

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: P457617

Luminaire Tested: **GALN-SA9A-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28407 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

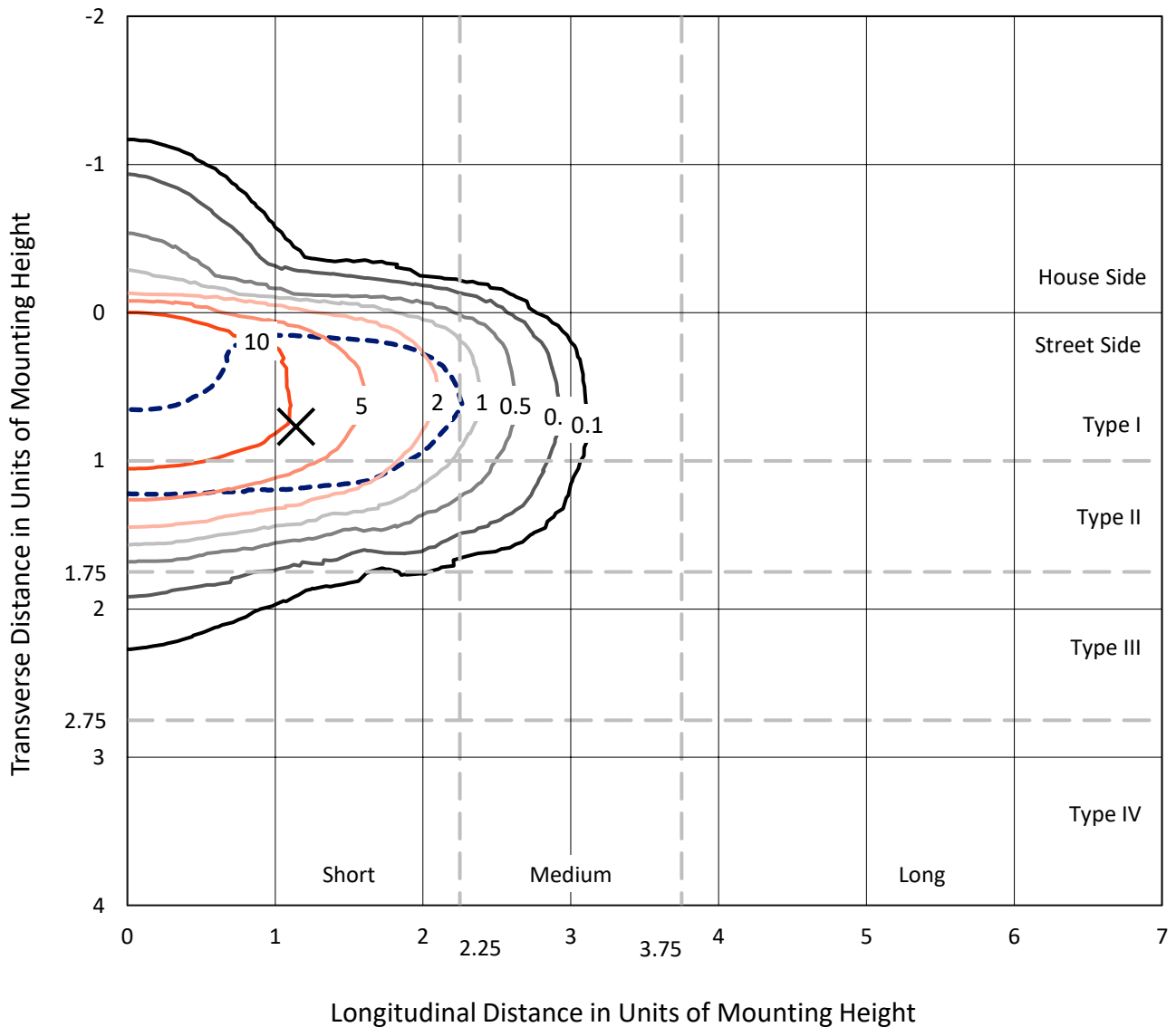
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

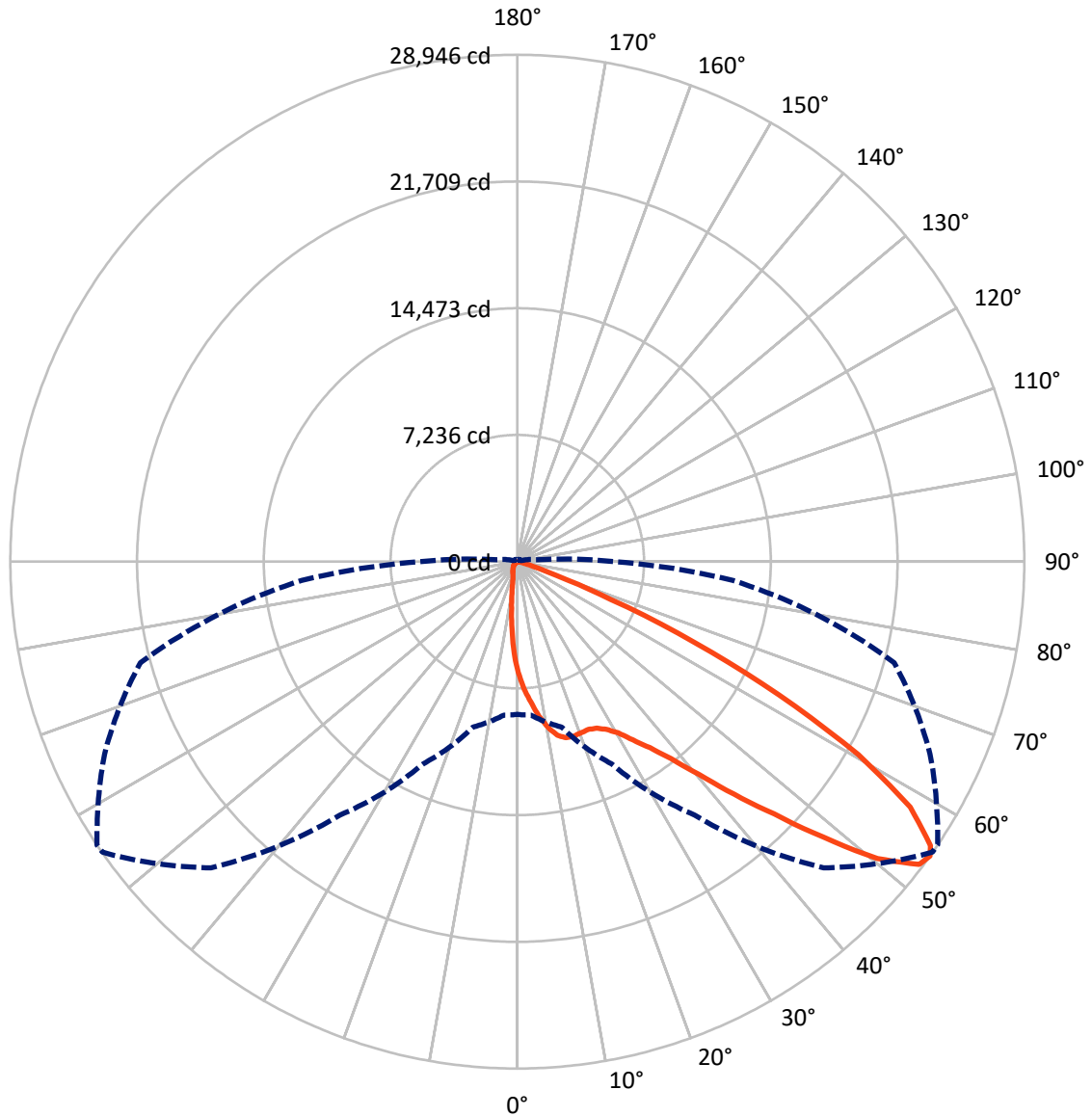
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1343.3	0.0	1343.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	27063.7	0.0	27063.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	28407.0	0.0	28407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.7	2.0
10°-20°	1507.7	5.3
20°-30°	2611.1	9.2
30°-40°	4507.2	15.9
40°-50°	7671.4	27.0
50°-60°	7591.8	26.7
60°-70°	3465.0	12.2
70°-80°	445.0	1.6
80°-90°	50.1	0.2
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°	28407.0	100.0
0°-180°	28407.0	100.0

Coefficient of Utilization



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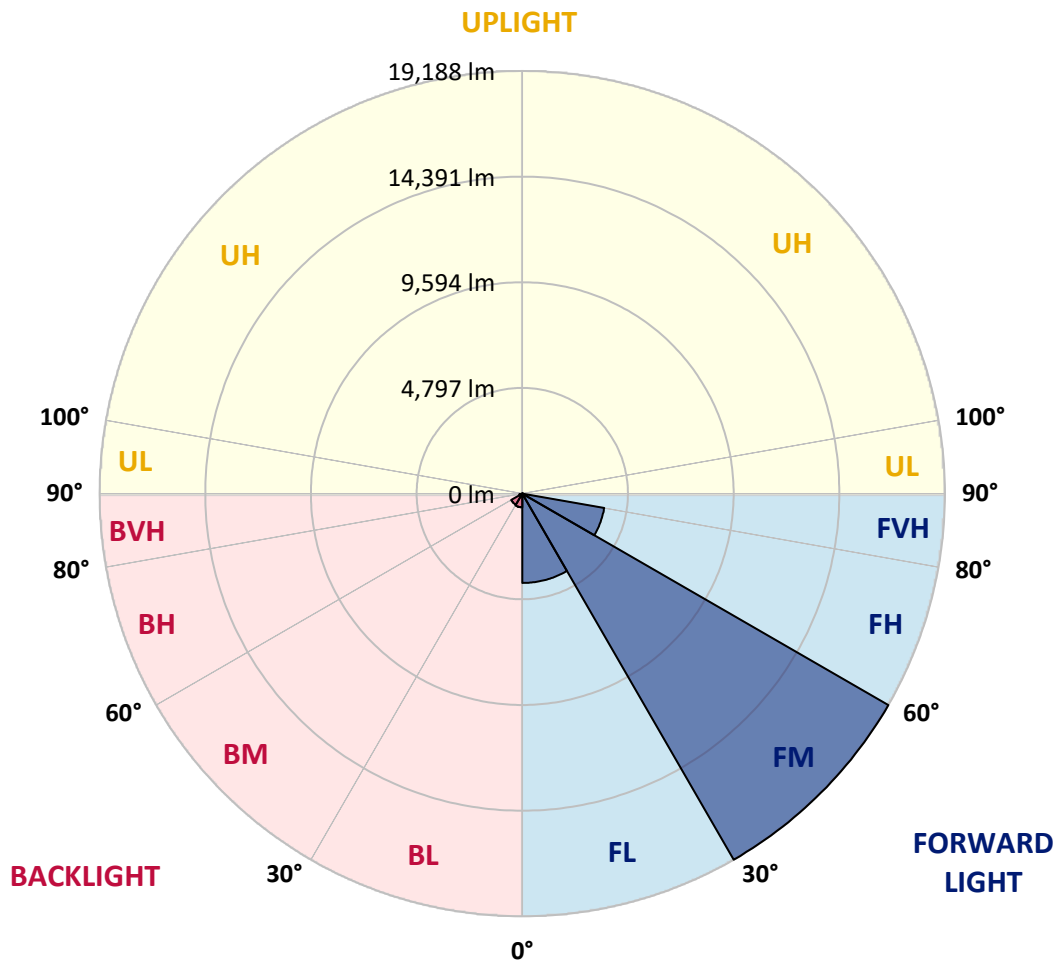
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4055.2	14.3			
FM	(30°-60°)	19188.2	67.5			
FH	(60°-80°)	3775.5	13.3			G2/5000
FVH	(80°-90°)	44.8	0.2			G1/100
BL	(0°-30°)	621.2	2.2	B2/1000		
BM	(30°-60°)	582.2	2.0	B1/1000		
BH	(60°-80°)	134.5	0.5	B1/500		G1/500
BVH	(80°-90°)	5.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2
2.5°	8020.8	7965.2	7888.5	7829.1	7689.2	7488.0	7275.2	7275.2	7070.2	6784.6	6493.3
