

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: P456736

Luminaire Tested: **GALN-SA8A-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24691 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

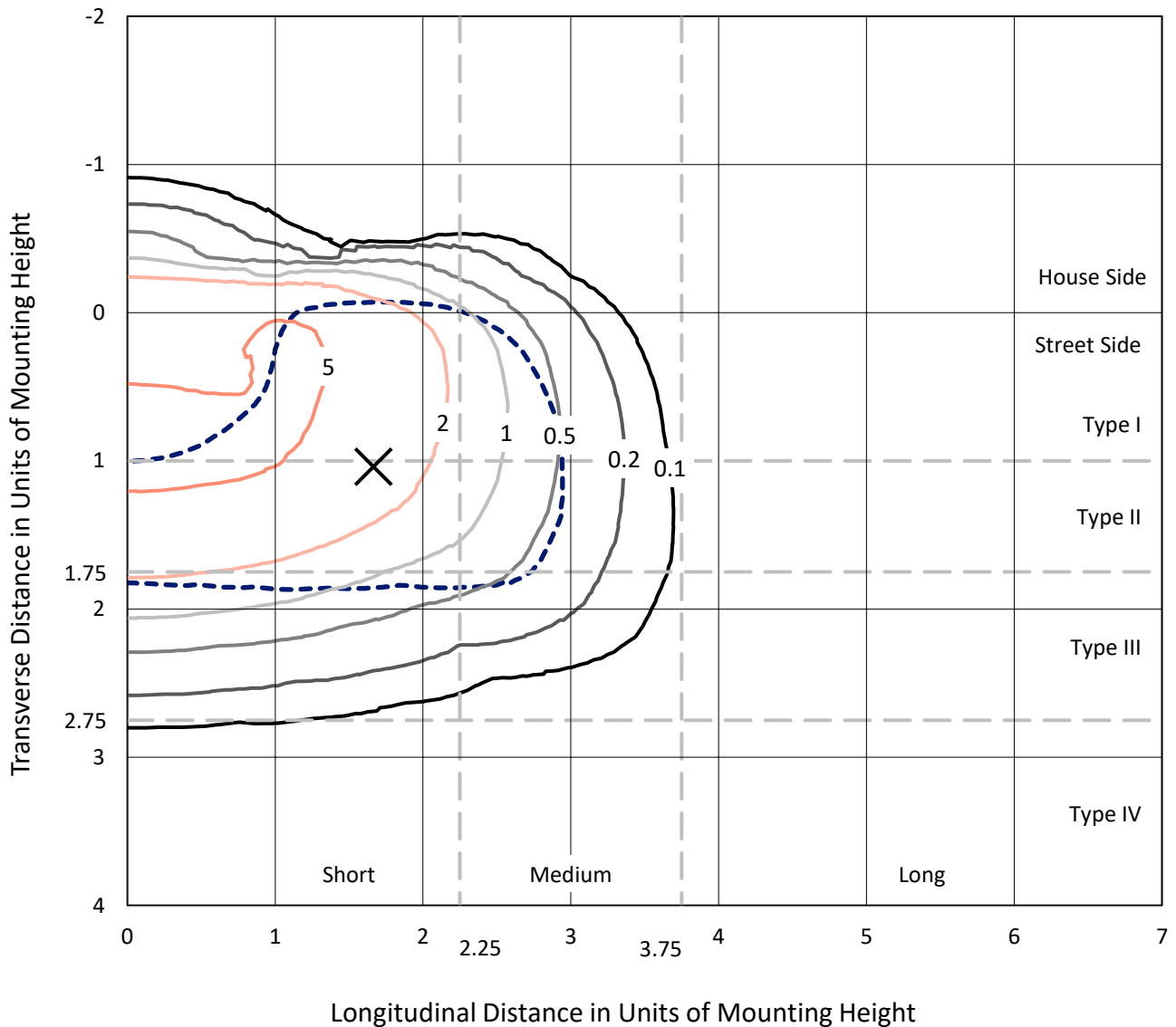
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456736
 CATALOG NUMBER: GALN-SA8A-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

