

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: P456953

Luminaire Tested: **GALN-SA8B-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34248 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

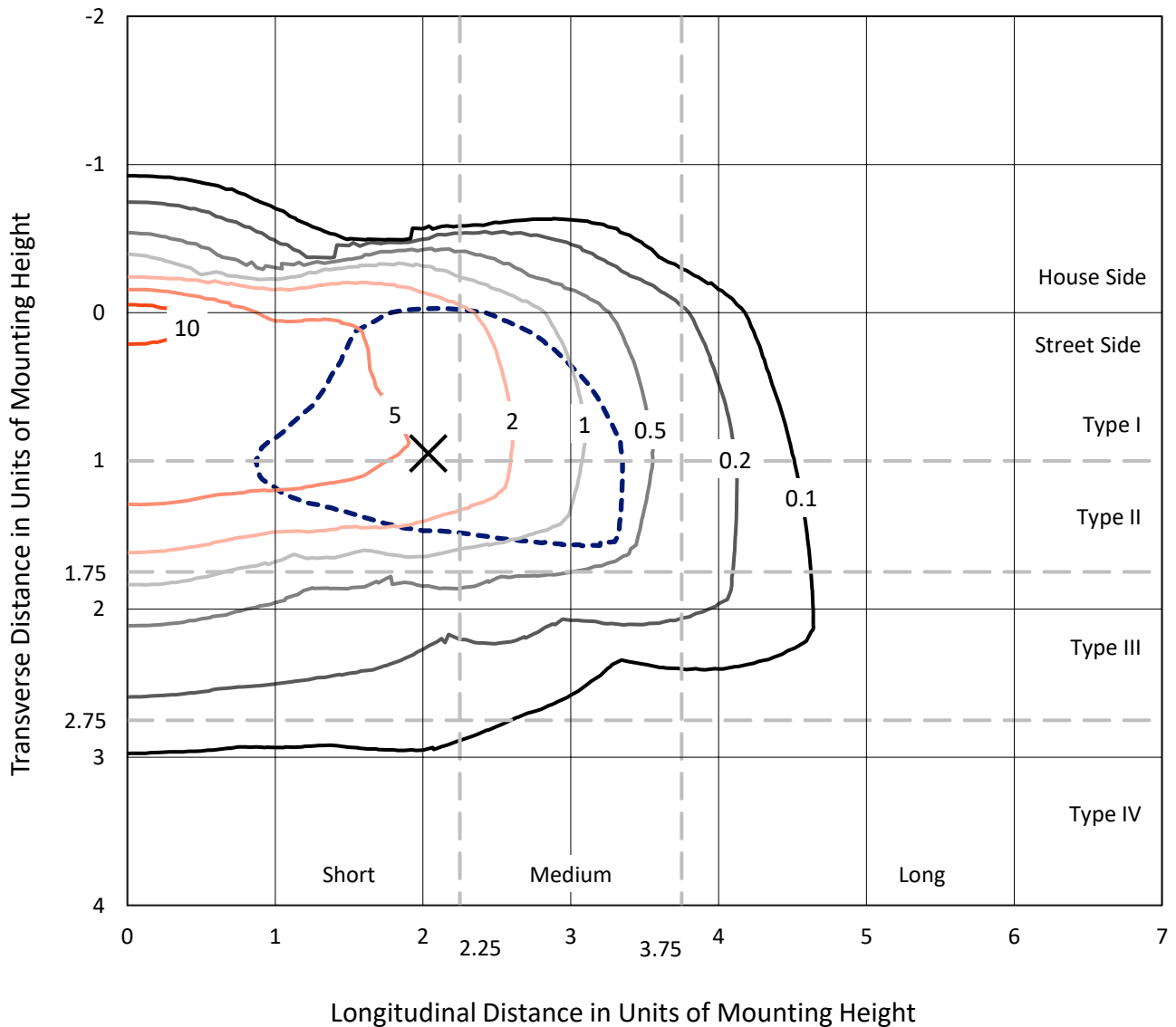
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

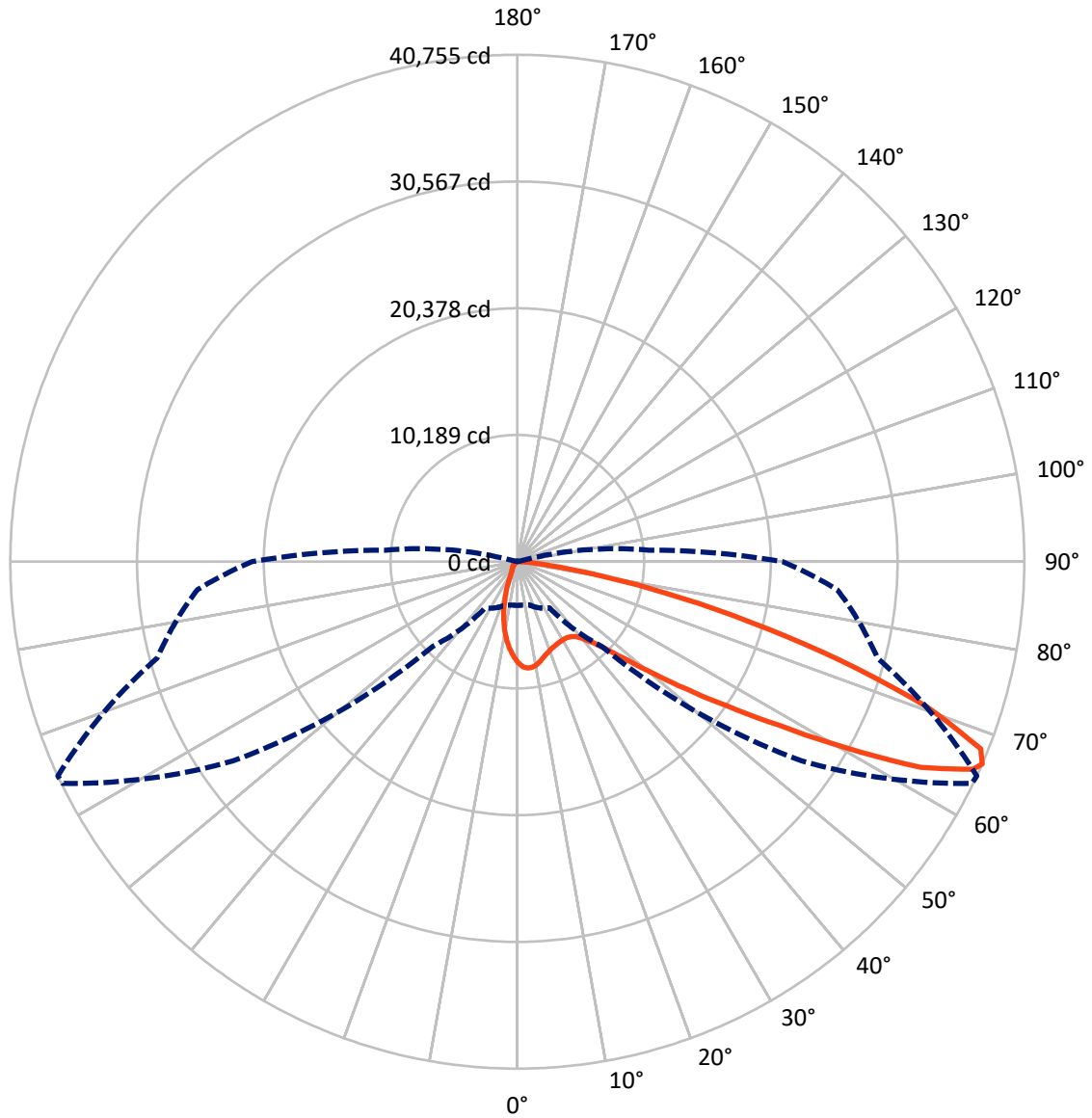
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3541.7	0.0	3541.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30706.3	0.0	30706.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	34248.0	0.0	34248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.2	1.9
10°-20°	1447.2	4.2
20°-30°	2073.1	6.1
30°-40°	3028.0	8.8
40°-50°	5077.4	14.8
50°-60°	8473.4	24.7
60°-70°	8994.3	26.3
70°-80°	4073.5	11.9
80°-90°	416.8	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°	34248.0	100.0
0°-180°	34248.0	100.0

Coefficient of Utilization



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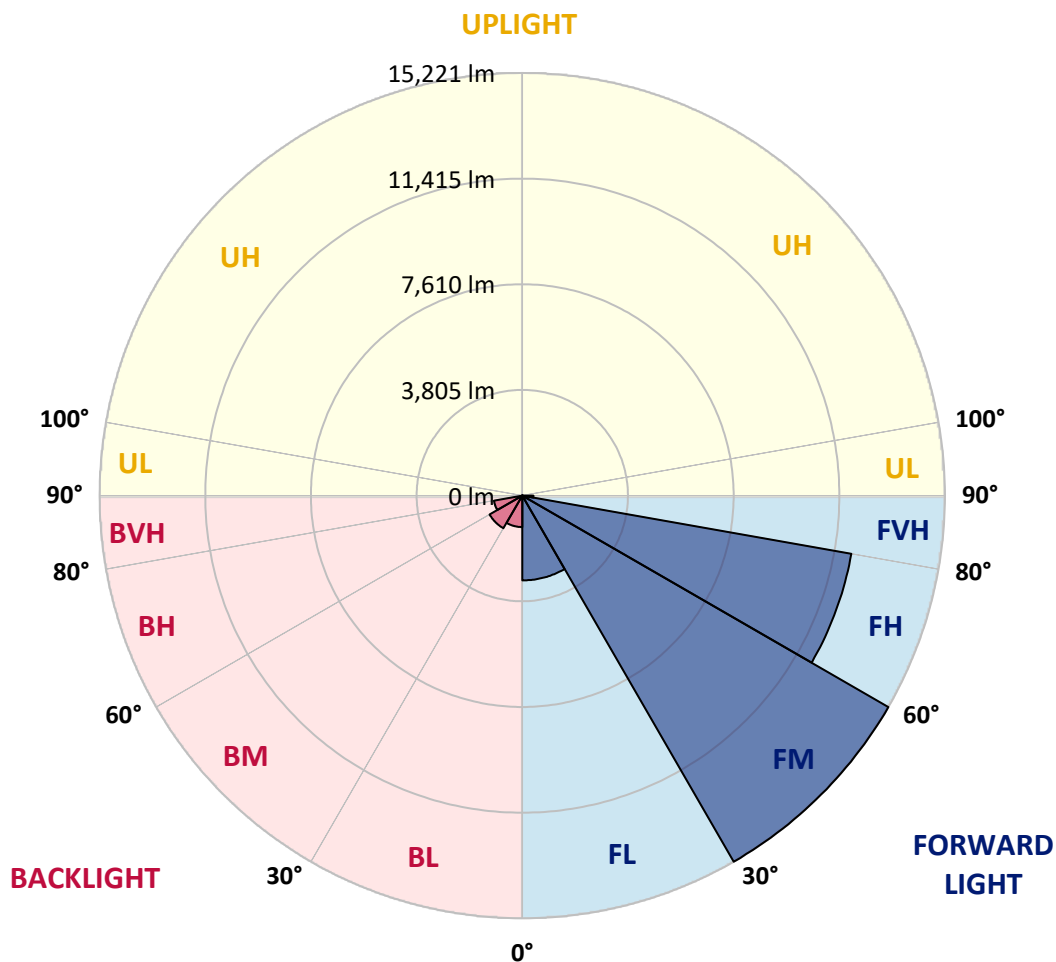
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3051.6	8.9			
FM	(30°-60°)	15220.6	44.4			
FH	(60°-80°)	12030.5	35.1			G5
FVH	(80°-90°)	403.5	1.2			G3/500
BL	(0°-30°)	1133.0	3.3	B3/2500		
BM	(30°-60°)	1358.3	4.0	B2/2500		
BH	(60°-80°)	1037.2	3.0	B3/2500		G3/2500
BVH	(80°-90°)	13.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5
2.5°	8558.6	8567.9	8579.5	8595.7	8607.2	8572.5	8524.0	8468.4	8456.9	8338.9	8195.5
