

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: P458356

Luminaire Tested: **GALN-SA9D-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47746 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

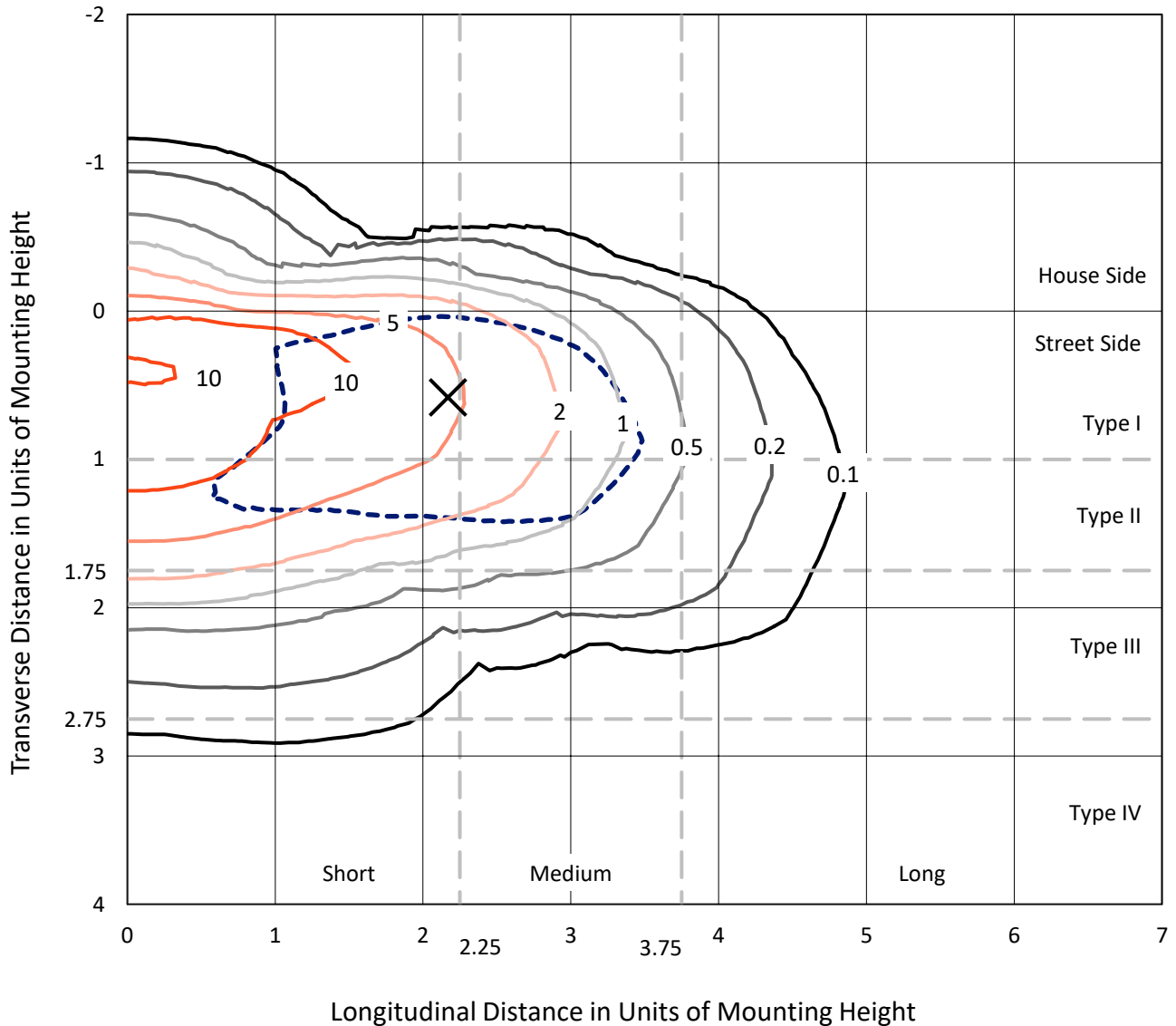
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

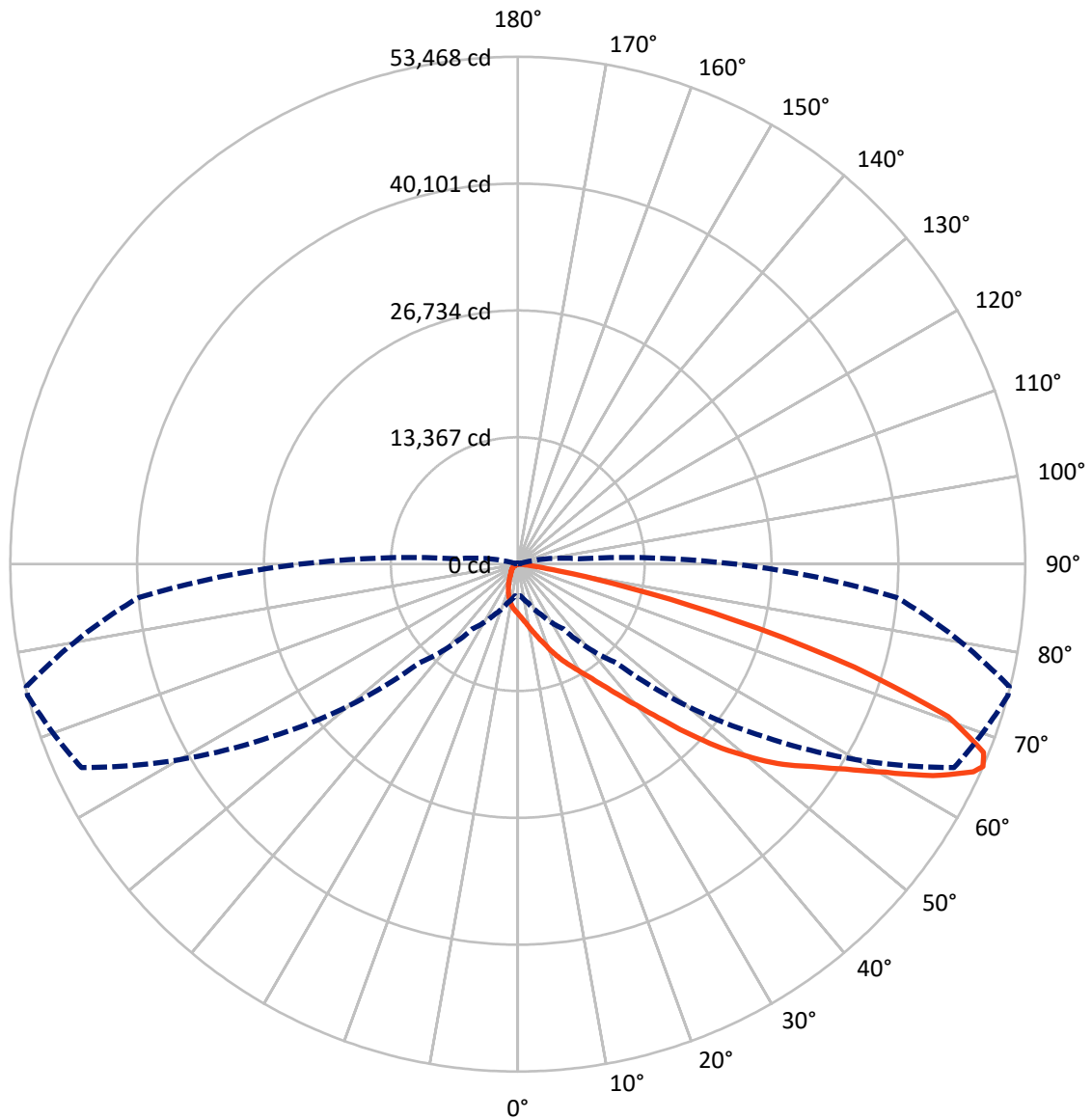
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2947.6	0.0	2947.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	44798.4	0.0	44798.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	47746.0	0.0	47746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.6	1.1
10°-20°	1482.2	3.1
20°-30°	2559.4	5.4
30°-40°	4616.6	9.7
40°-50°	8340.1	17.5
50°-60°	13002.2	27.2
60°-70°	12351.6	25.9
70°-80°	4629.1	9.7
80°-90°	261.2	0.5
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°	47746.0	100.0
0°-180°	47746.0	100.0

Coefficient of Utilization



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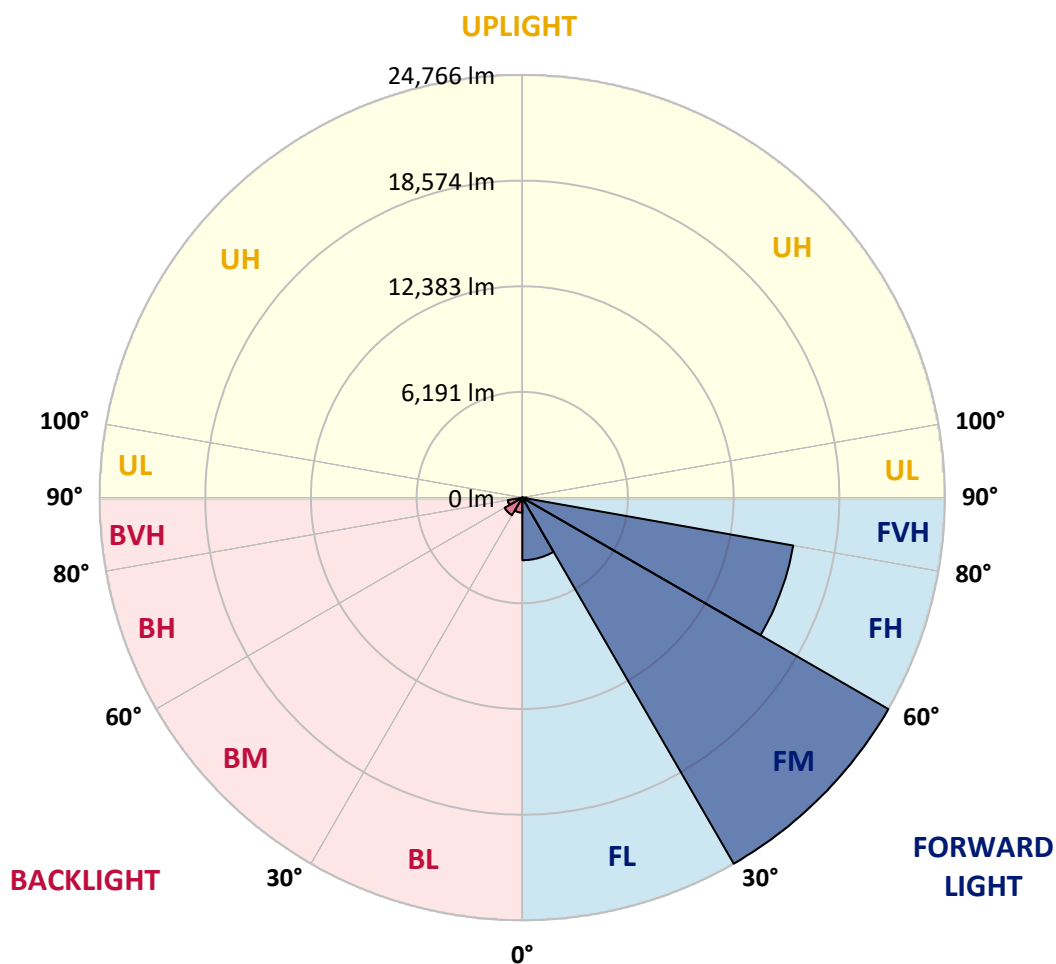
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3664.9	7.7			
FM	(30°-60°)	24765.8	51.9			
FH	(60°-80°)	16119.9	33.8			G5
FVH	(80°-90°)	247.7	0.5			G3/500
BL	(0°-30°)	880.3	1.8	B2/1000		
BM	(30°-60°)	1193.1	2.5	B2/2500		
BH	(60°-80°)	860.7	1.8	B2/1000		G2/1000
BVH	(80°-90°)	13.5	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5
2.5°	6238.3	6160.6	6185.3	6150.0	6068.8	5948.8	5842.9	5691.0	5539.2	5514.5	5345.1
