

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: P459362

Luminaire Tested: **GALN-SA8B-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35407 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

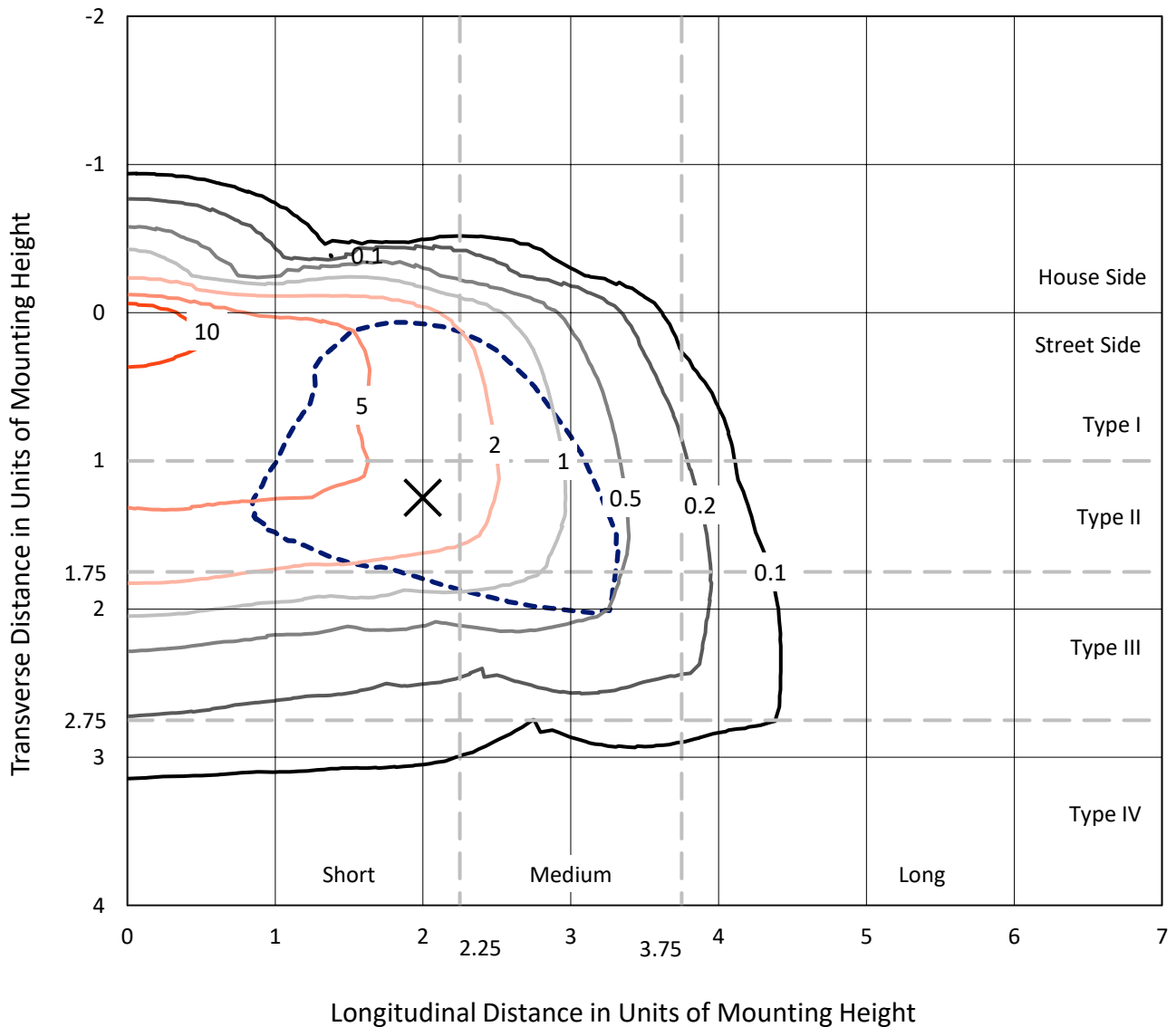
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

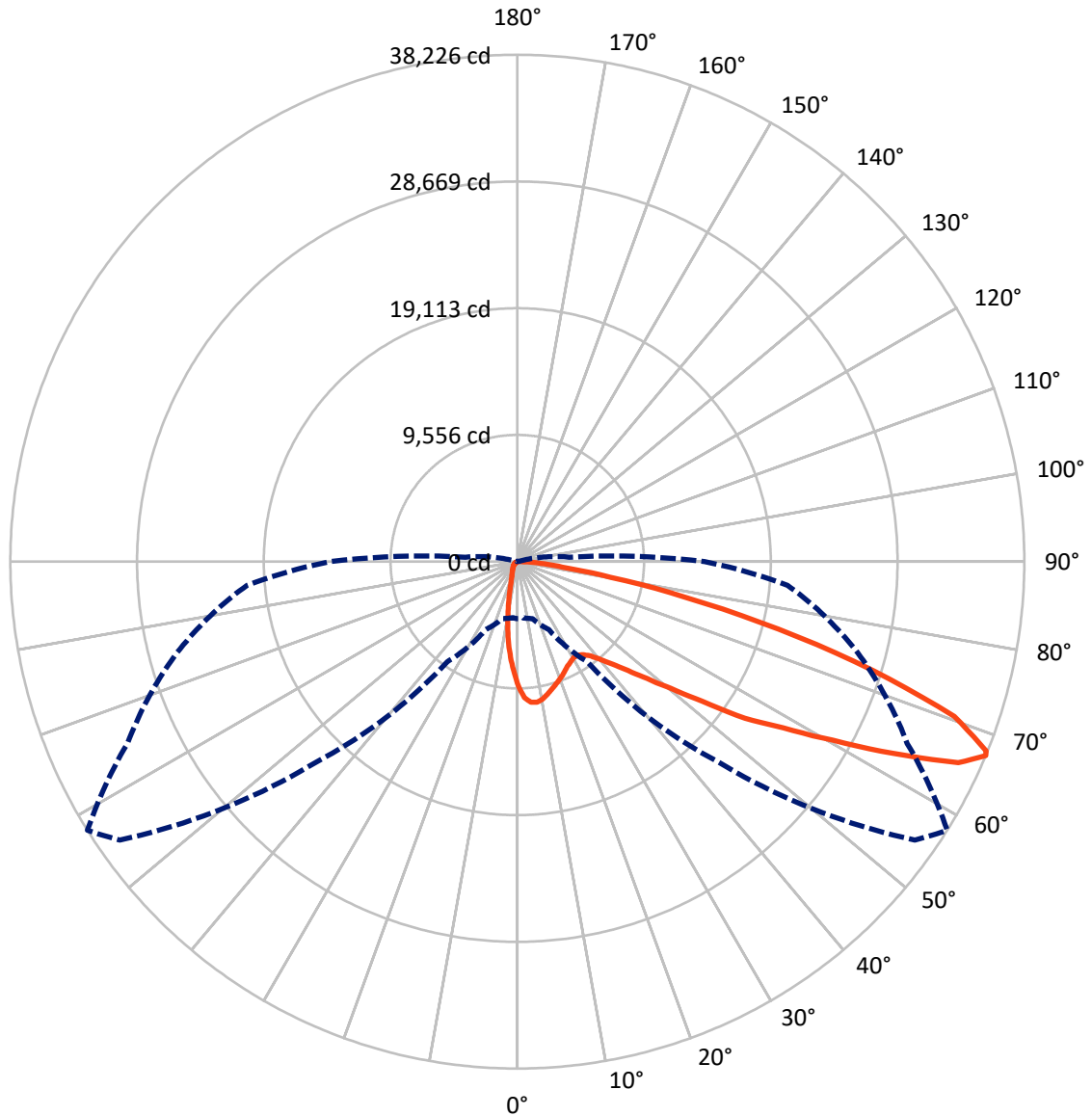
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2555.2	0.0	2555.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	32851.8	0.0	32851.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	35407.0	0.0	35407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.7	2.2
10°-20°	1645.0	4.6
20°-30°	2229.1	6.3
30°-40°	3091.6	8.7
40°-50°	4930.8	13.9
50°-60°	8523.2	24.1
60°-70°	9736.2	27.5
70°-80°	4059.1	11.5
80°-90°	430.4	1.2
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°	35407.0	100.0
0°-180°	35407.0	100.0

Coefficient of Utilization



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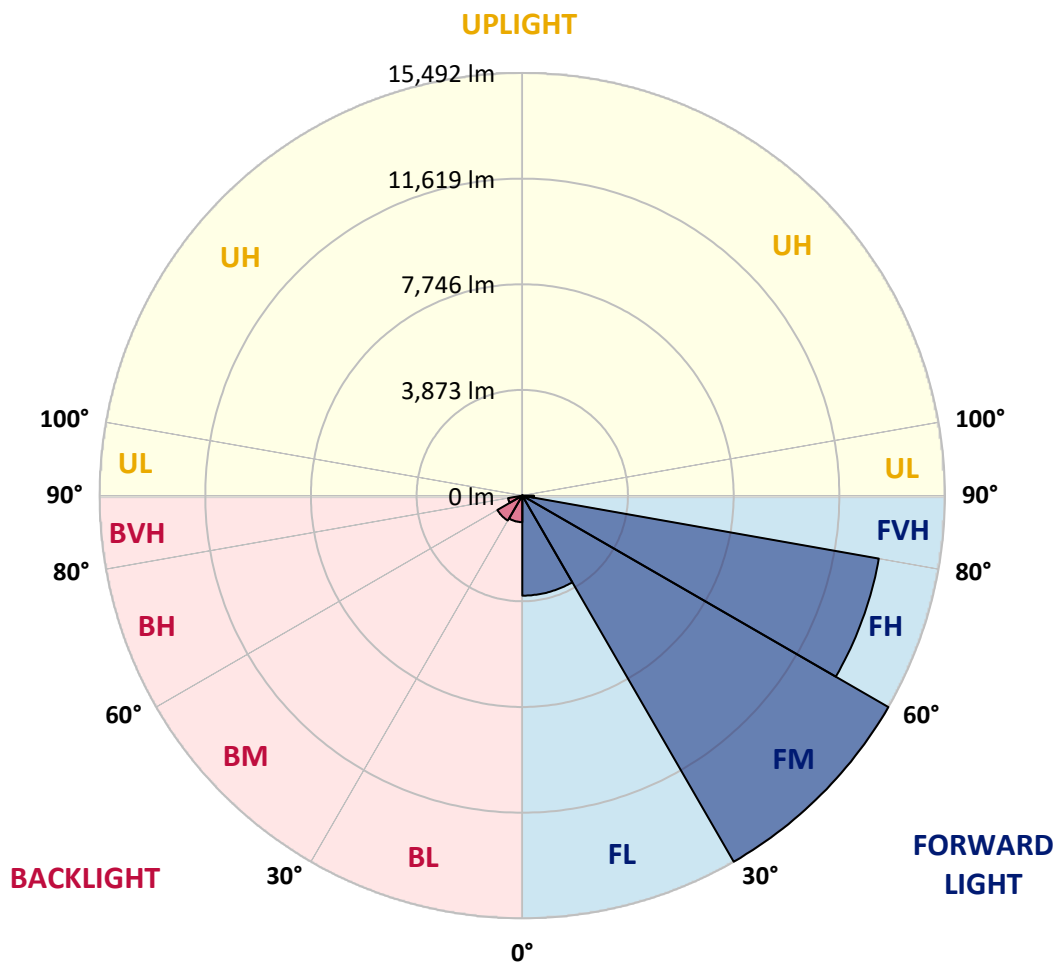
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3665.5	10.4			
FM	(30°-60°)	15492.0	43.8			
FH	(60°-80°)	13267.1	37.5			G5
FVH	(80°-90°)	427.3	1.2			G3/500
BL	(0°-30°)	970.3	2.7	B2/1000		
BM	(30°-60°)	1053.6	3.0	B2/2500		
BH	(60°-80°)	528.2	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1
2.5°	10893.2	10909.8	10848.3	10798.6	10670.8	10533.6	10351.4	10254.4	10088.8	9802.5	9485.4
