

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: P456993

Luminaire Tested: **GALN-SA8B-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456993
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-SA8B-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA 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: 34349 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

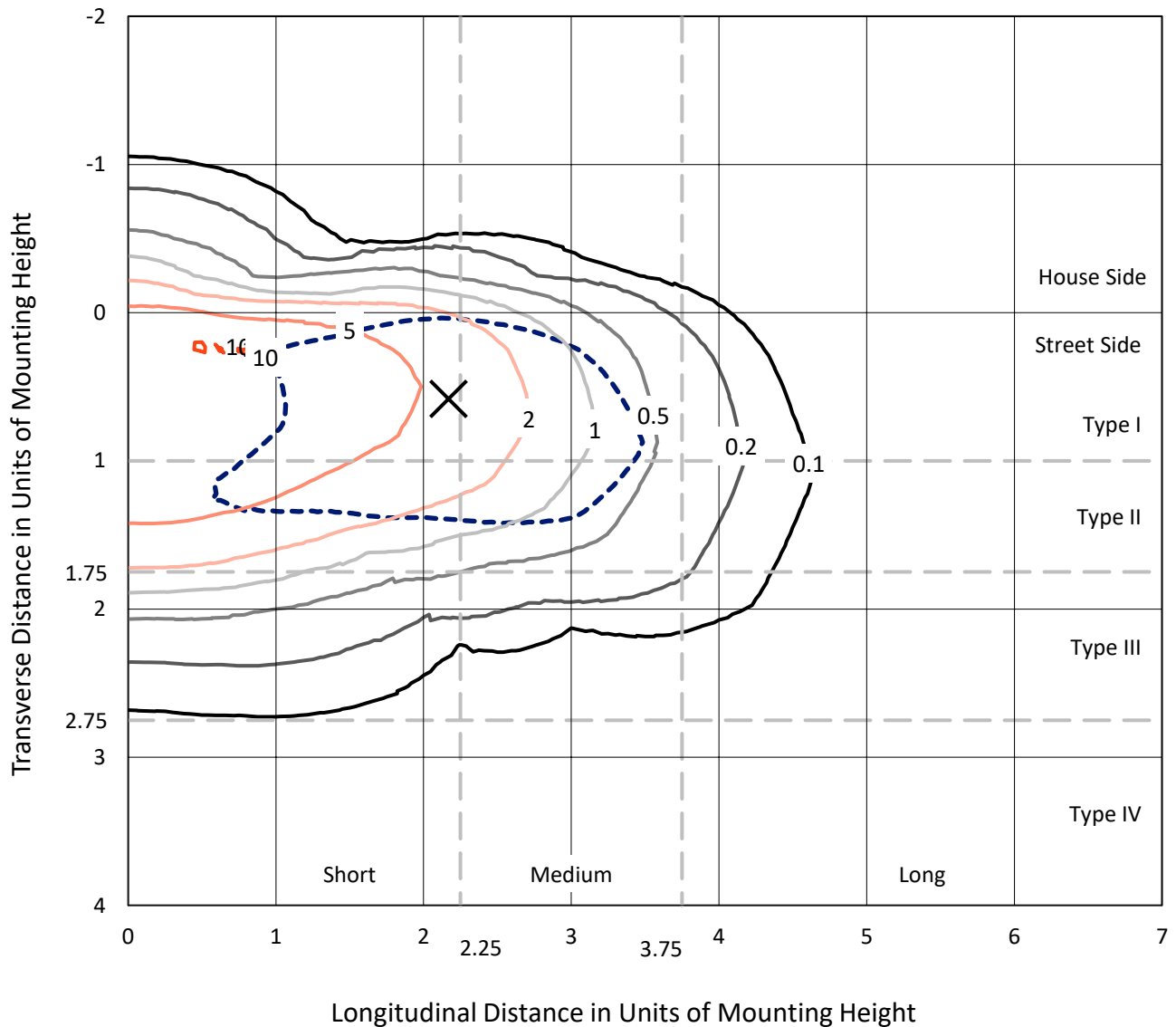
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

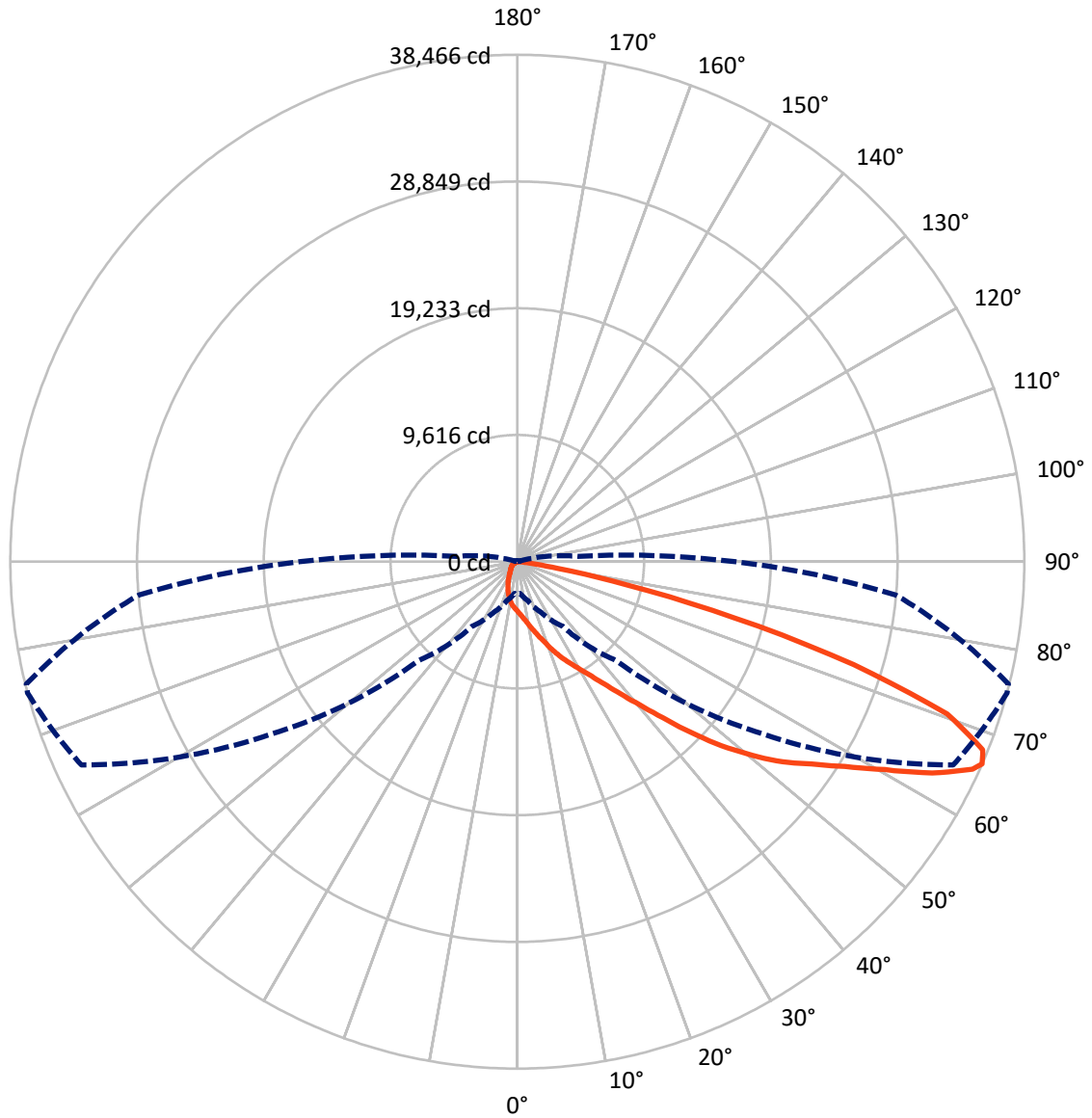
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	2120.6	0.0	2120.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	32228.4	0.0	32228.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	34349.0	0.0	34349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.3	1.1
10°-20°	1066.3	3.1
20°-30°	1841.3	5.4
30°-40°	3321.3	9.7
40°-50°	5999.9	17.5
50°-60°	9354.0	27.2
60°-70°	8885.9	25.9
70°-80°	3330.2	9.7
80°-90°	187.9	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°	34349.0	100.0
0°-180°	34349.0	100.0

Coefficient of Utilization



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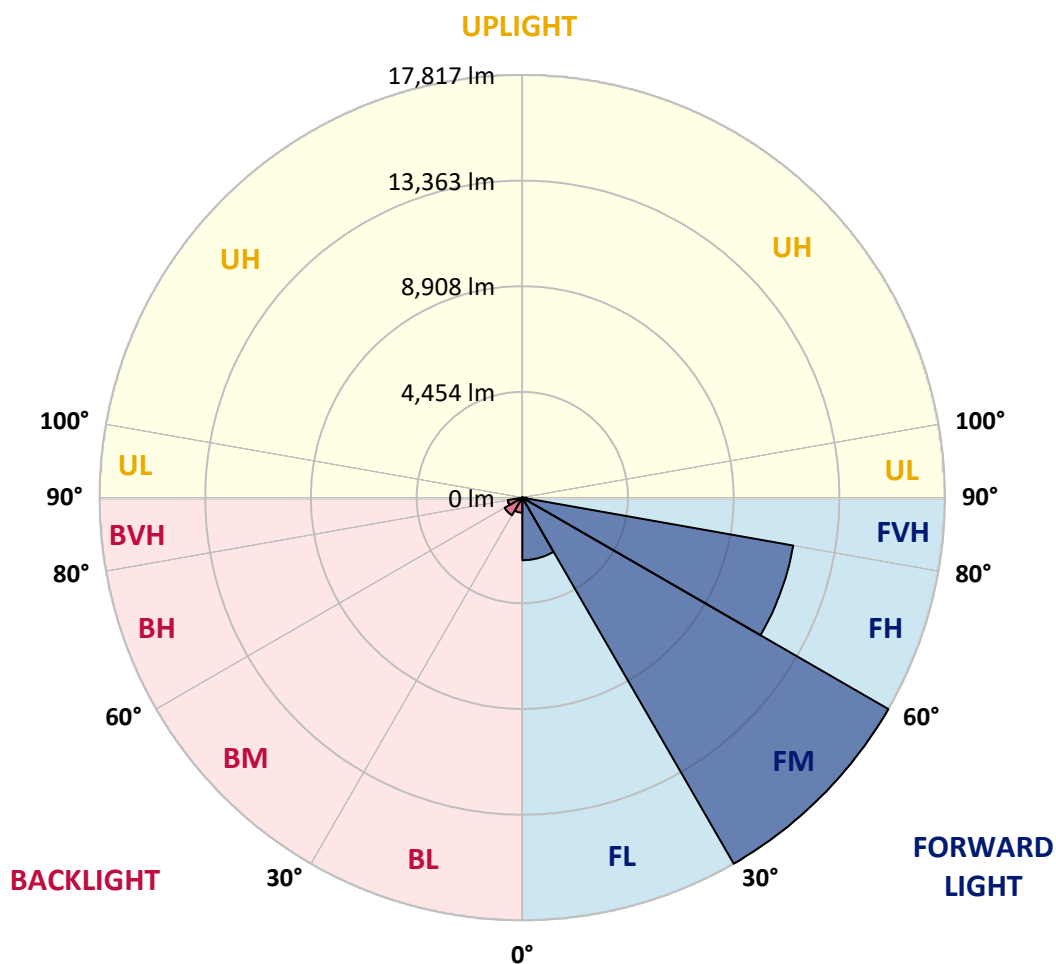
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2636.6	7.7			
FM (30°-60°)	17816.8	51.9			
FH (60°-80°)	11596.9	33.8			G4/12000
FVH (80°-90°)	178.2	0.5			G2/225
BL (0°-30°)	633.3	1.8	B2/1000		
BM (30°-60°)	858.3	2.5	B1/1000		
BH (60°-80°)	619.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