5°	7060.8	7039.7	7011.4	6909.0	6852.6	6669.0	6450.1	6188.8	5874.6	5818.1	5511.0
7.5°	7622.2	7611.6	7625.7	7572.8	7523.3	7357.4	7124.4	6767.8	6280.6	6248.9	5736.9
10°	7805.8	7834.0	7887.0	7971.7	8049.4	7996.4	7819.9	7375.1	6806.7	6714.9	5994.7
12.5°	7699.9	7731.6	7858.7	8084.7	8335.3	8480.1	8409.5	8084.7	7364.5	7290.3	6284.2
15°	7428.0	7466.8	7646.9	7996.4	8444.8	8854.3	9030.8	8797.8	8014.1	7894.0	6633.7
17.5°	7025.5	7082.0	7339.8	7802.2	8416.5	9122.6	9620.4	9542.7	8706.0	8593.1	7015.0
20°	6721.9	6764.3	6983.2	7512.7	8296.5	9270.9	10181.7	10400.6	9560.4	9366.2	7463.3
22.5°	6923.2	6937.3	7011.4	7329.2	8081.1	9309.7	10676.0	11293.8	10467.7	10294.7	7929.3
25°	7908.1	7766.9	7692.8	7622.2	8035.2	9274.4	11124.4	12225.9	11371.5	11187.9	8391.8
27.5°	9461.5	9398.0	9023.8	8522.4	8427.1	9320.3	11420.9	13108.5	12222.3	12024.6	8843.7
30°	11152.6	11043.2	10813.7	10079.4	9341.5	9645.1	11636.3	13966.4	13228.5	12967.2	9256.8
32.5°	12706.0	12776.6	12434.2	11678.6	10824.3	10337.1	11915.2	14901.9	14382.9	14058.1	9736.9
35°	14517.1	14658.3	14132.3	13408.6	12409.4	11586.9	12458.9	15957.5	15848.1	15438.5	10478.3
37.5°	16356.5	16441.2	16119.9	15103.2	14202.9	13175.5	13482.7	17260.2	17652.1	17302.6	11364.4
40°	17902.8	18019.3	17782.7	16879.0	15918.7	15014.9	14969.0	18679.5	19798.6	19438.5	12684.8
42.5°	19085.5	19173.7	19180.8	18541.8	17676.8	17267.3	16864.8	20490.6	22488.8	22072.2	14217.0
45°	20578.8	20705.9	20631.8	20197.6	19551.5	19477.3	19269.1	22679.4	25708.5	25182.5	16204.6