5°	11148.8	11170.1	11160.6	11148.8	11099.1	10966.6	10734.7	10649.5	10405.8	9939.7	9367.1
7.5°	10580.9	10659.0	10668.5	10760.7	10848.3	10860.1	10772.6	10708.7	10483.9	9937.4	9156.6
10°	9828.5	9880.6	9956.3	10062.8	10273.3	10448.4	10533.6	10524.1	10394.0	9864.0	8910.5
12.5°	9069.0	9097.4	9213.3	9395.5	9653.4	9951.6	10178.7	10223.6	10226.0	9776.5	8704.7
15°	8416.0	8404.2	8494.1	8704.7	9066.7	9440.5	9847.4	9918.4	10032.0	9691.3	8513.0
17.5°	7857.6	7919.1	7933.3	8165.2	8498.8	8983.8	9502.0	9627.4	9854.5	9617.9	8354.5
20°	7512.2	7545.3	7576.1	7706.2	8006.7	8517.7	9177.9	9350.6	9688.9	9551.7	8177.0
22.5°	7410.4	7431.7	7405.7	7445.9	7658.9	8113.1	8825.3	9054.8	9530.4	9490.2	8032.7
25°	7488.5	7509.8	7448.3	7401.0	7474.3	7784.3	8484.6	8763.8	9402.6	9478.3	7923.9
27.5°	7677.8	7718.0	7632.8	7547.7	7505.1	7606.8	8217.2	8541.4	9315.1	9535.1	7874.2
30°	7973.5	7997.2	7933.3	7829.2	7732.2	7630.5	8077.7	8387.6	9291.4	9667.6	7869.4
32.5°	8295.3	8345.0	8309.5	8240.9	8115.5	7874.2	8117.9	8392.3	9348.2	9859.3	7928.6
35°	8692.8	8749.6	8782.7	8768.5	8607.6	8307.2	8373.4	8605.3	9499.6	10211.8	8089.5
37.5°	9083.2	9132.9	9319.8	9383.7	9241.7	8957.8	8870.3	9024.1	9833.3	10673.2	8380.5
40°	9530.4	9596.6	9859.3	10103.0	10034.4	9736.2	9575.4	9703.1	10344.3	11368.8	8931.8
42.5°	9958.7	10077.0	10476.8	10907.4	10971.3	10637.7	10531.2	10573.8	11101.4	12369.6	9700.8
45°	10566.7	10677.9	11193.7	11778.1	12078.6	11818.4	11709.5	11702.4	12140.1	13777.4	10947.7