2.5°	4487.9	4432.0	4449.8	4424.4	4366.0	4279.6	4203.4	4094.2	3985.0	3967.2	3845.3
5°	5079.7	5064.4	5044.1	4970.4	4929.8	4797.7	4640.3	4452.3	4226.3	4185.6	3964.7
7.5°	5483.5	5475.9	5486.0	5447.9	5412.4	5293.0	5125.4	4868.8	4518.4	4495.5	4127.2
10°	5615.6	5635.9	5674.0	5734.9	5790.8	5752.7	5625.7	5305.7	4896.8	4830.7	4312.6
12.5°	5539.4	5562.2	5653.7	5816.2	5996.5	6100.7	6049.9	5816.2	5298.1	5244.7	4520.9
15°	5343.8	5371.7	5501.3	5752.7	6075.3	6369.9	6496.9	6329.2	5765.4	5679.1	4772.3
17.5°	5054.3	5094.9	5280.3	5613.0	6054.9	6562.9	6921.0	6865.1	6263.2	6181.9	5046.6
20°	4835.8	4866.3	5023.8	5404.7	5968.6	6669.6	7324.9	7482.3	6877.8	6738.2	5369.2
22.5°	4980.6	4990.8	5044.1	5272.7	5813.7	6697.5	7680.4	8124.9	7530.6	7406.1	5704.4
25°	5689.2	5587.6	5534.3	5483.5	5780.6	6672.1	8003.0	8795.4	8180.8	8048.7	6037.2
27.5°	6806.7	6761.0	6491.8	6131.1	6062.6	6705.1	8216.3	9430.4	8792.9	8650.6	6362.3
30°	8023.3	7944.6	7779.5	7251.2	6720.4	6938.8	8371.3	10047.6	9516.7	9328.8	6659.4
32.5°	9140.8	9191.6	8945.3	8401.7	7787.1	7436.6	8571.9	10720.6	10347.3	10113.6	7004.8
35°	10443.8	10545.4	10166.9	9646.3	8927.5	8335.7	8963.0	11480.0	11401.3	11106.7	7538.2
37.5°	11767.0	11828.0	11596.8	10865.4	10217.7	9478.6	9699.6	12417.2	12699.1	12447.7	8175.7
40°	12879.5	12963.3	12793.1	12142.9	11452.1	10801.9	10768.9	13438.2	14243.3	13984.3	9125.6
42.5°	13730.3	13793.8	13798.9	13339.2	12716.9	12422.3	12132.7	14741.2	16178.7	15879.0	10227.9