47.5°	22887.7	22972.5	22788.9	22277.0	21620.3	21736.8	21613.3	25133.1	28991.8	28539.9	18262.9
50°	24490.6	24631.8	24893.0	25097.8	24621.2	24190.5	23823.3	27424.3	32109.2	31703.2	20367.0
52.5°	24472.9	24705.9	25532.0	26562.9	27604.4	27473.8	26418.2	29955.6	35085.4	34584.0	22344.1
55°	22824.2	23276.1	24490.6	26319.3	29203.7	30640.5	30160.4	32885.9	37655.5	37316.6	24635.3
57.5°	19420.9	19696.2	21383.8	23939.8	28310.5	32130.4	34495.8	36857.6	40737.6	40578.7	28194.0
60°	13062.6	13186.1	15357.3	18517.1	24102.2	30644.1	37673.2	41662.5	44532.8	44455.1	32349.3
62.5°	7484.5	7537.5	9112.0	11777.5	17150.8	25969.8	37941.5	47590.1	49083.5	49125.8	37157.7
65°	4028.2	4056.5	5327.4	6912.6	10435.9	18510.0	34118.0	50838.1	52762.2	52843.4	40137.4
66°	3477.5	3343.3	4240.0	5892.3	8303.6	14732.5	31699.7	50721.6	53468.3	53380.0	40031.5
67.5°	2644.3	2764.3	3385.7	4529.5	6153.5	10474.8	26171.0	48465.7	52931.6	52656.3	38404.0
70°	1892.3	1941.7	2411.3	3230.3	4190.6	5747.5	16723.6	40253.9	48109.1	47738.4	33457.8
72.5°	1221.5	1274.5	1708.7	2337.1	3029.1	3138.5	9362.7	29083.6	37090.6	37037.7	25196.6
75°	872.0	921.4	1129.7	1673.4	2277.1	1941.7	4508.4	19600.9	23579.7	23420.8	15586.8
77.5°	631.9	656.7	755.5	1094.4	1627.5	1391.0	2090.0	10467.7	11738.7	12292.9	6887.9
80°	363.6	384.8	526.0	667.3	1101.5	949.7	999.1	4201.2	4331.8	4123.5	2153.6
82.5°	180.1	204.8	314.2	455.4	688.4	639.0	459.0	1263.9	1334.5	1299.2	543.7
