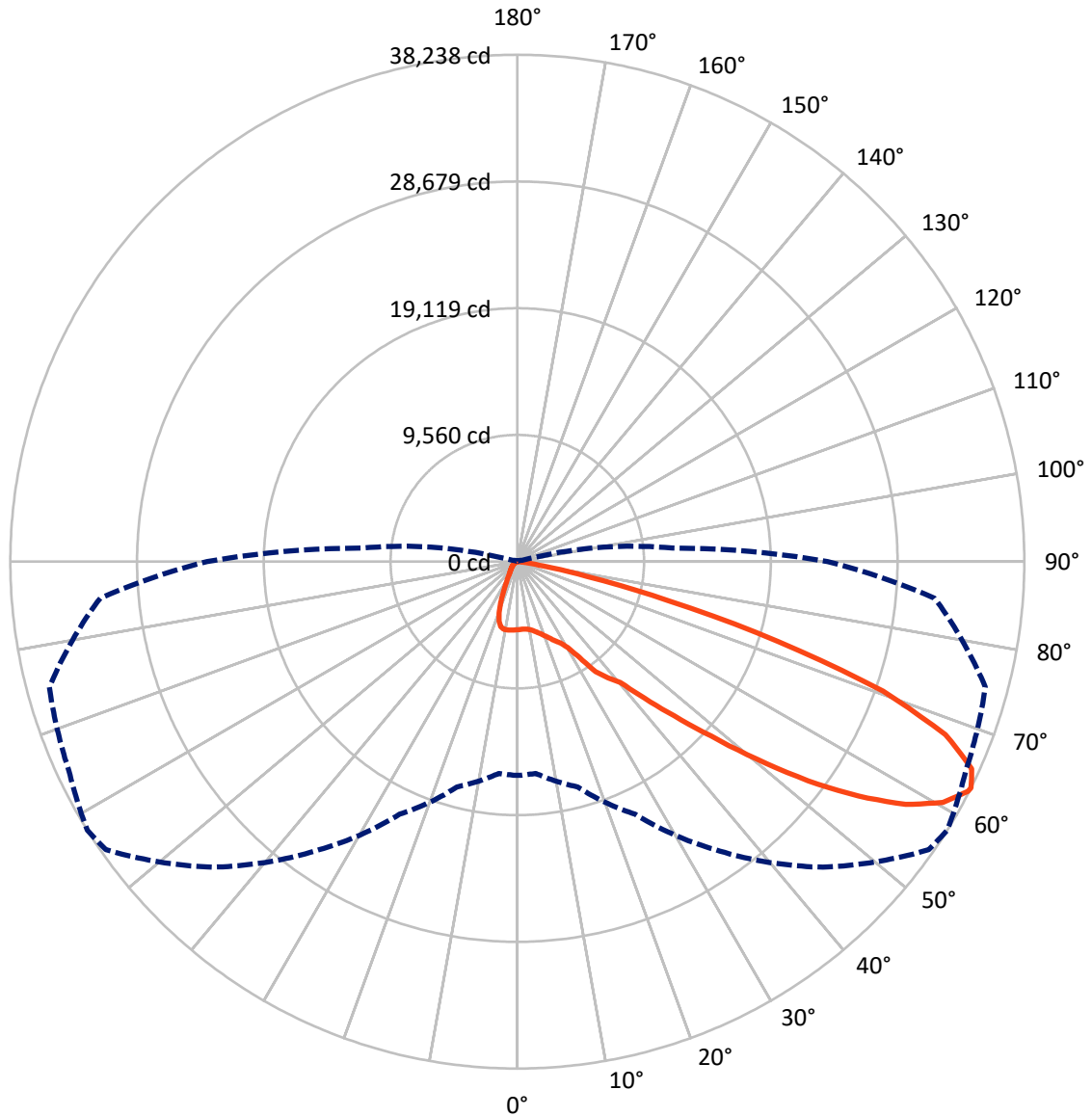
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4748.8	0.0	4748.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	41114.2	0.0	41114.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	45863.0	0.0	45863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.7	1.0
10°-20°	1309.2	2.9
20°-30°	2272.1	5.0
30°-40°	4175.2	9.1
40°-50°	7859.8	17.1
50°-60°	13443.6	29.3
60°-70°	12872.2	28.1
70°-80°	3282.5	7.2
80°-90°	167.8	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°	45863.0	100.0
0°-180°	45863.0	100.0

Coefficient of Utilization



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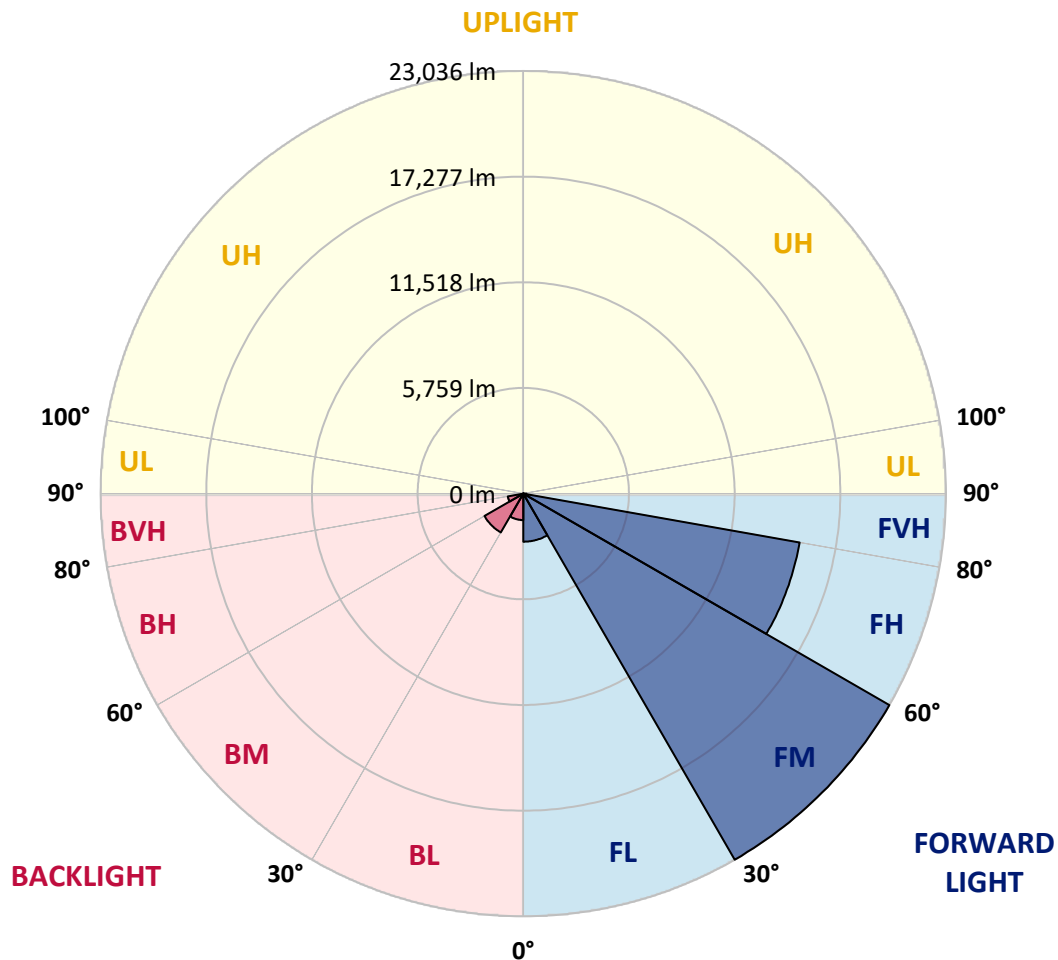
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2621.7	5.7			
FM	(30°-60°)	23036.1	50.2			
FH	(60°-80°)	15295.1	33.3			G5
FVH	(80°-90°)	161.3	0.4			G2/225
BL	(0°-30°)	1440.2	3.1	B3/2500		
BM	(30°-60°)	2442.5	5.3	B2/2500		
BH	(60°-80°)	859.6	1.9	B2/1000		G2/1000
BVH	(80°-90°)	6.5	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°	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5
2.5°	5006.8	5024.0	5041.3	5048.2	5072.4	5096.6	5113.8	5110.4	5138.0	5151.8	5151.8
5°	4806.5	4806.5	4851.4	4892.8	4961.9	5031.0	5096.6	5110.4	5162.2	5210.5	5227.8
7.5°	4637.3	4647.7	4682.2	4758.2	4851.4	4972.3	5103.5	5134.5	5224.3	5331.4	5376.2
10°	4557.9	4564.8	4609.7	4689.1	4806.5	4972.3	5155.3	5214.0	5352.1	5521.3	5583.4
12.5°	4540.6	4551.0	4595.9	4685.7	4820.3	5020.6	5269.2	5331.4	5531.6	5749.2	5842.4
15°	4571.7	4578.6	4623.5	4720.2	4868.7	5106.9	5421.1	5507.5	5745.7	5997.8	6118.6
17.5°	4682.2	4675.3	4706.4	4785.8	4951.5	5214.0	5604.1	5707.7	5987.4	6332.7	6412.1
20°	5151.8	5106.9	5079.3	5010.2	5075.8	5365.9	5825.1	5977.1	6322.4	6674.6	6729.8