5°	9251.2	9214.8	9140.1	8986.7	8829.6	8547.8	8120.4	8045.7	7679.6	7162.2	6617.9
7.5°	9751.4	9768.7	9772.5	9732.3	9657.5	9379.6	8956.1	8904.3	8319.8	7626.0	6780.8
10°	9272.3	9356.6	9439.0	9605.8	9841.5	9908.6	9669.0	9615.4	9040.4	8095.5	6957.1
12.5°	8559.3	8605.3	8651.3	8913.9	9387.3	9929.7	10180.7	10178.8	9692.0	8563.2	7181.3
15°	8227.8	8268.0	8271.9	8388.8	8798.9	9588.5	10399.2	10428.0	10328.3	9140.1	7422.8
17.5°	8296.8	8329.4	8302.5	8331.3	8545.9	9212.9	10374.3	10470.1	10843.9	9693.9	7641.3
20°	8747.2	8810.4	8706.9	8626.4	8691.6	9113.2	10290.0	10424.1	11208.0	10234.4	7840.6
22.5°	9555.9	9590.4	9460.1	9239.7	9124.7	9322.1	10267.0	10399.2	11518.5	10677.1	7955.6
25°	10454.8	10443.3	10299.6	10052.3	9810.9	9743.8	10418.4	10537.2	11775.3	11075.8	7990.1
27.5°	11353.7	11388.2	11146.7	10840.0	10550.6	10376.2	10757.6	10845.8	12064.7	11530.0	8032.3
30°	12398.2	12342.6	12105.0	11754.2	11422.7	11179.3	11303.8	11328.8	12463.4	12131.8	8143.4
32.5°	13757.0	13603.7	13337.3	12724.0	12486.4	12074.3	12105.0	12135.6	12948.3	12727.8	8277.6
35°	15600.8	15593.1	15071.8	14245.8	13667.0	13155.2	13021.1	13046.0	13682.3	13613.3	8574.7
37.5°	17820.1	17850.8	17256.7	16424.9	15359.3	14546.7	14270.7	14274.5	14797.7	14836.1	9027.0
40°	19627.4	19707.9	19353.4	18791.8	17739.6	16469.0	16005.2	15963.0	16365.5	16317.6	9672.9
42.5°	20405.6	20480.3	20612.6	20808.0	20229.2	19180.9	18086.5	18144.0	18266.7	17931.3	10397.3