85°	42.4	53.0	176.5	300.1	335.4	286.0	222.4	370.7	459.0	448.4	208.3
87.5°	3.5	7.1	63.5	53.0	56.5	95.3	77.7	95.3	148.3	137.7	74.1
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°	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5	5221.5
2.5°	5267.4	5200.3	5006.1	4815.5	4656.6	4490.7	4338.9	4250.6	4215.3	4176.5	4194.1
5°	5341.5	5179.1	4787.3	4448.3	4116.5	3834.0	3608.1	3463.3	3392.7	3382.1	3364.5
7.5°	5440.4	5161.5	4554.2	4024.7	3590.4	3276.2	3018.5	2810.2	2746.7	2690.2	2644.3
10°	5560.4	5129.7	4264.8	3579.8	3117.4	2722.0	2383.0	2135.9	2008.8	1973.5	1998.2
12.5°	5687.5	5069.7	3961.1	3170.3	2637.2	2132.4	1818.2	1694.6	1659.3	1645.2	1648.7
15°	5814.6	4995.5	3643.4	2774.9	2100.6	1701.7	1556.9	1525.1	1511.0	1504.0	1496.9
17.5°	5931.1	4875.5	3286.8	2390.1	1701.7	1454.5	1401.6	1373.3	1345.1	1334.5	1316.8
20°	6068.8	4737.8	2965.6	1959.4	1440.4	1316.8	1253.3	1200.3	1158.0	1129.7	1126.2
22.5°	6199.4	4561.3	2630.2	1624.0	1313.3	1182.7	1080.3	1023.8	974.4	939.1	949.7
25°	6270.0	4346.0	2330.1	1415.7	1196.8	1048.5	935.6	865.0	812.0	794.3	790.8
27.5°	6270.0	4081.2	2037.1	1295.7	1090.9	928.5	812.0	744.9	709.6	684.9	688.4
30°	6220.6	3788.1	1765.2	1203.9	999.1	822.6	713.1	653.1	624.9	607.2	603.7
32.5°	6181.8	3509.2	1532.2	1115.6	903.8	730.8	635.5	589.6	561.3	543.7	543.7
35°	6241.8	3269.2	1352.2	1027.4	815.5	660.2	575.5	533.1	504.9	490.7	487.2
37.5°	6400.7	3050.3	1214.5	932.0	734.3	600.2	533.1	483.7	455.4	437.8	430.7
