

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: P648144

Luminaire Tested: **GALN-SA9A-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648144
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-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 26596.2 lumens
Efficiency: N/A
Efficacy: 97.1 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

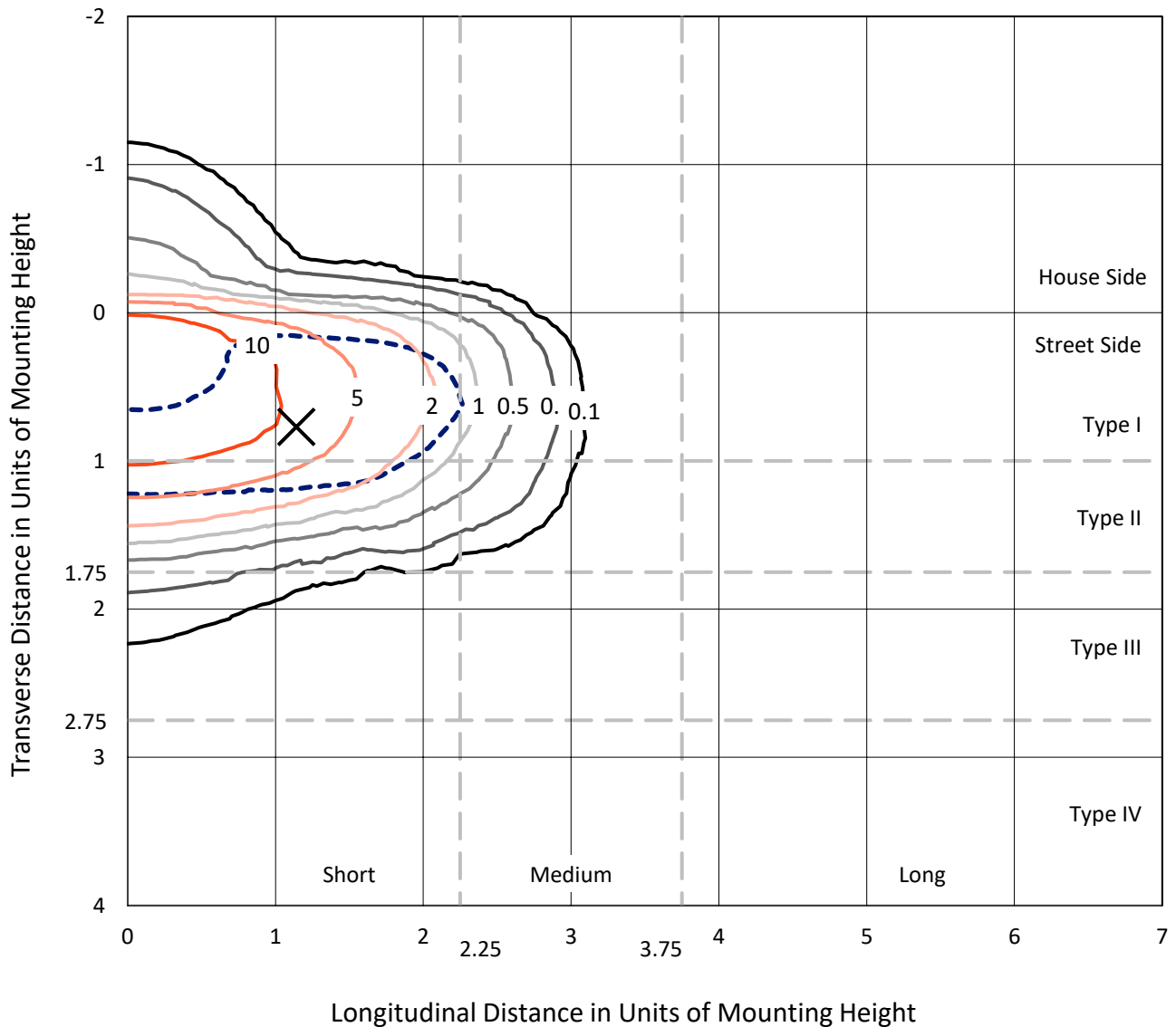
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

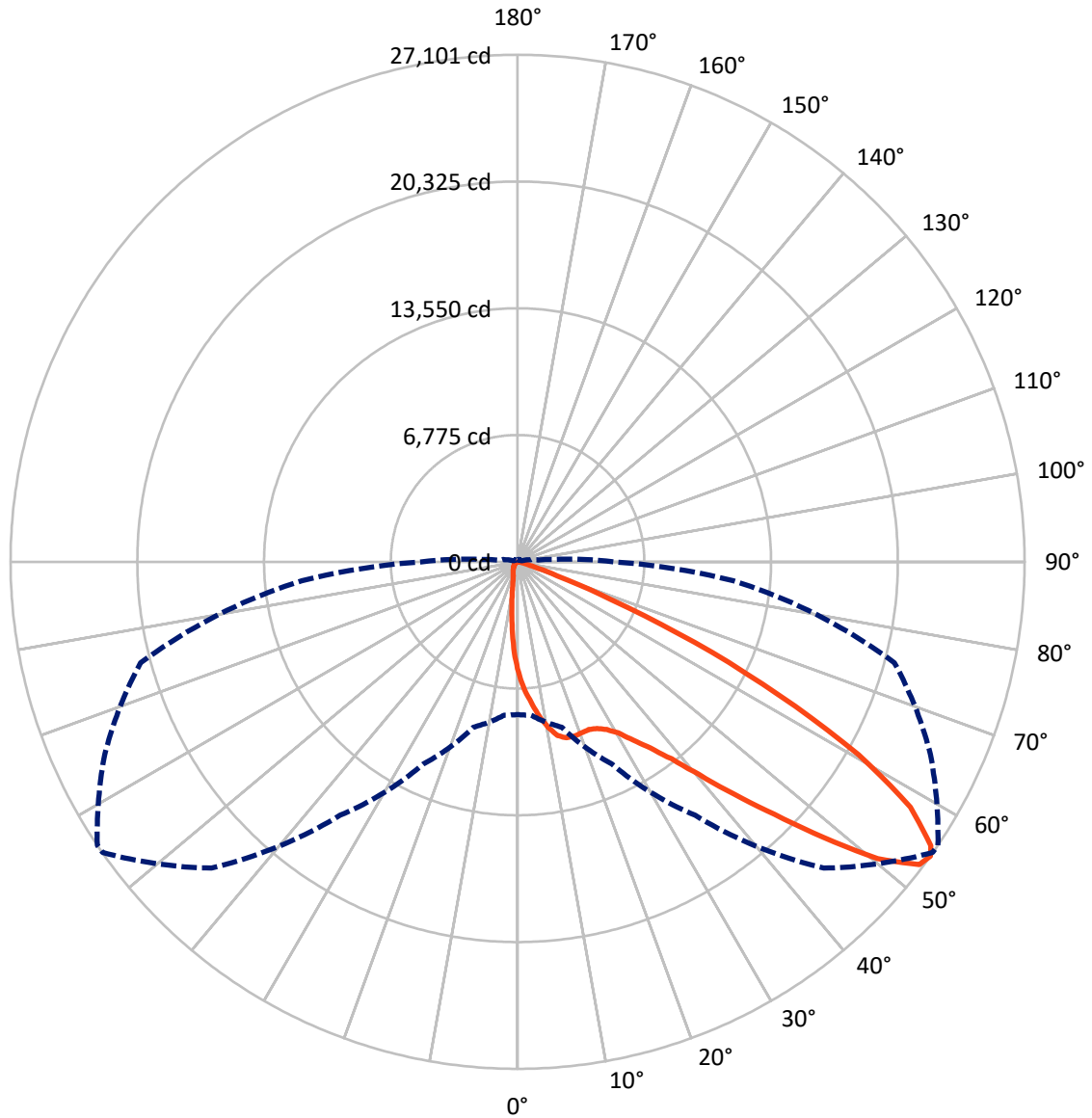
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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	1257.7	0.0	1257.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	25338.5	0.0	25338.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	26596.2	0.0	26596.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.1	2.0
10°-20°	1411.5	5.3
20°-30°	2444.7	9.2
30°-40°	4219.9	15.9
40°-50°	7182.4	27.0
50°-60°	7107.8	26.7
60°-70°	3244.2	12.2
70°-80°	416.6	1.6
80°-90°	47.0	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°	26596.2	100.0
0°-180°	26596.2	100.0

Coefficient of Utilization

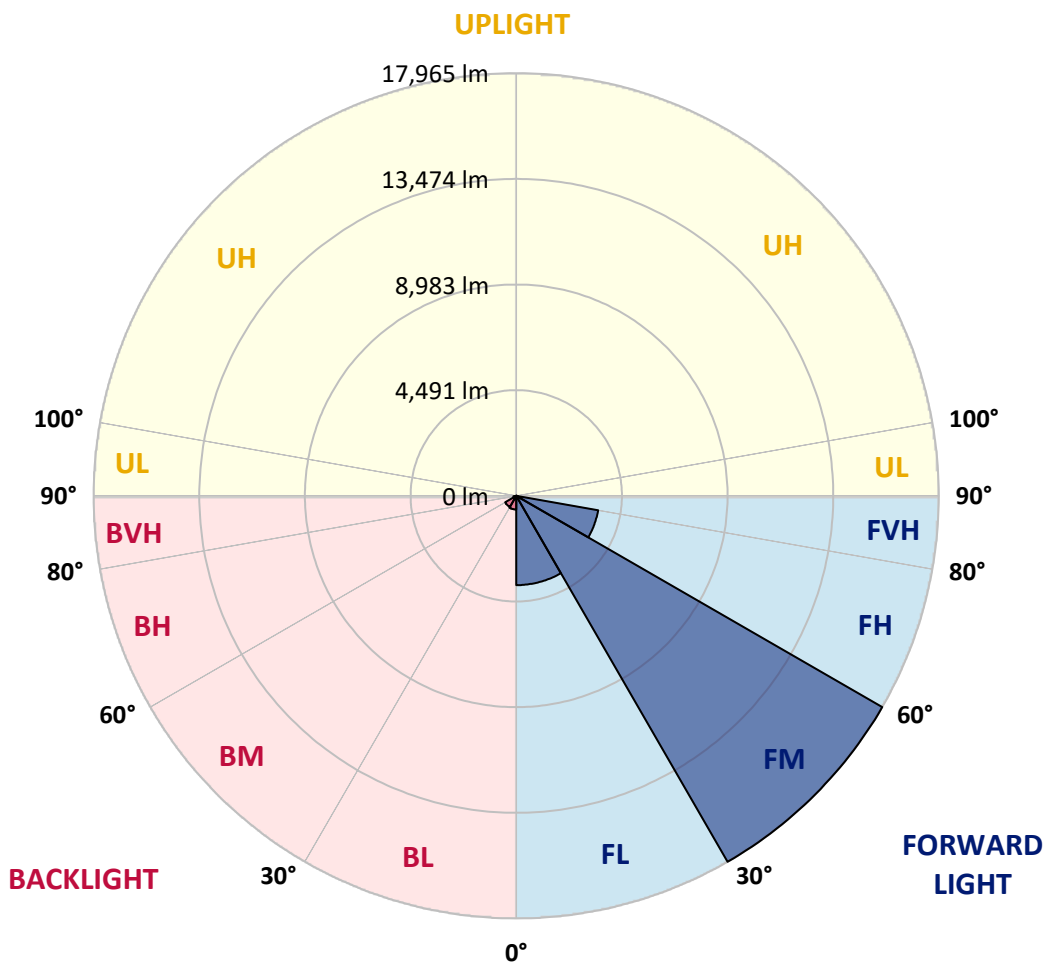


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3796.7	14.3			
FM (30°-60°)	17965.0	67.5			
FH (60°-80°)	3534.9	13.3			G2/5000
FVH (80°-90°)	41.9	0.2			G1/100
BL (0°-30°)	581.6	2.2	B2/1000		
BM (30°-60°)	545.1	2.0	B1/1000		
BH (60°-80°)	125.9	0.5	B1/500		G1/500
