

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: P455594

Luminaire Tested: **GALN-SA6D-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37734 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 368
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

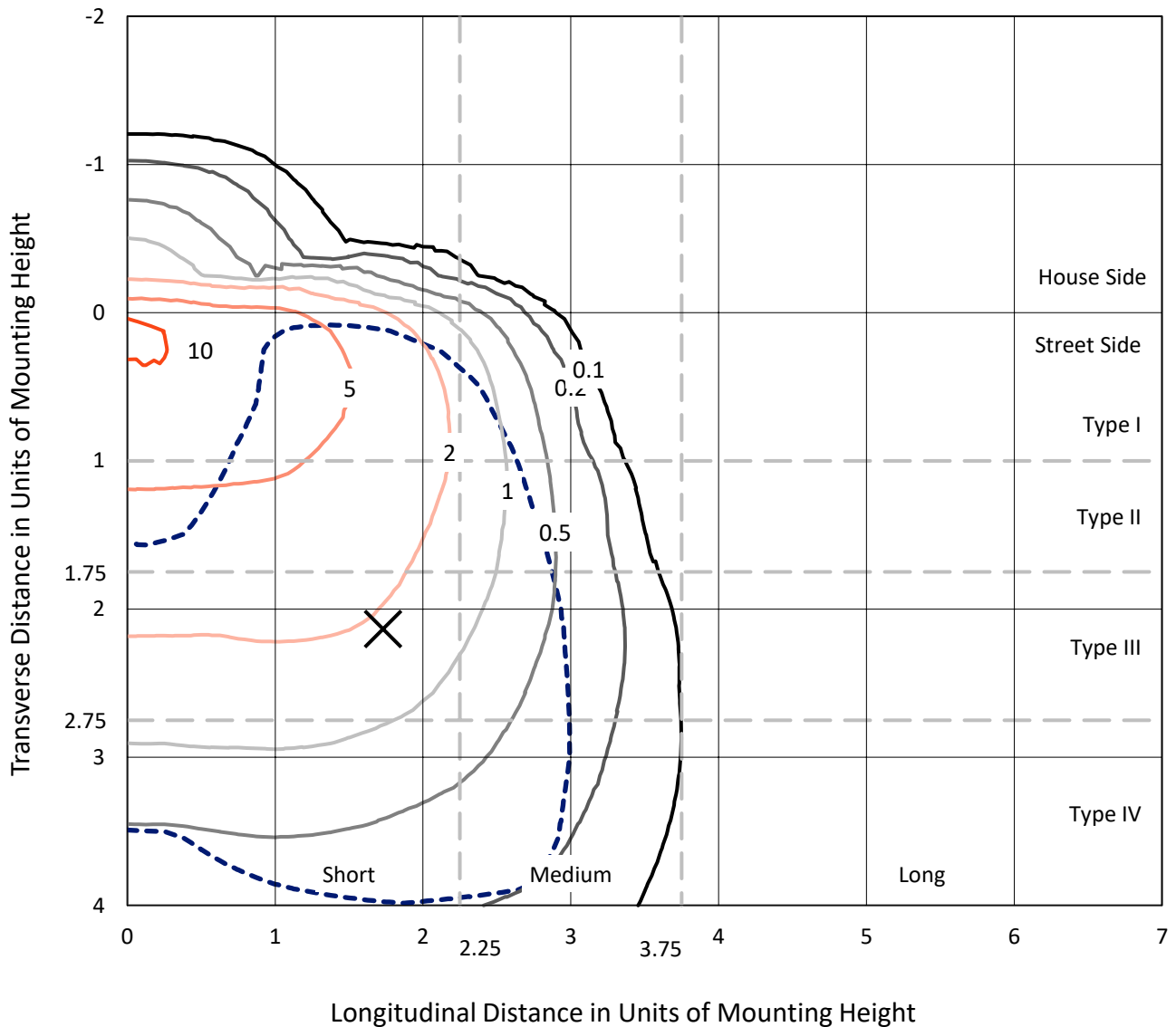




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Iso-Footcandle Lines of Horizontal Illumination

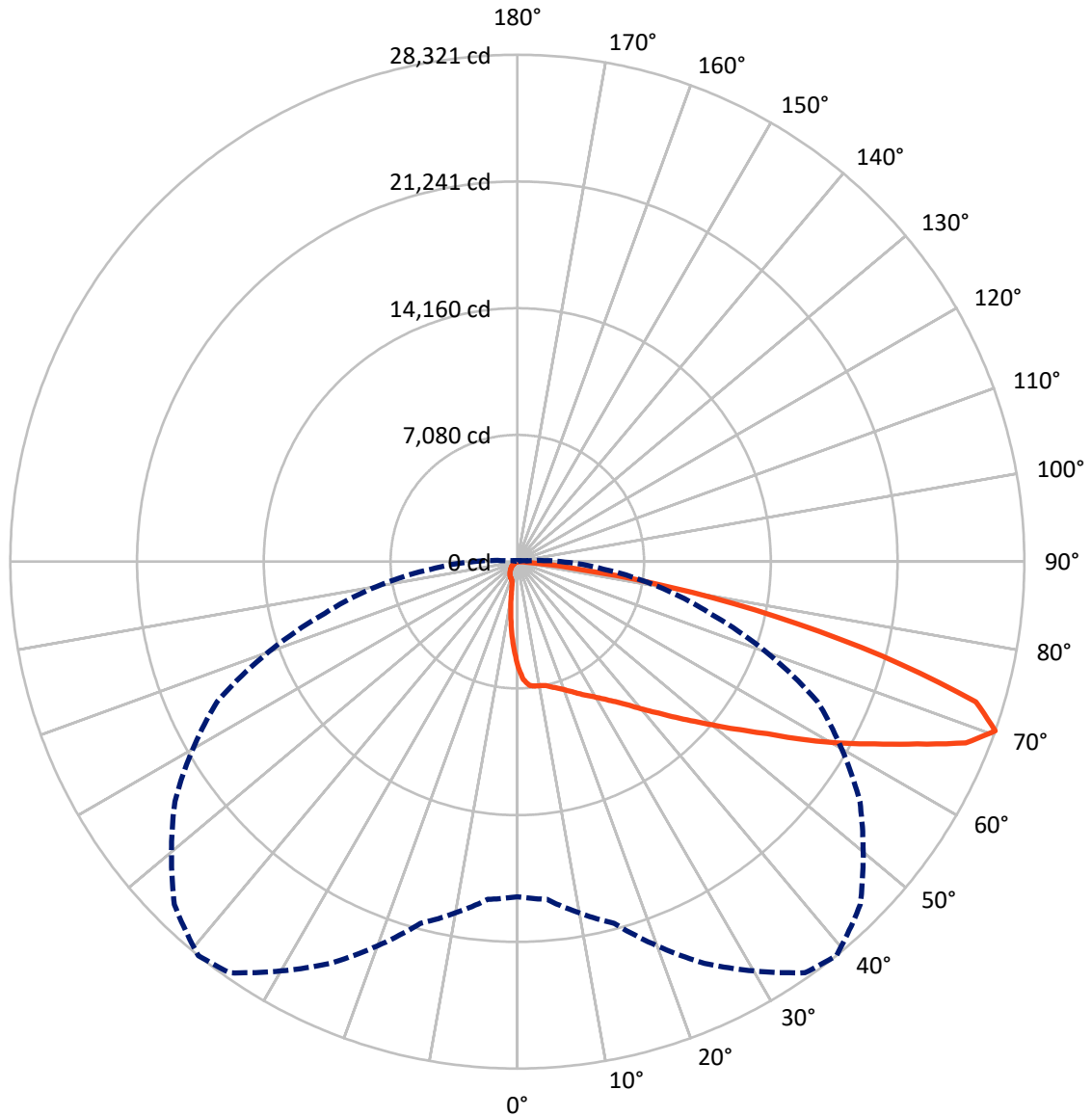
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2460.4	0.0	2460.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	35273.6	0.0	35273.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	37734.0	0.0	37734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.2	1.3
10°-20°	1305.0	3.5
20°-30°	2186.3	5.8
30°-40°	3390.7	9.0
40°-50°	5373.2	14.2
50°-60°	7876.4	20.9
60°-70°	10095.6	26.8
70°-80°	6343.7	16.8
80°-90°	660.9	1.8
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°	37734.0	100.0
0°-180°	37734.0	100.0

Coefficient of Utilization



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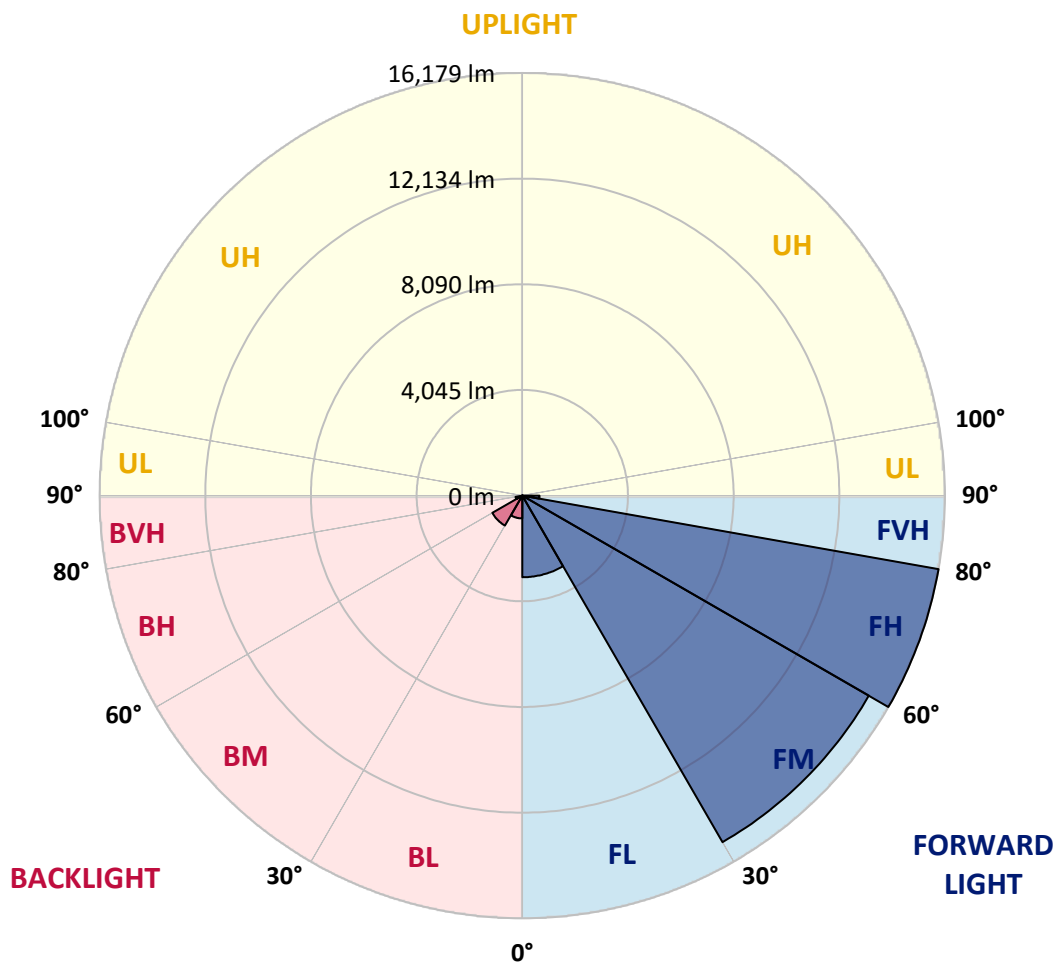
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3122.3	8.3			
FM	(30°-60°)	15316.1	40.6			
FH	(60°-80°)	16179.1	42.9			G5
FVH	(80°-90°)	656.0	1.7			G4/750
BL	(0°-30°)	871.2	2.3	B2/1000		
BM	(30°-60°)	1324.1	3.5	B2/2500		
BH	(60°-80°)	260.2	0.7	B1/500		G1/500
BVH	(80°-90°)	4.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8