47.5°	11444.5	11543.9	12152.0	12729.3	13264.0	13299.5	13093.7	13164.6	13446.2	15424.2	12476.1
50°	12521.1	12755.3	13155.2	13756.1	14470.7	15048.0	15111.9	15017.2	15258.6	17331.2	14312.2
52.5°	14085.0	14174.9	14541.7	15036.2	15873.7	16853.3	17612.8	17482.7	17406.9	19148.3	16167.1
55°	15251.5	15372.1	15942.4	16621.4	17849.4	19141.2	20788.0	20833.0	19877.1	20894.5	17981.9
57.5°	14898.9	15083.5	15947.1	17312.3	20011.9	22373.3	23598.9	23629.6	22162.7	22590.9	20030.9
60°	13088.9	13176.5	14413.9	16235.7	20196.5	25875.0	27585.6	27337.2	24488.5	24488.5	21840.9
62.5°	9282.0	9419.2	10422.4	13103.1	18239.8	27091.1	32360.3	31846.9	27692.1	26303.2	22919.8
65°	5931.7	5799.2	6464.0	8271.7	13588.2	25295.3	36517.4	36548.2	30706.4	27029.6	22330.7
67°	4296.7	4244.7	4436.3	5654.8	9213.3	21263.6	36605.0	38225.7	32438.4	26570.6	20447.3
67.5°	3930.0	3970.2	4109.8	5101.2	8371.0	19349.5	36207.5	38126.3	32828.8	26293.8	19765.9
70°	2978.8	2910.2	3061.7	3608.2	5018.4	12206.4	31146.5	34967.7	32343.7	23546.8	15793.3
72.5°	2191.0	2183.9	2394.4	2950.4	3863.7	6501.9	23381.2	28037.5	26423.9	17929.8	9944.5
75°	1478.8	1545.0	1881.0	2465.4	3501.7	4216.3	15940.0	20340.8	18343.9	10181.1	4064.9
77.5°	842.3	847.0	1211.4	1980.4	3144.5	3392.9	9445.2	12958.8	9710.2	3385.8	1206.7
80°	364.4	399.9	601.0	1438.6	2607.4	3004.9	5415.9	7121.8	3927.6	716.9	390.4
82.5°	134.9	158.5	265.0	884.9	1902.3	2474.9	3272.2	3400.0	1332.1	253.2	243.7