5°	8100.6	8114.5	8216.3	8271.8	8396.7	8510.1	8581.8	8591.0	8586.4	8475.4	8246.4
7.5°	7448.3	7487.7	7587.1	7684.3	7917.9	8133.0	8387.5	8565.6	8577.2	8547.1	8262.6
10°	6918.6	6944.1	6995.0	7187.0	7381.3	7709.7	8065.9	8401.4	8429.1	8549.4	8248.7
12.5°	6504.6	6541.6	6604.0	6752.1	6985.7	7295.7	7700.5	8151.5	8209.4	8505.4	8209.4
15°	6215.4	6233.9	6296.4	6442.1	6668.8	6955.6	7365.1	7890.1	7941.0	8447.6	8202.4
17.5°	6079.0	6099.8	6143.7	6259.4	6446.7	6712.8	7112.9	7679.7	7744.4	8410.6	8227.9
20°	6116.0	6134.5	6136.8	6196.9	6324.1	6548.5	6927.9	7483.0	7566.3	8387.5	8269.5
22.5°	6326.5	6328.8	6301.0	6273.3	6317.2	6479.1	6814.5	7358.1	7443.7	8382.8	8318.1
25°	6641.0	6648.0	6601.7	6504.6	6416.7	6499.9	6789.1	7277.2	7353.5	8371.3	8348.2
27.5°	7075.9	7073.6	7059.7	6897.8	6648.0	6592.5	6809.9	7233.2	7298.0	8338.9	8359.7
30°	7684.3	7665.8	7635.7	7453.0	7071.3	6816.8	6897.8	7205.5	7265.6	8292.6	8329.6
32.5°	8283.4	8352.8	8348.2	8174.7	7698.2	7217.0	7080.5	7242.5	7286.4	8262.6	8285.7
35°	8982.0	8979.6	9157.8	9093.0	8535.5	7728.2	7392.8	7365.1	7399.8	8283.4	8264.9
37.5°	9629.6	9689.8	9967.4	10034.4	9525.5	8449.9	7834.6	7628.8	7640.3	8424.5	8315.8
40°	10436.9	10552.6	10966.6	11191.0	10742.3	9520.9	8486.9	8112.2	8114.5	8771.5	8507.8
42.5°	11477.8	11660.6	12046.9	12421.6	12181.0	10788.5	9465.4	8877.9	8873.2	9382.1	8947.3
45°	12743.1	12870.4	13309.9	13904.3	13751.7	12558.1	10890.3	10064.5	10004.4	10383.7	9726.8