45°	14804.6	14896.1	14842.7	14530.3	14065.6	14012.2	13862.4	16315.8	18495.0	18116.6	11657.8
47.5°	16465.7	16526.6	16394.6	16026.3	15553.9	15637.7	15548.8	18081.0	20857.1	20532.0	13138.5
50°	17618.8	17720.4	17908.3	18055.6	17712.7	17402.9	17138.7	19729.4	23099.7	22807.6	14652.3
52.5°	17606.1	17773.7	18368.0	19109.7	19858.9	19764.9	19005.5	21550.4	25240.8	24880.1	16074.6
55°	16420.0	16745.1	17618.8	18934.4	21009.4	22043.2	21697.7	23658.5	27089.8	26846.0	17722.9
57.5°	13971.6	14169.7	15383.7	17222.6	20366.9	23115.0	24816.6	26515.8	29307.1	29192.8	20283.1
60°	9397.4	9486.3	11048.2	13321.4	17339.4	22045.7	27102.5	29972.5	32037.4	31981.5	23272.4
62.5°	5384.4	5422.5	6555.3	8472.9	12338.5	18683.0	27295.5	34236.9	35311.2	35341.7	26731.7
65°	2897.9	2918.3	3832.6	4973.0	7507.7	13316.3	24544.9	36573.5	37957.7	38016.1	28875.3
66°	2501.7	2405.2	3050.3	4239.0	5973.7	10598.7	22805.1	36489.7	38465.7	38402.2	28799.1
67.5°	1902.3	1988.7	2435.7	3258.6	4426.9	7535.7	18827.7	34866.7	38079.6	37881.5	27628.2
70°	1361.3	1396.9	1734.7	2323.9	3014.8	4134.8	12031.2	28959.1	34610.2	34343.5	24069.9
72.5°	878.8	916.9	1229.3	1681.4	2179.2	2257.9	6735.6	20923.1	26683.4	26645.3	18126.7
75°	627.3	662.9	812.7	1203.9	1638.2	1396.9	3243.4	14101.1	16963.5	16849.2	11213.3
77.5°	454.6	472.4	543.5	787.3	1170.9	1000.7	1503.6	7530.6	8444.9	8843.7	4955.2
80°	261.6	276.8	378.4	480.0	792.4	683.2	718.8	3022.4	3116.4	2966.5	1549.3