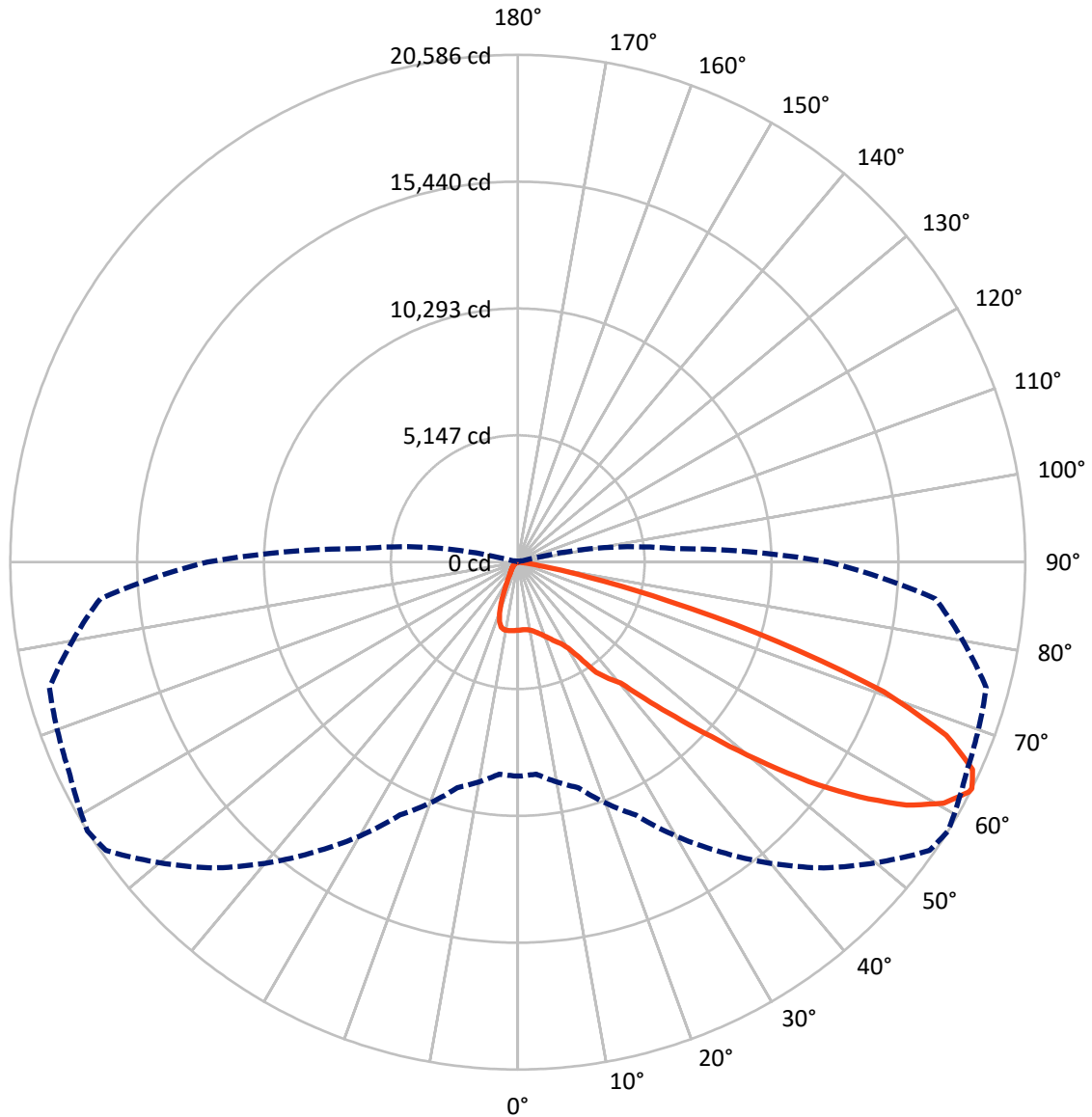
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

REPORT NUMBER: P456736
CATALOG NUMBER: GALN-SA8A-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2556.6	0.0	2556.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	22134.4	0.0	22134.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	24691.0	0.0	24691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	1.0
10°-20°	704.8	2.9
20°-30°	1223.2	5.0
30°-40°	2247.8	9.1
40°-50°	4231.4	17.1
50°-60°	7237.5	29.3
60°-70°	6929.9	28.1
70°-80°	1767.2	7.2
80°-90°	90.4	0.4
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°	24691.0	100.0
0°-180°	24691.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456736