2.5°	6803.2	6780.3	6749.9	6714.4	6613.0	6595.2	6534.4	6405.1	6250.4	6123.6	5948.7
5°	7125.2	7137.9	7115.1	7051.7	6978.1	6935.0	6859.0	6658.6	6458.3	6202.2	5915.7
7.5°	7198.7	7224.1	7196.2	7135.3	7064.3	7018.7	6957.8	6785.4	6552.1	6260.5	5867.5
10°	7191.1	7221.6	7203.8	7148.0	7089.7	7046.6	6980.7	6843.7	6656.1	6349.3	5882.7
12.5°	7178.4	7219.0	7216.5	7188.6	7140.4	7107.4	7066.9	6945.2	6770.2	6478.6	5966.4
15°	7142.9	7193.7	7239.3	7262.1	7264.7	7264.7	7213.9	7084.6	6917.3	6648.5	6075.4
17.5°	7158.2	7216.5	7330.6	7396.5	7442.2	7437.1	7383.8	7244.4	7059.3	6823.5	6189.5
20°	7252.0	7330.6	7490.3	7622.2	7667.8	7652.6	7581.6	7419.3	7208.9	6973.1	6301.1
22.5°	7482.7	7553.7	7754.0	7908.7	7941.7	7901.1	7799.7	7579.1	7388.9	7135.3	6435.5
25°	7827.6	7911.3	8096.4	8213.0	8213.0	8190.2	8048.2	7789.5	7591.8	7361.0	6610.5
27.5°	8246.0	8317.0	8499.5	8603.5	8542.6	8476.7	8334.7	8022.8	7832.6	7645.0	6820.9
30°	8669.4	8715.1	8907.8	8953.4	8890.0	8806.3	8654.2	8342.3	8175.0	8030.4	7125.2
32.5°	9070.0	9168.9	9328.7	9318.5	9232.3	9191.8	9052.3	8720.1	8626.3	8611.1	7551.2
35°	9470.7	9546.8	9688.7	9724.2	9648.2	9640.6	9539.1	9293.2	9295.7	9394.6	8215.5
37.5°	9815.5	9884.0	10051.3	10130.0	10145.2	10183.2	10142.6	9980.4	10211.1	10482.4	9095.4
40°	10104.6	10201.0	10413.9	10550.9	10708.1	10847.5	10855.2	10890.7	11354.7	11821.2	10244.1
42.5°	10330.3	10464.7	10774.0	11027.6	11387.6	11565.1	11707.1	11902.4	12683.4	13380.7	11598.1