22.5°	6163.5	6063.4	5866.6	5597.2	5390.1	5573.1	6091.0	6267.1	6712.5	7057.8	7057.8
25°	7451.5	7323.7	7126.9	6539.9	6032.3	5914.9	6391.4	6612.4	7137.3	7486.0	7372.1
27.5°	9064.0	8963.9	8580.6	7896.9	7120.0	6512.3	6740.2	6943.9	7513.6	7934.9	7696.6
30°	10376.1	10327.8	10013.6	9402.4	8546.1	7658.6	7389.3	7524.0	8014.3	8501.2	8256.0
32.5°	11484.5	11484.5	11163.4	10593.7	9792.6	9005.3	8490.8	8587.5	9057.1	9619.9	9164.1
35°	12703.4	12662.0	12403.0	11860.9	10963.1	10269.1	10058.5	10189.7	10614.4	11032.2	9910.0
37.5°	13984.5	13970.6	13701.3	13176.5	12444.4	11570.8	11077.1	11111.6	11329.1	11584.7	10783.6
40°	15376.0	15396.7	15044.5	14719.9	14029.3	13135.0	12188.9	11971.4	12175.1	12896.8	12396.1
42.5°	17019.6	16971.3	16819.3	16377.4	15821.4	15286.2	14150.2	14070.8	14250.3	15023.8	14481.7
45°	18929.1	18998.1	18735.7	18490.6	18117.6	17672.2	16722.6	16584.5	16781.3	17983.0	17213.0
47.5°	20842.0	20776.4	20945.6	20900.7	21101.0	20769.5	19930.4	19647.3	20120.4	21259.8	20127.3
50°	22299.2	22371.7	22723.9	23238.4	24098.2	24284.6	23480.1	23383.4	23594.0	24326.0	22734.2
52.5°	23245.3	23487.0	24039.5	25361.9	26912.3	28117.4	27506.2	27454.4	27368.1	27564.9	25227.3
55°	23863.4	24108.5	24830.2	26777.6	29446.8	31404.6	31435.7	31214.7	30645.0	30503.4	27558.0
57.5°	23483.5	23531.9	24560.9	27164.4	30852.1	33749.2	34764.3	34543.3	33490.2	32955.0	29616.0
60°	21107.9	21208.0	22641.0	25700.3	30241.0	34515.7	36970.8	36870.6	35717.3	35113.1	31218.1
62.5°	16898.7	17188.8	18663.2	22074.7	27399.2	33224.3	37865.1	38148.2	37250.5	36418.3	31722.3
63°	16125.3	16032.1	17589.3	21018.1	26646.4	32585.5	37878.9	38238.0	37319.5	36542.6	31584.2
65°	11936.9	12216.5	13228.3	16574.2	22174.9	29612.5	37026.0	37661.4	37064.0	35993.6	30054.5