45°	20024.2	20143.0	20662.4	21869.8	22414.1	22061.5	20756.3	20555.1	20035.7	19684.9	11125.6
47.5°	18435.4	18724.8	19593.0	21603.4	23508.5	24700.6	23769.1	23502.7	21806.6	20965.2	11589.4
50°	15823.1	15840.3	17049.7	19619.8	22941.2	26366.1	26845.2	26645.9	23456.7	21683.9	11823.2
52.5°	11470.6	11848.1	12955.9	15932.3	20484.2	26113.1	28805.8	28723.4	25158.6	22051.9	12160.5
54°	8720.3	8793.2	9778.3	12731.7	17661.1	24723.6	28926.6	28945.7	26003.8	22274.2	12359.9
55°	7148.8	6974.3	8009.3	10845.8	15734.9	23495.1	28531.8	28623.8	26383.3	22389.2	12507.4
57.5°	3388.5	3390.4	4181.9	5720.9	9854.9	18243.7	26118.8	26444.6	26425.5	22586.6	12961.7
60°	1715.3	1726.8	1901.2	2641.0	4868.1	12128.0	21595.8	22372.0	24392.0	22615.4	13111.2
62.5°	1199.8	1186.3	1157.6	1270.7	2048.8	6163.6	16078.0	16752.6	20723.7	21521.0	12635.9
65°	1027.3	998.5	918.0	900.8	1034.9	2455.1	10014.0	11114.1	15823.1	18634.7	11282.8
67.5°	877.8	866.3	793.5	749.4	732.1	1069.4	5167.0	5745.8	10815.1	13394.8	8545.9
70°	745.5	739.8	695.7	640.1	592.2	640.1	1916.6	2374.6	6027.6	7212.0	4032.4
72.5°	605.6	611.4	619.0	548.1	498.3	454.2	818.4	952.5	2522.2	2577.8	1410.6
75°	530.9	525.1	525.1	477.2	415.9	337.3	450.4	484.9	772.4	716.8	327.7
77.5°	373.7	360.3	421.6	392.9	346.9	239.6	256.8	272.2	320.1	274.1	153.3
80°	258.7	258.7	270.2	352.6	312.4	174.4	157.2	168.7	189.7	162.9	88.2
82.5°	145.7	149.5	176.3	187.8	182.1	116.9	103.5	105.4	126.5	111.2	55.6