BVH (80°-90°)	5.0	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°	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9
2.5°	7509.5	7457.4	7385.6	7330.1	7199.1	7010.7	6811.5	6811.5	6619.5	6352.1	6079.4
5°	8661.5	8627.4	8557.4	8413.9	8266.8	8003.0	7602.8	7532.9	7190.1	6705.6	6196.0
7.5°	9129.9	9146.0	9149.6	9111.8	9041.9	8781.7	8385.1	8336.7	7789.4	7139.9	6348.6
10°	8681.2	8760.2	8837.3	8993.5	9214.2	9277.0	9052.7	9002.4	8464.1	7579.4	6513.6
12.5°	8013.7	8056.8	8099.8	8345.7	8788.9	9296.7	9531.8	9530.0	9074.2	8017.3	6723.5
15°	7703.3	7741.0	7744.6	7854.0	8238.0	8977.3	9736.3	9763.2	9669.9	8557.4	6949.7
17.5°	7767.9	7798.4	7773.2	7800.2	8001.2	8625.6	9713.0	9802.7	10152.6	9076.0	7154.2
20°	8189.6	8248.7	8151.9	8076.5	8137.6	8532.3	9634.0	9759.6	10493.5	9582.0	7340.8
22.5°	8946.8	8979.1	8857.1	8650.7	8543.1	8727.9	9612.5	9736.3	10784.3	9996.5	7448.4
25°	9788.4	9777.6	9643.0	9411.5	9185.5	9122.7	9754.3	9865.5	11024.7	10369.7	7480.8
27.5°	10629.9	10662.2	10436.1	10149.0	9878.1	9714.8	10071.9	10154.4	11295.6	10795.0	7520.2
30°	11607.9	11555.8	11333.3	11005.0	10694.5	10466.6	10583.3	10606.6	11668.9	11358.4	7624.3
32.5°	12880.1	12736.5	12487.1	11912.9	11690.4	11304.6	11333.3	11362.0	12122.9	11916.5	7750.0
35°	14606.2	14599.1	14111.0	13337.6	12795.7	12316.7	12191.1	12214.3	12810.1	12745.5	8028.1
37.5°	16684.2	16712.9	16156.7	15377.9	14380.2	13619.3	13361.0	13364.6	13854.4	13890.3	8451.5
40°	18376.3	18451.6	18119.7	17593.9	16608.8	15419.1	14984.9	14945.4	15322.2	15277.3	9056.3