45°	10624.4	10779.1	11164.5	11562.6	12125.5	12417.1	12614.9	13137.2	14245.3	15196.2	12987.6
47.5°	11111.3	11192.4	11585.4	12166.1	12906.5	13322.3	13707.8	14498.9	15921.4	16773.4	14143.9
50°	11737.6	11790.8	12087.5	12893.8	13852.3	14400.0	15102.4	16033.0	17660.9	18081.8	14798.1
52.5°	12429.8	12447.5	12670.7	13695.1	14912.2	15601.9	16388.0	17536.6	19078.3	19014.9	15231.7
55°	13233.6	13208.2	13398.4	14564.8	16167.4	16955.9	17871.3	19075.8	20308.1	19676.7	15480.2
57.5°	14154.0	14085.6	14270.7	15718.5	17775.0	18718.2	19648.8	20404.4	21261.5	20232.0	15599.4
60°	15117.6	14980.7	15201.3	17014.3	19669.1	20564.2	21337.6	21540.4	22265.6	20673.2	15394.0
62.5°	15885.9	15888.4	16299.2	18393.7	21616.5	22400.0	22810.8	22993.3	23130.3	20576.9	14313.8
65°	17085.3	17125.8	17782.6	20308.1	23870.7	24550.2	24831.7	24238.4	23168.3	19380.0	12691.0
67.5°	18322.7	18452.0	19653.9	22945.2	26474.8	27022.5	26659.9	24479.2	22133.8	16649.1	9622.8
70°	18725.8	18938.8	20919.2	24760.7	28036.8	28320.8	27093.5	23355.9	18502.7	11131.5	4843.1
72.5°	17158.8	17503.6	20191.4	24098.9	27040.3	26794.3	24240.9	19588.0	11762.9	4226.9	1478.3
75°	12100.2	12252.3	16781.0	19991.1	21748.3	21051.0	18439.3	12627.6	4838.0	1186.7	507.1
77.5°	6247.9	6174.3	9980.4	13264.0	15510.6	14788.0	12074.8	6536.9	1833.3	494.5	314.4
80°	3230.4	3283.7	4318.2	6950.2	9468.1	8712.5	6438.0	3030.1	976.2	273.9	240.9