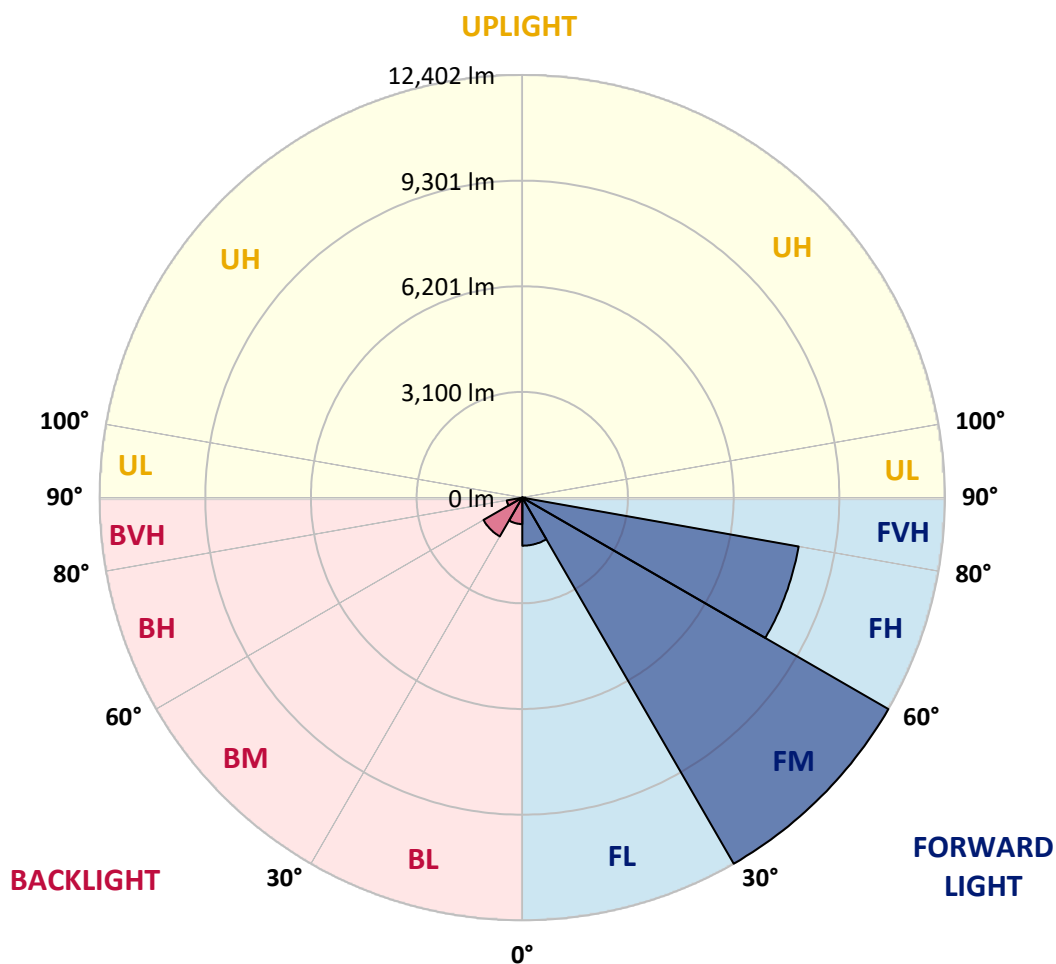
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1411.4	5.7			
FM	(30°-60°)	12401.8	50.2			
FH	(60°-80°)	8234.3	33.3			G4/12000
FVH	(80°-90°)	86.9	0.4			G1/100
BL	(0°-30°)	775.3	3.1	B2/1000		
BM	(30°-60°)	1315.0	5.3	B2/2500		
BH	(60°-80°)	462.8	1.9	B1/500		G1/500
BVH	(80°-90°)	3.5	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-G4