67.5°	6702.2	6688.4	7807.1	10845.7	15521.0	23228.0	33479.8	34823.0	34698.7	32298.9	24913.1
70°	3280.3	3332.1	3791.3	5621.4	9001.8	16025.2	27820.4	29270.7	29315.6	25368.8	17226.8
72.5°	1484.8	1508.9	1837.0	2738.2	4627.0	8532.2	19170.8	20555.4	20299.9	16166.7	9512.9
75°	783.8	835.6	1011.7	1377.7	2230.6	3518.6	10427.9	11767.7	11232.5	7385.9	3501.3
77.5°	580.1	597.4	687.1	877.0	1194.7	1370.8	4499.2	5352.1	5013.7	2672.6	1160.2
80°	424.7	438.5	511.0	621.5	752.7	697.5	1695.4	1944.0	1743.7	908.1	355.7
82.5°	259.0	262.4	372.9	462.7	473.1	390.2	559.4	600.8	628.4	511.0	193.4
85°	93.2	117.4	252.1	334.9	279.7	196.8	234.8	259.0	283.1	324.6	113.9
87.5°	10.4	13.8	120.9	162.3	79.4	72.5	86.3	96.7	103.6	120.9	55.2
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°	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5	5134.5
2.5°	5165.6	5179.4	5169.1	5151.8	5148.4	5138.0	5117.3	5117.3	5117.3	5124.2	5117.3
5°	5241.6	5251.9	5227.8	5193.2	5155.3	5106.9	5055.1	5024.0	5020.6	5013.7	4996.4
7.5°	5386.6	5400.4	5345.2	5262.3	5158.7	5041.3	4930.8	4827.2	4778.9	4740.9	4740.9
10°	5597.2	5611.0	5500.6	5352.1	5144.9	4906.6	4644.2	4406.0	4219.5	4133.2	4112.5
12.5°	5849.3	5856.2	5673.2	5414.2	5072.4	4613.1	4053.8	3532.4	3169.8	3004.1	2986.8
15°	6125.5	6077.2	5835.5	5438.4	4865.2	4008.9	3042.1	2403.3	2026.9	1916.4	1957.8
17.5°	6405.2	6315.4	5959.8	5400.4	4399.1	3042.1	2044.1	1640.2	1522.8	1491.7	1491.7
20°	6667.7	6543.3	6049.6	5234.7	3591.1	2095.9	1515.8	1419.2	1398.4	1377.7	1381.2
22.5°	6930.1	6740.2	6129.0	4865.2	2676.0	1498.6	1357.0	1325.9	1298.3	1270.7	1267.2
25°	7185.6	6923.2	6160.1	4181.5	1823.2	1288.0	1239.6	1198.2	1142.9	1111.9	1104.9
27.5°	7451.5	7144.2	6139.3	3318.3	1329.4	1153.3	1104.9	1046.2	980.6	925.4	925.4
30°	7962.5	7565.4	6066.8	2386.0	1118.8	1015.2	953.0	859.8	787.3	732.0	728.6