42.5°	19104.8	19174.8	19298.6	19481.6	18939.7	17958.2	16933.6	16987.4	17102.3	16788.2	9734.5
45°	18747.7	18858.9	19345.3	20475.7	20985.3	20655.1	19433.2	19244.7	18758.5	18430.1	10416.4
47.5°	17260.1	17531.1	18344.0	20226.3	22009.9	23126.0	22254.0	22004.5	20416.5	19628.8	10850.7
50°	14814.4	14830.6	15962.9	18369.1	21478.8	24685.3	25133.9	24947.3	21961.4	20301.6	11069.6
52.5°	10739.4	11092.8	12130.0	14916.7	19178.3	24448.5	26969.6	26892.4	23554.8	20646.1	11385.4
54°	8164.4	8232.6	9154.9	11920.1	16535.2	23147.5	27082.6	27100.6	24346.2	20854.3	11572.0
55°	6693.1	6529.8	7498.7	10154.4	14731.9	21997.4	26713.0	26799.1	24701.5	20962.0	11710.2
57.5°	3172.5	3174.3	3915.3	5356.3	9226.7	17080.8	24453.9	24758.9	24740.9	21146.8	12135.4
60°	1606.0	1616.7	1780.0	2472.6	4557.8	11354.8	20219.1	20945.8	22837.1	21173.7	12275.4
62.5°	1123.3	1110.7	1083.8	1189.7	1918.2	5770.7	15053.1	15684.7	19402.7	20149.1	11830.3
65°	961.8	934.9	859.5	843.4	969.0	2298.6	9375.6	10405.6	14814.4	17446.8	10563.5
67.5°	821.8	811.0	742.9	701.6	685.4	1001.3	4837.7	5379.5	10125.7	12540.9	8001.2
70°	698.0	692.6	651.4	599.3	554.4	599.3	1794.4	2223.3	5643.3	6752.3	3775.4
72.5°	567.0	572.4	579.6	513.2	466.5	425.2	766.2	891.8	2361.4	2413.4	1320.7
75°	497.0	491.6	491.6	446.8	389.4	315.8	421.6	454.0	723.1	671.1	306.9
77.5°	349.9	337.3	394.8	367.9	324.8	224.3	240.5	254.8	299.7	256.6	143.5