Type III Short





REPORT NUMBER: P456736

CATALOG NUMBER: GALN-SA8A-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3
2.5°	2695.5	2704.8	2714.1	2717.8	2730.8	2743.8	2753.1	2751.2	2766.1	2773.5	2773.5
5°	2587.7	2587.7	2611.8	2634.1	2671.3	2708.5	2743.8	2751.2	2779.1	2805.1	2814.4
7.5°	2496.6	2502.1	2520.7	2561.6	2611.8	2676.9	2747.5	2764.3	2812.6	2870.2	2894.4
10°	2453.8	2457.5	2481.7	2524.4	2587.7	2676.9	2775.4	2807.0	2881.4	2972.5	3005.9
12.5°	2444.5	2450.1	2474.3	2522.6	2595.1	2702.9	2836.8	2870.2	2978.0	3095.1	3145.3
15°	2461.2	2465.0	2489.1	2541.2	2621.1	2749.4	2918.5	2965.0	3093.3	3229.0	3294.1
17.5°	2520.7	2517.0	2533.7	2576.5	2665.7	2807.0	3017.1	3072.8	3223.4	3409.3	3452.1
20°	2773.5	2749.4	2734.5	2697.3	2732.7	2888.8	3136.0	3217.8	3403.7	3593.3	3623.1
22.5°	3318.2	3264.3	3158.3	3013.4	2901.8	3000.3	3279.2	3374.0	3613.8	3799.7	3799.7
25°	4011.6	3942.8	3836.9	3520.8	3247.6	3184.4	3440.9	3559.9	3842.4	4030.2	3968.9
27.5°	4879.7	4825.8	4619.5	4251.4	3833.1	3506.0	3628.7	3738.3	4045.1	4271.9	4143.6
30°	5586.1	5560.1	5390.9	5061.9	4600.9	4123.1	3978.1	4050.6	4314.6	4576.7	4444.7
32.5°	6182.9	6182.9	6010.0	5703.2	5272.0	4848.1	4571.1	4623.2	4876.0	5179.0	4933.6
35°	6839.1	6816.8	6677.3	6385.5	5902.2	5528.5	5415.1	5485.8	5714.4	5939.3	5335.2
37.5°	7528.7	7521.3	7376.3	7093.7	6699.6	6229.3	5963.5	5982.1	6099.2	6236.8	5805.5
40°	8277.9	8289.0	8099.4	7924.7	7552.9	7071.4	6562.1	6445.0	6554.6	6943.2	6673.6
42.5°	9162.7	9136.7	9054.9	8817.0	8517.7	8229.6	7618.0	7575.2	7671.9	8088.3	7796.4
45°	10190.7	10227.9	10086.6	9954.7	9753.9	9514.1	9002.9	8928.5	9034.5	9681.4	9266.8
47.5°	11220.6	11185.3	11276.4	11252.2	11360.0	11181.6	10729.8	10577.4	10832.1	11445.5	10835.8
50°	12005.1	12044.1	12233.7	12510.7	12973.6	13074.0	12640.8	12588.8	12702.2	13096.3	12239.3
52.5°	12514.4	12644.6	12942.0	13654.0	14488.6	15137.4	14808.4	14780.5	14734.0	14840.0	13581.5
55°	12847.2	12979.2	13367.7	14416.1	15853.1	16907.1	16923.8	16804.9	16498.1	16421.9	14836.2
57.5°	12642.7	12668.7	13222.7	14624.3	16609.7	18169.3	18715.9	18596.9	18029.9	17741.8	15944.2
60°	11363.7	11417.6	12189.1	13836.1	16280.7	18582.0	19903.7	19849.8	19228.9	18903.6	16806.7
62.5°	9097.7	9253.8	10047.6	11884.2	14750.7	17886.8	20385.2	20537.6	20054.3	19606.3	17078.1
63°	8681.3	8631.1	9469.5	11315.4	14345.5	17542.9	20392.6	20586.0	20091.5	19673.2	17003.8
65°	6426.4	6577.0	7121.6	8922.9	11938.2	15942.3	19933.5	20275.5	19953.9	19377.7	16180.3
67.5°	3608.2	3600.8	4203.1	5838.9	8356.0	12505.1	18024.3	18747.5	18680.6	17388.6	13412.3
70°	1766.0	1793.9	2041.1	3026.4	4846.3	8627.4	14977.5	15758.3	15782.5	13657.7	9274.3
72.5°	799.3	812.4	989.0	1474.1	2491.0	4593.5	10320.9	11066.3	10928.7	8703.6	5121.4
75°	422.0	449.9	544.7	741.7	1200.9	1894.3	5614.0	6335.3	6047.2	3976.3	1885.0
77.5°	312.3	321.6	369.9	472.2	643.2	738.0	2422.2	2881.4	2699.2	1438.8	624.6
80°	228.7	236.1	275.1	334.6	405.3	375.5	912.7	1046.6	938.8	488.9	191.5