82.5°	1810.5	1698.9	2482.4	3035.2	4427.3	3471.3	2469.7	2145.2	426.0	164.8	228.2
85°	329.6	344.8	1361.6	1640.6	1536.6	976.2	796.2	1432.6	124.2	91.3	159.7
87.5°	5.1	5.1	263.7	471.6	299.2	136.9	251.0	205.4	25.4	35.5	27.9
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°	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8	5887.8
2.5°	5859.9	5763.6	5583.5	5406.0	5180.3	4995.2	4871.0	4741.7	4609.8	4620.0	4650.4
5°	5758.5	5591.1	5236.1	4860.9	4500.8	4176.2	3856.7	3570.2	3453.6	3347.1	3352.1
7.5°	5657.1	5421.2	4901.4	4313.2	3768.0	3215.2	2814.6	2484.9	2310.0	2178.1	2140.1
10°	5611.4	5299.5	4594.6	3785.7	3012.4	2408.9	1894.1	1625.4	1417.4	1351.5	1369.3
12.5°	5631.7	5238.7	4318.2	3309.0	2388.6	1678.6	1318.5	1181.6	1136.0	1128.4	1123.3
15°	5669.7	5195.6	4046.9	2781.6	1754.7	1247.5	1108.1	1082.7	1077.7	1072.6	1075.1
17.5°	5720.4	5157.5	3757.8	2287.2	1346.4	1090.3	1049.8	1037.1	1034.5	1034.5	1034.5
20°	5771.2	5114.4	3435.8	1846.0	1123.3	1029.5	1004.1	996.5	994.0	994.0	991.4
22.5°	5829.5	5076.4	3108.7	1450.4	1034.5	986.4	963.6	958.5	955.9	953.4	953.4
25°	5913.2	5028.2	2761.3	1186.7	978.8	945.8	923.0	917.9	915.4	905.2	907.8
27.5°	6024.7	4992.7	2403.8	1024.4	928.1	895.1	879.9	872.3	867.2	859.6	862.1
30°	6176.9	4962.3	2023.5	935.7	869.7	841.8	826.6	821.6	816.5	808.9	808.9
32.5°	6440.6	4975.0	1622.8	864.7	816.5	783.5	768.3	763.2	758.2	750.6	750.6
35°	6836.1	5048.5	1298.3	803.8	753.1	720.1	704.9	704.9	697.3	687.2	684.6