85°	17.2	28.7	101.6	99.7	74.7	51.7	57.5	59.4	78.6	69.0	32.6
87.5°	1.9	3.8	21.1	26.8	19.2	21.1	21.1	21.1	26.8	30.7	23.0
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°	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2	6311.2
2.5°	6336.1	6190.5	5843.6	5441.1	5184.3	4766.5	4413.8	4158.9	4095.7	3973.0	4009.4
5°	6328.5	6025.7	5318.4	4571.0	3773.7	3179.6	2736.8	2388.0	2234.7	2133.1	2062.2
7.5°	6332.3	5858.9	4724.3	3534.1	2581.6	1999.0	1588.8	1376.1	1234.3	1174.8	1182.5
10°	6343.8	5671.1	4034.4	2618.0	1742.1	1291.8	1040.7	939.1	891.2	883.5	881.6
12.5°	6370.6	5466.0	3375.1	1943.4	1218.9	939.1	843.3	808.8	793.5	793.5	787.7
15°	6399.4	5239.9	2826.9	1445.1	939.1	806.9	762.8	745.5	736.0	736.0	734.0
17.5°	6399.4	4979.2	2315.2	1121.2	808.8	741.7	707.2	684.2	676.5	676.5	674.6
20°	6359.1	4676.4	1861.0	902.7	734.0	680.4	645.9	621.0	611.4	607.5	605.6
22.5°	6219.2	4272.0	1481.5	776.2	672.7	626.7	582.6	553.9	546.2	542.4	544.3
25°	5970.1	3815.9	1172.9	682.3	617.1	561.6	523.2	502.1	494.5	494.5	496.4
27.5°	5713.3	3338.6	929.5	611.4	550.1	500.2	469.6	456.1	454.2	460.0	461.9
30°	5475.6	2859.5	753.2	553.9	490.6	448.5	427.4	423.6	423.6	425.5	427.4
32.5°	5211.1	2439.8	630.5	504.1	442.7	406.3	394.8	394.8	398.6	398.6	402.5
35°	5044.4	2079.5	553.9	456.1	406.3	375.6	368.0	369.9	375.6	383.3	387.1
37.5°	4954.3	1792.0	504.1	417.8	371.8	350.7	343.1	346.9	360.3	373.7	375.6