32.5°	8660.0	8114.4	5818.2	1678.1	994.5	894.3	801.1	697.5	621.5	580.1	580.1
35°	9281.5	8666.9	5352.1	1236.2	894.3	776.9	663.0	562.8	504.1	476.5	466.1
37.5°	10227.6	9474.9	4709.8	1004.8	797.6	673.3	555.9	462.7	414.4	393.6	393.6
40°	11646.8	10462.4	3922.6	880.5	704.4	573.2	462.7	390.2	352.2	328.0	328.0
42.5°	13407.8	11671.0	3124.9	790.7	618.1	493.8	386.7	331.5	297.0	279.7	276.2
45°	15624.6	12945.1	2406.7	707.9	549.0	421.3	328.0	279.7	245.2	234.8	238.3
47.5°	17938.1	14067.3	1864.6	635.3	476.5	355.7	279.7	241.7	217.5	203.7	203.7
50°	19913.2	14840.8	1415.7	552.5	421.3	300.4	245.2	217.5	196.8	189.9	186.5
52.5°	21563.7	15065.2	1084.2	480.0	369.5	259.0	217.5	196.8	179.6	169.2	169.2
55°	22969.0	14868.4	849.4	404.0	310.8	224.4	193.4	176.1	155.4	145.0	141.6
57.5°	23790.8	14236.5	649.2	334.9	252.1	186.5	169.2	148.5	124.3	107.0	107.0
60°	24205.2	13318.0	497.2	276.2	193.4	148.5	138.1	110.5	86.3	72.5	69.1
62.5°	23708.0	12099.1	376.4	217.5	145.0	110.5	93.2	79.4	55.2	41.4	41.4
63°	23400.7	11746.9	362.6	207.2	134.7	103.6	86.3	72.5	48.3	38.0	34.5
65°	21332.3	10210.4	297.0	165.7	107.0	72.5	58.7	51.8	34.5	17.3	13.8
67.5°	16940.2	7810.6	234.8	124.3	76.0	51.8	34.5	31.1	10.4	0.0	0.0
70°	11453.4	5044.8	183.0	89.8	51.8	31.1	17.3	13.8	3.5	0.0	0.0
72.5°	5973.6	2586.3	141.6	65.6	31.1	20.7	10.4	3.5	0.0	0.0	0.0
75°	2113.2	880.5	103.6	41.4	20.7	10.4	3.5	0.0	0.0	0.0	0.0
77.5°	638.8	328.0	65.6	31.1	13.8	6.9	0.0	0.0	0.0	0.0	0.0
80°	224.4	120.9	38.0	20.7	10.4	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	110.5	58.7	24.2	17.3	10.4	3.5	0.0	0.0	0.0	0.0	0.0
85°	62.2	38.0	20.7	17.3	10.4	6.9	0.0	0.0	0.0	0.0	0.0
87.5°	44.9	27.6	20.7	17.3	13.8	6.9	3.5	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)