80°	242.3	242.3	253.0	330.2	292.5	163.3	147.1	157.9	177.7	152.5	82.5
82.5°	136.4	140.0	165.1	175.9	170.5	109.5	96.9	98.7	118.5	104.1	52.1
85°	16.1	26.9	95.1	93.3	70.0	48.5	53.9	55.6	73.6	64.6	30.5
87.5°	1.8	3.6	19.7	25.1	17.9	19.7	19.7	19.7	25.1	28.7	21.5
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°	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9	5908.9
2.5°	5932.2	5795.8	5471.1	5094.3	4853.8	4462.6	4132.4	3893.8	3834.6	3719.7	3753.9
5°	5925.0	5641.5	4979.4	4279.6	3533.1	2976.9	2562.4	2235.8	2092.3	1997.1	1930.7
7.5°	5928.6	5485.5	4423.2	3308.9	2417.0	1871.5	1487.5	1288.3	1155.6	1100.0	1107.2
10°	5939.4	5309.6	3777.2	2451.1	1631.1	1209.4	974.4	879.2	834.4	827.2	825.4
12.5°	5964.5	5117.6	3159.9	1819.5	1141.2	879.2	789.5	757.2	742.9	742.9	737.5
15°	5991.4	4905.8	2646.7	1352.9	879.2	755.4	714.2	698.0	689.0	689.0	687.2
17.5°	5991.4	4661.8	2167.6	1049.7	757.2	694.4	662.1	640.6	633.4	633.4	631.6
20°	5953.8	4378.3	1742.3	845.2	687.2	637.0	604.7	581.4	572.4	568.8	567.0
22.5°	5822.8	3999.6	1387.1	726.7	629.8	586.8	545.5	518.6	511.4	507.8	509.6
25°	5589.5	3572.6	1098.2	638.8	577.8	525.8	489.8	470.1	463.0	463.0	464.7
27.5°	5349.1	3125.8	870.3	572.4	515.0	468.3	439.7	427.0	425.2	430.6	432.5
30°	5126.5	2677.2	705.2	518.6	459.4	419.9	400.1	396.6	396.6	398.4	400.1
32.5°	4879.0	2284.2	590.4	471.9	414.5	380.4	369.7	369.7	373.3	373.3	376.9
35°	4722.8	1946.9	518.6	427.0	380.4	351.7	344.5	346.3	351.7	358.8	362.5
