

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: P459328

Luminaire Tested: **GALN-SA8A-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459328
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-SA8A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 28184 lumens
Efficiency: N/A
Efficacy: 115.5 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

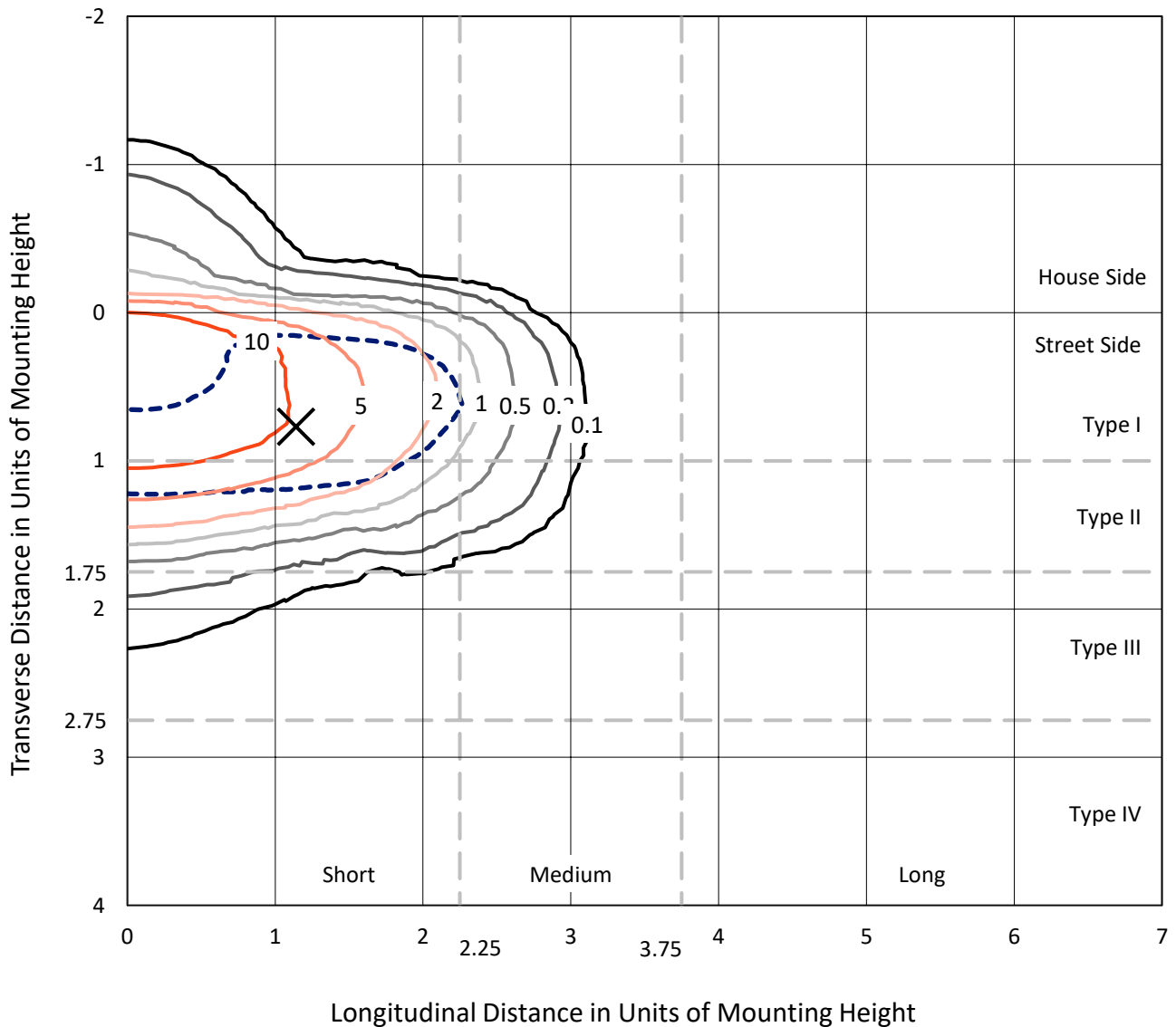
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

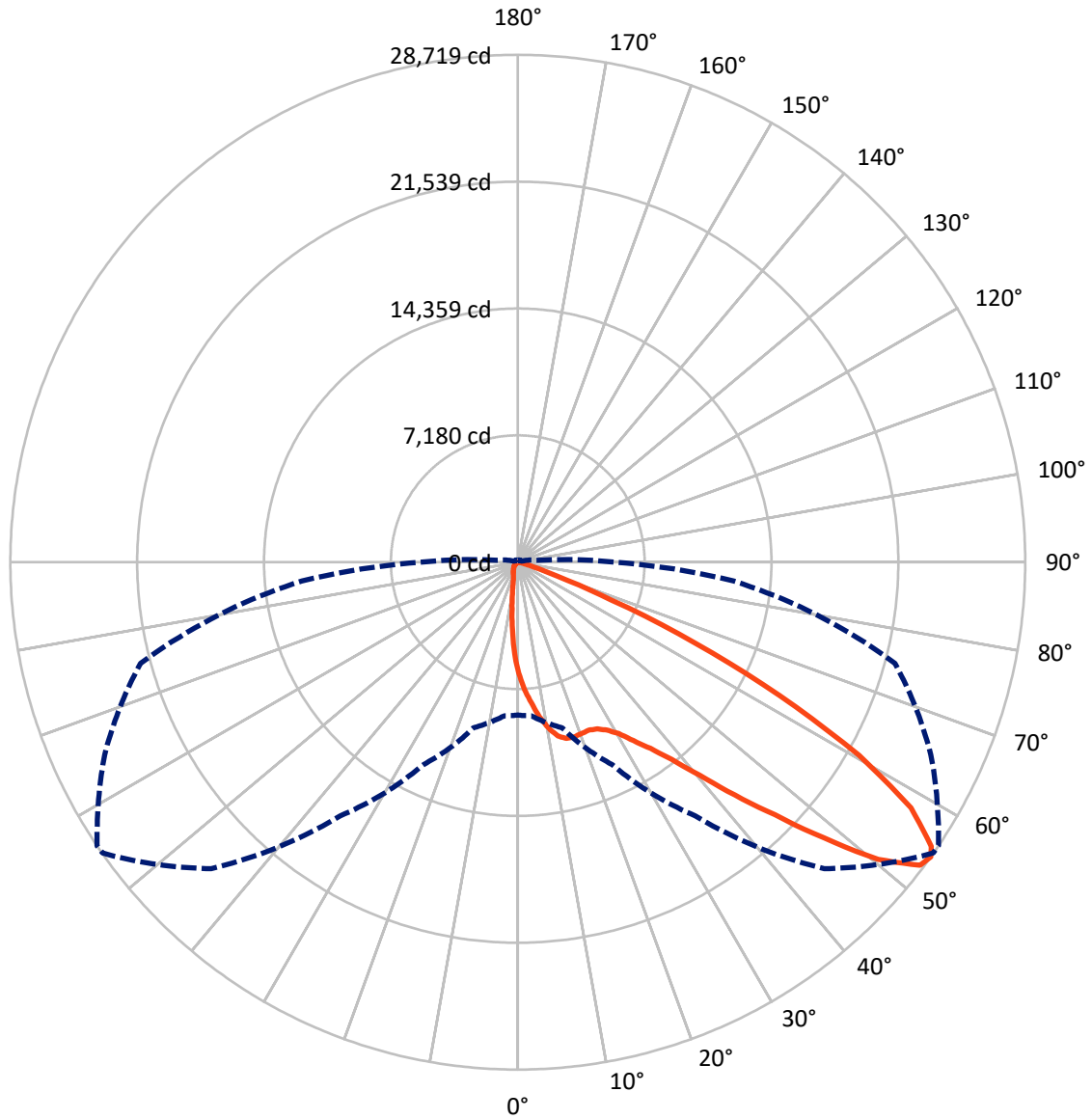
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	1332.7	0.0	1332.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	26851.2	0.0	26851.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	28184.0	0.0	28184.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.3	2.0
10°-20°	1495.8	5.3
20°-30°	2590.6	9.2
30°-40°	4471.8	15.9
40°-50°	7611.2	27.0
50°-60°	7532.2	26.7
60°-70°	3437.8	12.2
70°-80°	441.5	1.6
80°-90°	49.7	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°	28184.0	100.0
0°-180°	28184.0	100.0



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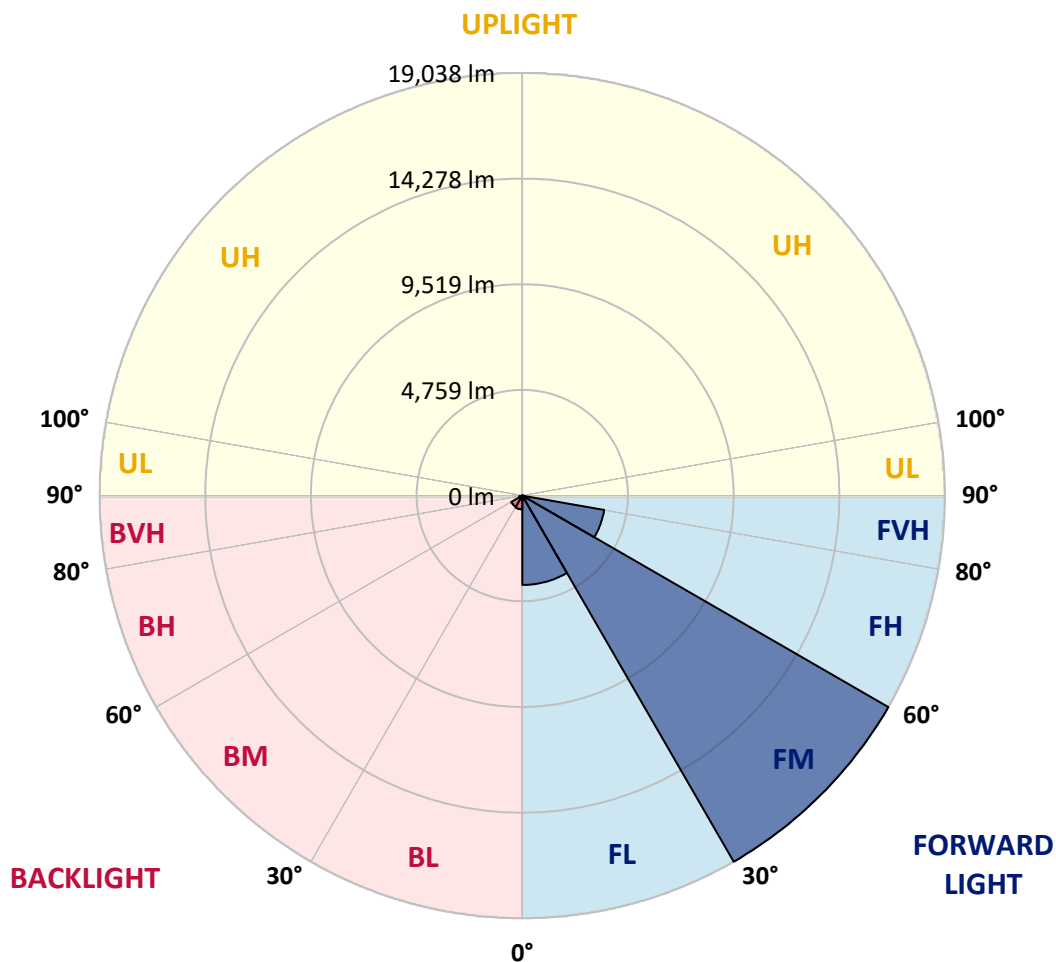
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4023.4	14.3			
FM	(30°-60°)	19037.6	67.5			
FH	(60°-80°)	3745.9	13.3			G2/5000
FVH	(80°-90°)	44.4	0.2			G1/100
BL	(0°-30°)	616.4	2.2	B2/1000		
BM	(30°-60°)	577.6	2.0	B1/1000		
BH	(60°-80°)	133.4	0.5	B1/500		G1/500