47.5°	13834.9	14008.4	14454.9	15132.6	15826.6	14718.6	12592.8	11695.3	11656.0	11977.5	11063.8
50°	14311.4	14464.1	14933.7	15884.4	17566.0	17554.5	15128.0	14075.5	14008.4	14181.9	13131.7
52.5°	13788.7	13932.1	14406.3	15590.6	18384.9	21010.3	18801.3	17061.8	16980.8	16758.8	15602.2
55°	11998.3	12116.3	12817.2	14177.3	18070.3	23314.2	23862.4	20751.3	20436.7	19573.9	18398.8
57.5°	9553.3	9493.2	9928.0	11507.9	16224.4	24086.8	29057.8	25347.5	24785.4	22007.3	20765.1
60°	6620.2	6805.3	6981.1	8022.0	12199.5	22747.5	32289.2	31125.7	30385.5	24401.4	23032.0
62.5°	4866.9	4989.5	5105.1	5586.3	7670.4	18162.8	32860.6	37061.3	36404.3	26943.6	25194.8
65°	3849.1	3858.3	3904.6	4378.8	5054.2	11810.9	30114.9	40408.4	40239.5	29390.9	26071.5
66°	3506.7	3509.0	3580.8	4089.6	4536.1	9618.1	27915.1	40662.8	40755.4	29978.4	25814.7
67.5°	3064.9	3055.7	3159.8	3675.6	4131.3	6934.8	23978.1	39631.2	40179.4	30429.5	24891.8
70°	2375.6	2364.0	2491.3	3083.4	3805.1	4626.3	15937.6	34028.7	34912.3	29506.5	22023.5
72.5°	1582.2	1591.4	1808.9	2433.4	3631.6	4073.5	9588.0	25886.4	27135.5	24366.7	17325.5
75°	922.9	939.1	1186.6	1808.9	3152.8	3883.8	5426.6	18458.9	19257.0	16825.8	10793.2
77.5°	483.4	490.4	663.9	1193.6	2417.2	3606.2	3615.5	11792.4	12167.2	8177.0	4272.4
80°	256.8	249.8	356.2	719.4	1663.2	3166.7	2933.1	6243.2	6490.7	2428.8	1080.2
82.5°	97.2	106.4	189.7	471.9	983.1	2273.8	2526.0	2759.6	2674.0	534.3	453.4