37.5°	7482.7	5236.1	1042.2	745.5	692.2	661.8	644.1	639.0	631.4	616.2	613.6
40°	8246.0	5527.7	877.3	687.2	636.5	606.0	590.8	575.6	555.3	540.1	537.6
42.5°	9204.4	5826.9	760.7	628.8	583.2	555.3	537.6	512.2	481.8	461.5	459.0
45°	10203.5	6100.8	682.1	575.6	532.5	509.7	489.4	448.8	410.8	385.4	382.9
47.5°	10949.0	6151.5	618.7	524.9	489.4	466.6	438.7	388.0	337.2	314.4	306.8
50°	11301.4	5905.5	552.8	474.2	446.3	420.9	385.4	327.1	271.3	243.4	238.4
52.5°	11425.7	5479.6	499.5	428.5	403.2	372.7	329.6	263.7	213.0	185.1	182.6
55°	11375.0	4942.0	451.3	385.4	352.5	317.0	273.9	210.5	157.2	134.4	129.3
57.5°	11108.7	4257.4	403.2	342.3	301.7	266.2	218.1	157.2	106.5	86.2	83.7
60°	10391.1	3324.2	355.0	294.1	256.1	218.1	172.4	111.6	65.9	48.2	48.2
62.5°	9179.1	2467.2	309.4	246.0	215.5	175.0	121.7	71.0	35.5	25.4	22.8
65°	7670.4	1820.6	258.6	207.9	180.0	136.9	86.2	43.1	17.7	7.6	5.1
67.5°	5352.8	1123.3	215.5	169.9	147.1	98.9	53.2	17.7	7.6	0.0	0.0
70°	2431.7	535.0	164.8	129.3	111.6	71.0	27.9	10.1	5.1	0.0	0.0
72.5°	755.6	281.5	116.6	93.8	76.1	45.6	15.2	7.6	5.1	0.0	0.0
75°	349.9	180.0	73.5	50.7	43.1	22.8	10.1	5.1	2.5	0.0	0.0
77.5°	261.2	139.5	43.1	27.9	22.8	15.2	7.6	5.1	2.5	0.0	0.0
80°	228.2	71.0	25.4	17.7	12.7	10.1	5.1	2.5	0.0	0.0	0.0
82.5°	205.4	35.5	15.2	10.1	7.6	5.1	2.5	2.5	0.0	0.0	0.0
85°	111.6	20.3	10.1	7.6	5.1	2.5	2.5	0.0	0.0	0.0	0.0
87.5°	20.3	10.1	7.6	5.1	5.1	2.5	2.5	2.5	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)