BVH	(80°-90°)	5.3	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°	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7
2.5°	7957.8	7902.7	7826.6	7767.7	7628.9	7429.2	7218.1	7218.1	7014.7	6731.3	6442.3
5°	9178.6	9142.5	9068.3	8916.2	8760.3	8480.7	8056.7	7982.5	7619.4	7105.9	6565.9
7.5°	9674.9	9692.0	9695.8	9655.9	9581.7	9306.0	8885.8	8834.4	8254.5	7566.1	6727.5
10°	9199.5	9283.2	9364.9	9530.4	9764.3	9830.8	9593.1	9539.9	8969.4	8032.0	6902.5
12.5°	8492.1	8537.8	8583.4	8843.9	9313.6	9851.7	10100.8	10098.9	9615.9	8495.9	7125.0
15°	8163.2	8203.1	8206.9	8322.9	8729.8	9513.3	10317.6	10346.1	10247.2	9068.3	7364.6
17.5°	8231.6	8264.0	8237.3	8265.9	8478.8	9140.6	10292.9	10388.0	10758.7	9617.8	7581.3
20°	8678.5	8741.2	8638.6	8558.7	8623.4	9041.7	10209.2	10342.3	11120.0	10154.1	7779.1
22.5°	9480.9	9515.2	9385.9	9167.2	9053.1	9248.9	10186.4	10317.6	11428.1	10593.3	7893.2
25°	10372.7	10361.3	10218.7	9973.4	9733.8	9667.3	10336.6	10454.5	11682.9	10988.8	7927.4
27.5°	11264.5	11298.8	11059.2	10754.9	10467.8	10294.8	10673.2	10760.6	11970.0	11439.5	7969.2
30°	12300.9	12245.7	12009.9	11662.0	11333.0	11091.5	11215.1	11239.8	12365.5	12036.6	8079.5
32.5°	13649.0	13496.9	13232.6	12624.1	12388.3	11979.5	12009.9	12040.4	12846.6	12627.9	8212.6
35°	15478.3	15470.7	14953.5	14133.9	13559.7	13052.0	12918.9	12943.6	13574.9	13506.4	8507.4
37.5°	17680.2	17710.7	17121.2	16295.9	15238.7	14432.5	14158.6	14162.5	14681.6	14719.6	8956.1
40°	19473.4	19553.2	19201.5	18644.3	17600.4	16339.7	15879.5	15837.7	16237.0	16189.5	9596.9