82.5°	139.4	141.3	200.8	249.1	254.7	210.1	301.1	323.5	338.3	275.1	104.1
85°	50.2	63.2	135.7	180.3	150.6	106.0	126.4	139.4	152.4	174.7	61.3
87.5°	5.6	7.4	65.1	87.4	42.8	39.0	46.5	52.1	55.8	65.1	29.7
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°	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3	2764.3
2.5°	2781.0	2788.4	2782.8	2773.5	2771.7	2766.1	2755.0	2755.0	2755.0	2758.7	2755.0
5°	2821.9	2827.5	2814.4	2795.9	2775.4	2749.4	2721.5	2704.8	2702.9	2699.2	2689.9
7.5°	2900.0	2907.4	2877.6	2833.0	2777.3	2714.1	2654.6	2598.8	2572.8	2552.3	2552.3
10°	3013.4	3020.8	2961.3	2881.4	2769.8	2641.6	2500.3	2372.0	2271.6	2225.2	2214.0
12.5°	3149.1	3152.8	3054.2	2914.8	2730.8	2483.6	2182.4	1901.7	1706.5	1617.3	1608.0
15°	3297.8	3271.7	3141.6	2927.8	2619.3	2158.2	1637.7	1293.8	1091.2	1031.7	1054.0
17.5°	3448.3	3400.0	3208.5	2907.4	2368.3	1637.7	1100.5	883.0	819.8	803.1	803.1
20°	3589.6	3522.7	3256.9	2818.2	1933.3	1128.4	816.1	764.0	752.9	741.7	743.6
22.5°	3730.9	3628.7	3299.6	2619.3	1440.7	806.8	730.6	713.8	699.0	684.1	682.2
25°	3868.5	3727.2	3316.4	2251.2	981.5	693.4	667.4	645.1	615.3	598.6	594.9
27.5°	4011.6	3846.2	3305.2	1786.4	715.7	620.9	594.9	563.3	527.9	498.2	498.2
30°	4286.7	4073.0	3266.2	1284.5	602.3	546.5	513.1	462.9	423.8	394.1	392.2
32.5°	4662.2	4368.5	3132.3	903.4	535.4	481.5	431.3	375.5	334.6	312.3	312.3
35°	4996.8	4666.0	2881.4	665.5	481.5	418.3	356.9	303.0	271.4	256.5	251.0
37.5°	5506.2	5100.9	2535.6	541.0	429.4	362.5	299.3	249.1	223.1	211.9	211.9
40°	6270.2	5632.6	2111.8	474.0	379.2	308.6	249.1	210.1	189.6	176.6	176.6
42.5°	7218.3	6283.2	1682.3	425.7	332.8	265.8	208.2	178.5	159.9	150.6	148.7
45°	8411.7	6969.2	1295.7	381.1	295.6	226.8	176.6	150.6	132.0	126.4	128.3
47.5°	9657.2	7573.3	1003.8	342.0	256.5	191.5	150.6	130.1	117.1	109.7	109.7
50°	10720.5	7989.8	762.2	297.4	226.8	161.7	132.0	117.1	106.0	102.2	100.4
52.5°	11609.1	8110.6	583.7	258.4	198.9	139.4	117.1	106.0	96.7	91.1	91.1
55°	12365.7	8004.6	457.3	217.5	167.3	120.8	104.1	94.8	83.7	78.1	76.2
57.5°	12808.1	7664.4	349.5	180.3	135.7	100.4	91.1	79.9	66.9	57.6	57.6
60°	13031.2	7170.0	267.7	148.7	104.1	79.9	74.4	59.5	46.5	39.0	37.2
62.5°	12763.5	6513.7	202.6	117.1	78.1	59.5	50.2	42.8	29.7	22.3	22.3
63°	12598.1	6324.1	195.2	111.5	72.5	55.8	46.5	39.0	26.0	20.4	18.6
65°	11484.6	5496.9	159.9	89.2	57.6	39.0	31.6	27.9	18.6	9.3	7.4
67.5°	9120.0	4204.9	126.4	66.9	40.9	27.9	18.6	16.7	5.6	0.0	0.0
70°	6166.1	2715.9	98.5	48.3	27.9	16.7	9.3	7.4	1.9	0.0	0.0
72.5°	3216.0	1392.4	76.2	35.3	16.7	11.2	5.6	1.9	0.0	0.0	0.0
75°	1137.7	474.0	55.8	22.3	11.2	5.6	1.9	0.0	0.0	0.0	0.0
77.5°	343.9	176.6	35.3	16.7	7.4	3.7	0.0	0.0	0.0	0.0	0.0
80°	120.8	65.1	20.4	11.2	5.6	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	59.5	31.6	13.0	9.3	5.6	1.9	0.0	0.0	0.0	0.0	0.0
85°	33.5	20.4	11.2	9.3	5.6	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	24.2	14.9	11.2	9.3	7.4	3.7	1.9	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)