85°	0.0	4.7	97.0	414.1	991.4	1104.9	2186.2	2015.9	589.1	120.7	158.5
87.5°	0.0	0.0	0.0	42.6	130.1	411.7	679.1	757.1	142.0	42.6	37.9
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°	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1	9386.1
2.5°	9315.1	9161.3	8775.6	8390.0	8103.7	7864.7	7505.1	7308.7	7204.6	7050.8	7060.3
5°	9080.9	8768.5	8089.5	7386.8	6818.9	6265.3	5602.8	5335.4	5110.6	4982.9	4897.7
7.5°	8733.0	8271.7	7266.1	6329.2	5456.1	4488.4	3762.0	3277.0	2950.4	2829.8	2713.8
10°	8352.1	7739.3	6430.9	5131.9	3920.5	2922.1	2306.9	1862.1	1703.5	1556.9	1571.0
12.5°	7999.6	7254.3	5664.3	4050.7	2747.0	1857.3	1448.0	1265.8	1213.8	1197.2	1197.2
15°	7710.9	6790.5	4840.9	3045.1	1883.4	1334.4	1159.4	1109.7	1090.7	1086.0	1086.0
17.5°	7403.3	6350.4	4098.0	2250.1	1369.9	1116.8	1057.6	1024.5	1017.4	1012.7	1012.7
20°	7128.9	5908.0	3392.9	1675.2	1107.3	1005.6	967.7	946.4	939.3	934.6	937.0
22.5°	6868.6	5515.2	2730.4	1265.8	974.8	915.7	877.8	856.5	842.3	830.5	832.8
25°	6636.7	5136.7	2195.7	1036.3	877.8	825.7	787.9	757.1	726.4	712.2	709.8
27.5°	6473.5	4805.4	1710.6	887.3	790.3	733.5	686.2	648.3	608.1	586.8	582.0
30°	6338.6	4469.4	1353.4	783.2	702.7	648.3	589.1	534.7	492.1	470.8	461.4
32.5°	6251.1	4150.0	1067.1	698.0	629.4	563.1	496.9	442.4	395.1	373.8	369.1
35°	6236.9	3882.7	873.1	627.0	563.1	492.1	423.5	364.4	324.1	302.9	298.1
37.5°	6338.6	3676.8	731.1	570.2	508.7	430.6	354.9	300.5	265.0	248.4	246.1