42.5°	20245.4	20319.5	20450.7	20644.7	20070.4	19030.3	17944.6	18001.6	18123.3	17790.5	10315.7
45°	19867.0	19984.9	20500.2	21698.1	22238.2	21888.3	20593.4	20393.7	19878.4	19530.4	11038.3
47.5°	18290.6	18577.8	19439.1	21433.8	23323.9	24506.7	23582.5	23318.2	21635.4	20800.6	11498.4
50°	15698.9	15716.0	16915.8	19465.8	22761.1	26159.1	26634.5	26436.7	23272.6	21513.7	11730.4
52.5°	11380.5	11755.1	12854.2	15807.3	20323.3	25908.1	28579.7	28497.9	24961.1	21878.8	12065.1
54°	8651.9	8724.1	9701.5	12631.7	17522.4	24529.5	28699.5	28718.5	25799.7	22099.4	12262.8
55°	7092.6	6919.6	7946.4	10760.6	15611.4	23310.6	28307.8	28399.1	26176.2	22213.4	12409.3
57.5°	3361.9	3363.8	4149.1	5676.0	9777.6	18100.5	25913.8	26237.0	26218.0	22409.3	12859.9
60°	1701.9	1713.3	1886.3	2620.3	4829.8	12032.8	21426.2	22196.3	24200.5	22437.8	13008.2
62.5°	1190.3	1177.0	1148.5	1260.7	2032.7	6115.3	15951.8	16621.1	20561.0	21352.1	12536.7
65°	1019.2	990.7	910.8	893.7	1026.8	2435.8	9935.4	11026.9	15698.9	18488.4	11194.2
67.5°	870.9	859.5	787.2	743.5	726.4	1061.0	5126.5	5700.7	10730.2	13289.7	8478.8
70°	739.7	734.0	690.2	635.1	587.6	635.1	1901.5	2356.0	5980.3	7155.4	4000.8
72.5°	600.9	606.6	614.2	543.8	494.4	450.7	811.9	945.1	2502.4	2557.5	1399.5
75°	526.7	521.0	521.0	473.5	412.6	334.7	446.9	481.1	766.3	711.2	325.2
77.5°	370.8	357.5	418.3	389.8	344.2	237.7	254.8	270.0	317.6	271.9	152.1