85°	18.5	23.1	81.0	279.9	495.0	950.7	1862.1	1353.2	1253.7	201.2	261.4
87.5°	2.3	4.6	23.1	67.1	71.7	321.5	550.5	374.7	323.8	74.0	108.7
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°	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5	8121.5
2.5°	8126.1	8063.6	7855.5	7649.6	7439.1	7249.4	7119.9	6909.4	6856.2	6779.8	6735.9
5°	8109.9	7964.2	7564.0	7126.8	6719.7	6280.2	5944.8	5621.0	5447.5	5359.6	5327.2
7.5°	8063.6	7832.3	7207.8	6523.1	5870.8	5213.8	4642.5	4207.6	3927.7	3735.7	3606.2
10°	7971.1	7651.9	6793.7	5852.3	4866.9	3999.4	3275.4	2724.9	2299.3	2165.1	2169.7
12.5°	7876.3	7450.7	6331.1	5107.4	3886.1	2792.0	2024.0	1589.1	1385.6	1318.5	1304.6
15°	7788.4	7258.7	5877.7	4385.7	2893.7	1808.9	1304.6	1151.9	1096.4	1084.9	1082.6
17.5°	7742.1	7080.5	5394.3	3559.9	2019.4	1228.3	1045.5	1003.9	987.7	976.1	971.5
20°	7702.8	6925.6	4931.6	2787.3	1380.9	1006.2	936.8	897.5	869.7	858.2	851.2
22.5°	7675.0	6766.0	4452.8	2158.2	1057.1	892.9	830.4	779.5	740.2	726.3	717.1
25°	7633.4	6590.2	3969.4	1577.6	890.6	793.4	721.7	661.6	610.7	585.2	580.6
27.5°	7573.2	6391.2	3439.7	1168.1	795.7	705.5	617.6	543.6	492.7	464.9	467.3
30°	7476.1	6183.0	2909.9	927.6	719.4	615.3	520.5	448.8	400.2	379.4	377.0
32.5°	7360.4	5930.9	2424.2	795.7	650.0	534.3	434.9	372.4	335.4	319.2	316.9
35°	7251.7	5676.5	1929.2	714.8	578.3	460.3	365.5	312.3	284.5	270.6	273.0
37.5°	7191.6	5449.8	1503.5	650.0	520.5	395.5	314.6	268.3	242.9	231.3	229.0