82.5°	129.5	147.3	226.0	327.6	495.3	459.7	330.2	909.3	960.1	934.7	391.1
85°	30.5	38.1	127.0	215.9	241.3	205.7	160.0	266.7	330.2	322.6	149.8
87.5°	2.5	5.1	45.7	38.1	40.6	68.6	55.9	68.6	106.7	99.1	53.3
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°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
2.5°	3789.4	3741.2	3601.5	3464.3	3350.0	3230.7	3121.4	3058.0	3032.6	3004.6	3017.3
5°	3842.8	3725.9	3444.0	3200.2	2961.4	2758.3	2595.7	2491.6	2440.8	2433.2	2420.5
7.5°	3913.9	3713.2	3276.4	2895.4	2583.0	2357.0	2171.6	2021.7	1976.0	1935.3	1902.3
10°	4000.2	3690.4	3068.1	2575.4	2242.7	1958.2	1714.4	1536.6	1445.2	1419.8	1437.5
12.5°	4091.7	3647.2	2849.7	2280.8	1897.3	1534.1	1308.0	1219.1	1193.7	1183.6	1186.1
15°	4183.1	3593.9	2621.1	1996.3	1511.2	1224.2	1120.1	1097.2	1087.0	1082.0	1076.9
17.5°	4266.9	3507.5	2364.6	1719.5	1224.2	1046.4	1008.3	988.0	967.7	960.1	947.4
20°	4366.0	3408.4	2133.5	1409.6	1036.2	947.4	901.6	863.5	833.1	812.7	810.2
22.5°	4459.9	3281.5	1892.2	1168.3	944.8	850.8	777.2	736.5	701.0	675.6	683.2
25°	4510.7	3126.5	1676.3	1018.5	861.0	754.3	673.1	622.3	584.2	571.5	568.9
27.5°	4510.7	2936.0	1465.5	932.1	784.8	668.0	584.2	535.9	510.5	492.7	495.3
30°	4475.2	2725.2	1269.9	866.1	718.8	591.8	513.0	469.9	449.5	436.9	434.3
32.5°	4447.2	2524.6	1102.3	802.6	650.2	525.7	457.2	424.2	403.8	391.1	391.1
35°	4490.4	2351.9	972.8	739.1	586.7	474.9	414.0	383.5	363.2	353.0	350.5
37.5°	4604.7	2194.4	873.7	670.5	528.3	431.8	383.5	348.0	327.6	314.9	309.9