40°	6792.5	2926.7	1112.1	843.8	656.7	550.7	483.7	437.8	402.5	384.8	381.3
42.5°	7421.0	2930.3	1013.2	762.6	596.6	508.4	441.3	388.3	349.5	331.9	328.3
45°	8367.1	3064.4	935.6	684.9	543.7	462.5	395.4	338.9	303.6	286.0	286.0
47.5°	9500.4	3325.7	868.5	617.8	494.3	420.1	349.5	293.0	257.7	243.6	243.6
50°	10729.0	3664.6	801.4	547.2	451.9	374.2	300.1	254.2	225.9	215.4	215.4
52.5°	11982.3	4074.1	734.3	490.7	406.0	324.8	257.7	225.9	201.2	194.2	190.6
55°	13627.4	4596.6	663.7	430.7	356.6	278.9	229.5	197.7	169.5	158.9	155.3
57.5°	16158.8	5383.9	586.1	377.8	293.0	233.0	197.7	165.9	134.2	116.5	113.0
60°	19212.6	6344.2	504.9	331.9	236.5	190.6	158.9	127.1	98.9	77.7	74.1
62.5°	22072.2	6954.9	427.2	278.9	187.1	144.7	113.0	95.3	70.6	49.4	45.9
65°	23336.1	6750.2	353.0	225.9	148.3	102.4	74.1	67.1	42.4	21.2	17.7
66°	22916.0	6446.6	324.8	204.8	134.2	88.3	63.5	56.5	31.8	10.6	10.6
67.5°	21676.8	5729.9	282.4	176.5	116.5	70.6	49.4	42.4	17.7	3.5	0.0
70°	18573.6	4635.4	222.4	130.6	84.7	49.4	28.2	21.2	10.6	0.0	0.0
72.5°	14266.4	3452.8	176.5	98.9	60.0	28.2	14.1	7.1	10.6	0.0	0.0
75°	8741.3	1973.5	137.7	74.1	38.8	17.7	10.6	0.0	10.6	3.5	0.0
77.5°	3879.9	886.1	91.8	49.4	28.2	14.1	7.1	0.0	7.1	3.5	0.0
80°	981.5	289.5	53.0	35.3	21.2	10.6	3.5	0.0	7.1	7.1	3.5
82.5°	268.3	105.9	38.8	28.2	17.7	10.6	3.5	0.0	7.1	7.1	7.1
85°	105.9	49.4	35.3	28.2	21.2	10.6	3.5	0.0	7.1	7.1	7.1
87.5°	49.4	35.3	35.3	31.8	24.7	10.6	3.5	0.0	7.1	3.5	7.1
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)