80°	256.7	256.7	268.1	349.9	309.9	173.0	155.9	167.3	188.2	161.6	87.5
82.5°	144.5	148.3	174.9	186.3	180.6	116.0	102.7	104.6	125.5	110.3	55.1
85°	17.1	28.5	100.8	98.9	74.2	51.3	57.0	58.9	78.0	68.5	32.3
87.5°	1.9	3.8	20.9	26.6	19.0	20.9	20.9	20.9	26.6	30.4	22.8
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°	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7
2.5°	6286.4	6141.9	5797.7	5398.4	5143.6	4729.1	4379.2	4126.3	4063.5	3941.8	3978.0
5°	6278.8	5978.3	5276.7	4535.1	3744.1	3154.6	2715.4	2369.3	2217.2	2116.4	2046.0
7.5°	6282.6	5812.9	4687.2	3506.4	2561.3	1983.3	1576.4	1365.3	1224.6	1165.6	1173.2
10°	6294.0	5626.6	4002.7	2597.5	1728.5	1281.6	1032.5	931.7	884.2	876.6	874.7
12.5°	6320.6	5423.1	3348.6	1928.1	1209.4	931.7	836.7	802.4	787.2	787.2	781.5
15°	6349.1	5198.7	2804.7	1433.7	931.7	800.5	756.8	739.7	730.2	730.2	728.3
17.5°	6349.1	4940.1	2297.0	1112.4	802.4	735.9	701.7	678.8	671.2	671.2	669.3
20°	6309.2	4639.7	1846.4	895.6	728.3	675.0	640.8	616.1	606.6	602.8	600.9
22.5°	6170.4	4238.5	1469.9	770.1	667.4	621.8	578.1	549.5	541.9	538.1	540.0
25°	5923.2	3785.9	1163.7	676.9	612.3	557.1	519.1	498.2	490.6	490.6	492.5
27.5°	5668.4	3312.4	922.2	606.6	545.7	496.3	465.9	452.6	450.7	456.4	458.3
30°	5432.6	2837.1	747.3	549.5	486.8	445.0	424.0	420.2	420.2	422.1	424.0
32.5°	5170.2	2420.6	625.6	500.1	439.2	403.1	391.7	391.7	395.5	395.5	399.3
35°	5004.8	2063.1	549.5	452.6	403.1	372.7	365.1	367.0	372.7	380.3	384.1