40°	7230.9	5264.7	1195.9	592.2	455.7	340.0	270.6	231.3	205.9	189.7	189.7
42.5°	7416.0	5183.8	964.6	536.7	395.5	293.8	235.9	198.9	171.2	155.0	157.3
45°	7980.4	5269.4	807.3	485.8	340.0	254.4	203.6	164.2	138.8	127.2	124.9
47.5°	8917.2	5590.9	698.6	432.6	291.5	217.4	171.2	136.5	111.0	101.8	99.5
50°	10554.9	6254.8	617.6	379.4	247.5	185.1	141.1	108.7	87.9	78.6	78.6
52.5°	12807.9	7702.8	559.8	319.2	208.2	157.3	115.7	87.9	69.4	62.5	60.1
55°	15162.7	9229.5	529.7	268.3	173.5	129.5	92.5	69.4	53.2	46.3	43.9
57.5°	17427.3	10427.7	495.0	217.4	138.8	99.5	71.7	53.2	37.0	32.4	30.1
60°	19599.3	11396.9	421.0	173.5	108.7	71.7	53.2	37.0	25.4	20.8	20.8
62.5°	21542.4	11961.3	330.8	138.8	83.3	50.9	34.7	27.8	18.5	13.9	13.9
65°	21769.0	11228.0	249.8	106.4	60.1	32.4	20.8	20.8	13.9	9.3	9.3
66°	21313.3	10605.8	219.7	97.2	53.2	27.8	18.5	16.2	11.6	6.9	6.9
67.5°	20295.6	9544.1	189.7	83.3	43.9	20.8	13.9	13.9	9.3	4.6	4.6
70°	17536.0	7795.3	150.4	62.5	32.4	16.2	9.3	9.3	6.9	4.6	4.6
72.5°	13365.4	5819.9	122.6	46.3	23.1	11.6	6.9	6.9	6.9	4.6	4.6
75°	8061.3	3134.3	94.8	34.7	20.8	9.3	4.6	6.9	9.3	6.9	4.6
77.5°	2970.1	1066.4	74.0	27.8	16.2	9.3	4.6	4.6	9.3	6.9	6.9
80°	728.6	277.6	53.2	23.1	16.2	9.3	4.6	4.6	9.3	9.3	9.3
82.5°	337.7	118.0	37.0	20.8	16.2	9.3	4.6	4.6	6.9	9.3	9.3
85°	194.3	55.5	30.1	23.1	16.2	9.3	4.6	4.6	6.9	9.3	9.3
87.5°	78.6	27.8	27.8	23.1	18.5	11.6	4.6	4.6	4.6	6.9	6.9
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)