40°	4962.0	1575.4	463.8	385.2	345.0	322.0	316.2	327.7	341.1	354.6	356.5
42.5°	5046.3	1414.4	425.5	346.9	322.0	289.4	287.5	299.0	304.7	318.1	320.1
45°	5146.0	1297.5	385.2	306.6	279.8	251.1	253.0	262.6	270.2	291.3	295.1
47.5°	5176.6	1217.0	339.2	260.7	230.0	220.4	222.3	228.1	243.4	262.6	264.5
50°	5211.1	1167.2	295.1	220.4	195.5	193.6	195.5	199.3	208.9	216.6	214.7
52.5°	5358.7	1165.3	258.7	191.7	166.7	170.6	172.5	170.6	162.9	151.4	147.6
54°	5496.7	1171.0	241.5	178.2	153.3	159.1	157.2	147.6	128.4	116.9	111.2
55°	5607.8	1176.8	231.9	168.7	145.7	147.6	149.5	130.3	105.4	93.9	90.1
57.5°	5826.3	1163.3	208.9	147.6	128.4	120.7	118.8	86.2	57.5	49.8	46.0
60°	5717.1	1050.3	189.7	126.5	109.2	97.7	80.5	47.9	28.7	21.1	21.1
62.5°	5287.8	891.2	168.7	103.5	90.1	74.7	42.2	26.8	13.4	7.7	5.7
65°	4730.1	749.4	151.4	82.4	70.9	47.9	23.0	17.2	5.7	0.0	0.0
67.5°	3516.9	555.8	128.4	65.2	53.7	30.7	15.3	9.6	1.9	0.0	0.0
70°	1629.1	339.2	109.2	49.8	38.3	23.0	11.5	5.7	0.0	0.0	0.0
72.5°	467.6	212.7	90.1	36.4	26.8	19.2	9.6	3.8	1.9	0.0	0.0
75°	162.9	170.6	67.1	26.8	21.1	13.4	7.7	3.8	1.9	0.0	0.0
77.5°	97.7	138.0	42.2	23.0	17.2	11.5	7.7	3.8	1.9	1.9	0.0
80°	55.6	92.0	26.8	19.2	15.3	9.6	5.7	3.8	1.9	1.9	0.0
82.5°	30.7	44.1	21.1	17.2	13.4	9.6	5.7	3.8	1.9	1.9	1.9
85°	24.9	23.0	17.2	15.3	11.5	7.7	5.7	1.9	0.0	0.0	0.0
87.5°	19.2	15.3	15.3	15.3	11.5	7.7	5.7	1.9	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)