40°	6610.7	3546.7	634.1	522.9	459.0	373.8	302.9	255.5	220.0	203.5	203.5
42.5°	7128.9	3551.4	570.2	477.9	409.3	319.4	257.9	212.9	182.2	168.0	163.3
45°	7938.1	3712.3	515.8	433.0	362.0	276.8	220.0	175.1	144.3	132.5	132.5
47.5°	9021.7	4031.7	468.5	388.0	319.4	236.6	186.9	142.0	115.9	104.1	104.1
50°	10439.0	4545.2	428.3	350.2	283.9	203.5	151.4	115.9	89.9	80.4	78.1
52.5°	11920.1	5179.3	380.9	317.0	243.7	172.7	123.0	89.9	68.6	61.5	59.2
55°	13555.0	5799.2	336.0	283.9	198.7	144.3	97.0	71.0	49.7	42.6	42.6
57.5°	15204.2	6407.2	281.6	236.6	156.2	106.5	75.7	52.1	33.1	26.0	26.0
60°	16600.1	6603.6	239.0	191.6	118.3	75.7	54.4	33.1	18.9	11.8	11.8
62.5°	16791.8	5941.1	201.1	146.7	85.2	52.1	28.4	18.9	7.1	4.7	4.7
65°	15750.7	4826.7	168.0	111.2	56.8	26.0	11.8	7.1	2.4	0.0	0.0
67°	14113.4	3913.4	137.2	82.8	40.2	16.6	7.1	2.4	0.0	0.0	0.0
67.5°	13694.6	3731.2	132.5	78.1	35.5	14.2	4.7	2.4	0.0	0.0	0.0
70°	10746.5	2794.3	94.6	47.3	21.3	9.5	0.0	0.0	0.0	0.0	0.0
72.5°	6679.3	1580.5	68.6	28.4	14.2	4.7	0.0	0.0	0.0	0.0	0.0
75°	2524.6	553.7	47.3	18.9	9.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	785.5	210.6	28.4	14.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	265.0	80.4	18.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	163.3	33.1	11.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	101.7	14.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	4.7	2.4	0.0	0.0	0.0	0.0	0.0	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)