40°	4886.6	2105.5	800.0	607.0	472.4	396.2	348.0	314.9	289.5	276.8	274.3
42.5°	5338.7	2108.1	728.9	548.6	429.2	365.7	317.5	279.4	251.4	238.7	236.2
45°	6019.4	2204.6	673.1	492.7	391.1	332.7	284.5	243.8	218.4	205.7	205.7
47.5°	6834.7	2392.5	624.8	444.5	355.6	302.2	251.4	210.8	185.4	175.2	175.2
50°	7718.5	2636.3	576.5	393.7	325.1	269.2	215.9	182.9	162.5	154.9	154.9
52.5°	8620.2	2931.0	528.3	353.0	292.1	233.7	185.4	162.5	144.8	139.7	137.2
55°	9803.7	3306.9	477.5	309.9	256.5	200.6	165.1	142.2	121.9	114.3	111.8
57.5°	11624.8	3873.2	421.6	271.8	210.8	167.6	142.2	119.4	96.5	83.8	81.3
60°	13821.7	4564.1	363.2	238.7	170.2	137.2	114.3	91.4	71.1	55.9	53.3
62.5°	15879.0	5003.5	307.3	200.6	134.6	104.1	81.3	68.6	50.8	35.6	33.0
65°	16788.3	4856.1	254.0	162.5	106.7	73.7	53.3	48.3	30.5	15.2	12.7
66°	16486.0	4637.7	233.7	147.3	96.5	63.5	45.7	40.6	22.9	7.6	7.6
67.5°	15594.5	4122.1	203.2	127.0	83.8	50.8	35.6	30.5	12.7	2.5	0.0
70°	13362.0	3334.8	160.0	94.0	61.0	35.6	20.3	15.2	7.6	0.0	0.0
72.5°	10263.4	2483.9	127.0	71.1	43.2	20.3	10.2	5.1	7.6	0.0	0.0
75°	6288.6	1419.8	99.1	53.3	27.9	12.7	7.6	0.0	7.6	2.5	0.0
77.5°	2791.3	637.5	66.0	35.6	20.3	10.2	5.1	0.0	5.1	2.5	0.0
80°	706.1	208.3	38.1	25.4	15.2	7.6	2.5	0.0	5.1	5.1	2.5
82.5°	193.0	76.2	27.9	20.3	12.7	7.6	2.5	0.0	5.1	5.1	5.1
85°	76.2	35.6	25.4	20.3	15.2	7.6	2.5	0.0	5.1	5.1	5.1
87.5°	35.6	25.4	25.4	22.9	17.8	7.6	2.5	0.0	5.1	2.5	5.1
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)