37.5°	4638.5	1677.7	471.9	391.2	348.1	328.4	321.2	324.8	337.3	349.9	351.7
40°	4645.7	1475.0	434.3	360.6	323.0	301.5	296.1	306.9	319.4	332.0	333.8
42.5°	4724.6	1324.3	398.4	324.8	301.5	270.9	269.2	279.9	285.3	297.9	299.7
45°	4818.0	1214.8	360.6	287.1	262.0	235.1	236.9	245.9	253.0	272.7	276.3
47.5°	4846.6	1139.4	317.6	244.1	215.3	206.3	208.1	213.5	227.9	245.9	247.7
50°	4879.0	1092.8	276.3	206.3	183.1	181.3	183.1	186.6	195.6	202.8	201.0
52.5°	5017.1	1091.0	242.3	179.5	156.1	159.7	161.5	159.7	152.5	141.7	138.2
54°	5146.3	1096.4	226.1	166.9	143.5	148.9	147.1	138.2	120.2	109.5	104.1
55°	5250.3	1101.8	217.1	157.9	136.4	138.2	140.0	122.0	98.7	87.9	84.3
57.5°	5454.9	1089.2	195.6	138.2	120.2	113.1	111.3	80.7	53.9	46.7	43.1
60°	5352.7	983.3	177.7	118.5	102.3	91.5	75.4	44.9	26.9	19.7	19.7
62.5°	4950.7	834.4	157.9	96.9	84.3	70.0	39.5	25.1	12.5	7.2	5.4
65°	4428.6	701.6	141.7	77.1	66.4	44.9	21.5	16.1	5.4	0.0	0.0
67.5°	3292.7	520.4	120.2	61.0	50.3	28.7	14.3	9.0	1.8	0.0	0.0
70°	1525.2	317.6	102.3	46.7	35.9	21.5	10.8	5.4	0.0	0.0	0.0
72.5°	437.9	199.2	84.3	34.1	25.1	17.9	9.0	3.6	1.8	0.0	0.0
75°	152.5	159.7	62.8	25.1	19.7	12.5	7.2	3.6	1.8	0.0	0.0
77.5°	91.5	129.2	39.5	21.5	16.1	10.8	7.2	3.6	1.8	1.8	0.0
80°	52.1	86.1	25.1	17.9	14.3	9.0	5.4	3.6	1.8	1.8	0.0
82.5°	28.7	41.3	19.7	16.1	12.5	9.0	5.4	3.6	1.8	1.8	1.8
85°	23.3	21.5	16.1	14.3	10.8	7.2	5.4	1.8	0.0	0.0	0.0
87.5°	17.9	14.3	14.3	14.3	10.8	7.2	5.4	1.8	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)