37.5°	4915.4	1777.9	500.1	414.5	368.9	348.0	340.4	344.2	357.5	370.8	372.7
40°	4923.0	1563.0	460.2	382.2	342.3	319.5	313.7	325.2	338.5	351.8	353.7
42.5°	5006.7	1403.3	422.1	344.2	319.5	287.1	285.2	296.6	302.3	315.7	317.6
45°	5105.6	1287.3	382.2	304.2	277.6	249.1	251.0	260.5	268.1	289.0	292.8
47.5°	5136.0	1207.5	336.6	258.6	228.2	218.7	220.6	226.3	241.5	260.5	262.4
50°	5170.2	1158.0	292.8	218.7	194.0	192.1	194.0	197.8	207.3	214.9	213.0
52.5°	5316.6	1156.1	256.7	190.2	165.4	169.2	171.1	169.2	161.6	150.2	146.4
54°	5453.5	1161.8	239.6	176.8	152.1	157.8	155.9	146.4	127.4	116.0	110.3
55°	5563.8	1167.5	230.1	167.3	144.5	146.4	148.3	129.3	104.6	93.2	89.4
57.5°	5780.6	1154.2	207.3	146.4	127.4	119.8	117.9	85.6	57.0	49.4	45.6
60°	5672.2	1042.0	188.2	125.5	108.4	97.0	79.9	47.5	28.5	20.9	20.9
62.5°	5246.3	884.2	167.3	102.7	89.4	74.2	41.8	26.6	13.3	7.6	5.7
65°	4692.9	743.5	150.2	81.8	70.4	47.5	22.8	17.1	5.7	0.0	0.0
67.5°	3489.3	551.4	127.4	64.7	53.2	30.4	15.2	9.5	1.9	0.0	0.0
70°	1616.3	336.6	108.4	49.4	38.0	22.8	11.4	5.7	0.0	0.0	0.0
72.5°	464.0	211.1	89.4	36.1	26.6	19.0	9.5	3.8	1.9	0.0	0.0
75°	161.6	169.2	66.6	26.6	20.9	13.3	7.6	3.8	1.9	0.0	0.0
77.5°	97.0	136.9	41.8	22.8	17.1	11.4	7.6	3.8	1.9	1.9	0.0
80°	55.1	91.3	26.6	19.0	15.2	9.5	5.7	3.8	1.9	1.9	0.0
82.5°	30.4	43.7	20.9	17.1	13.3	9.5	5.7	3.8	1.9	1.9	1.9
85°	24.7	22.8	17.1	15.2	11.4	7.6	5.7	1.9	0.0	0.0	0.0
87.5°	19.0	15.2	15.2	15.2	11.4	7.6	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)