

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: P451427

Luminaire Tested: **GALN-SA2B-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9161 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

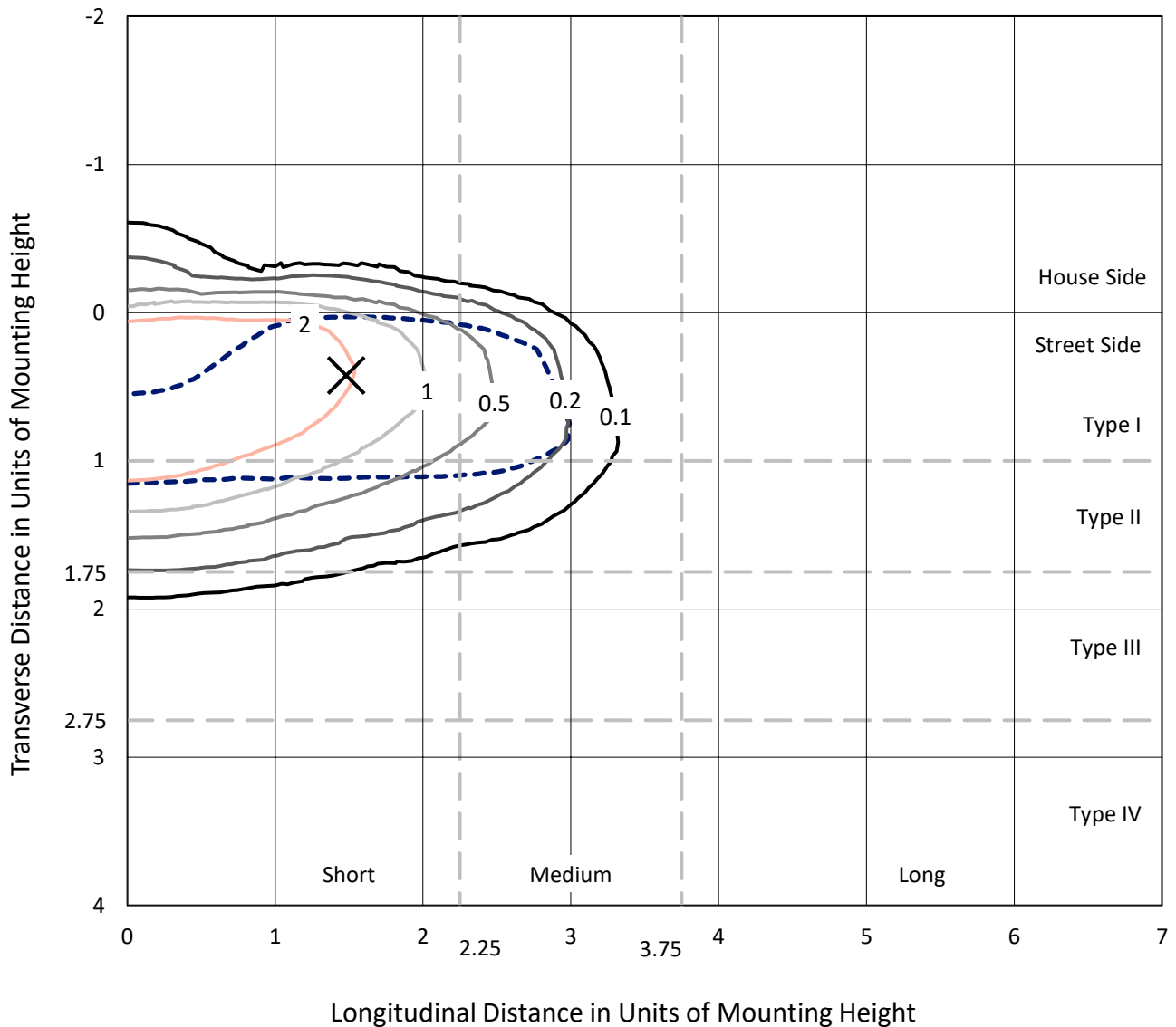
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

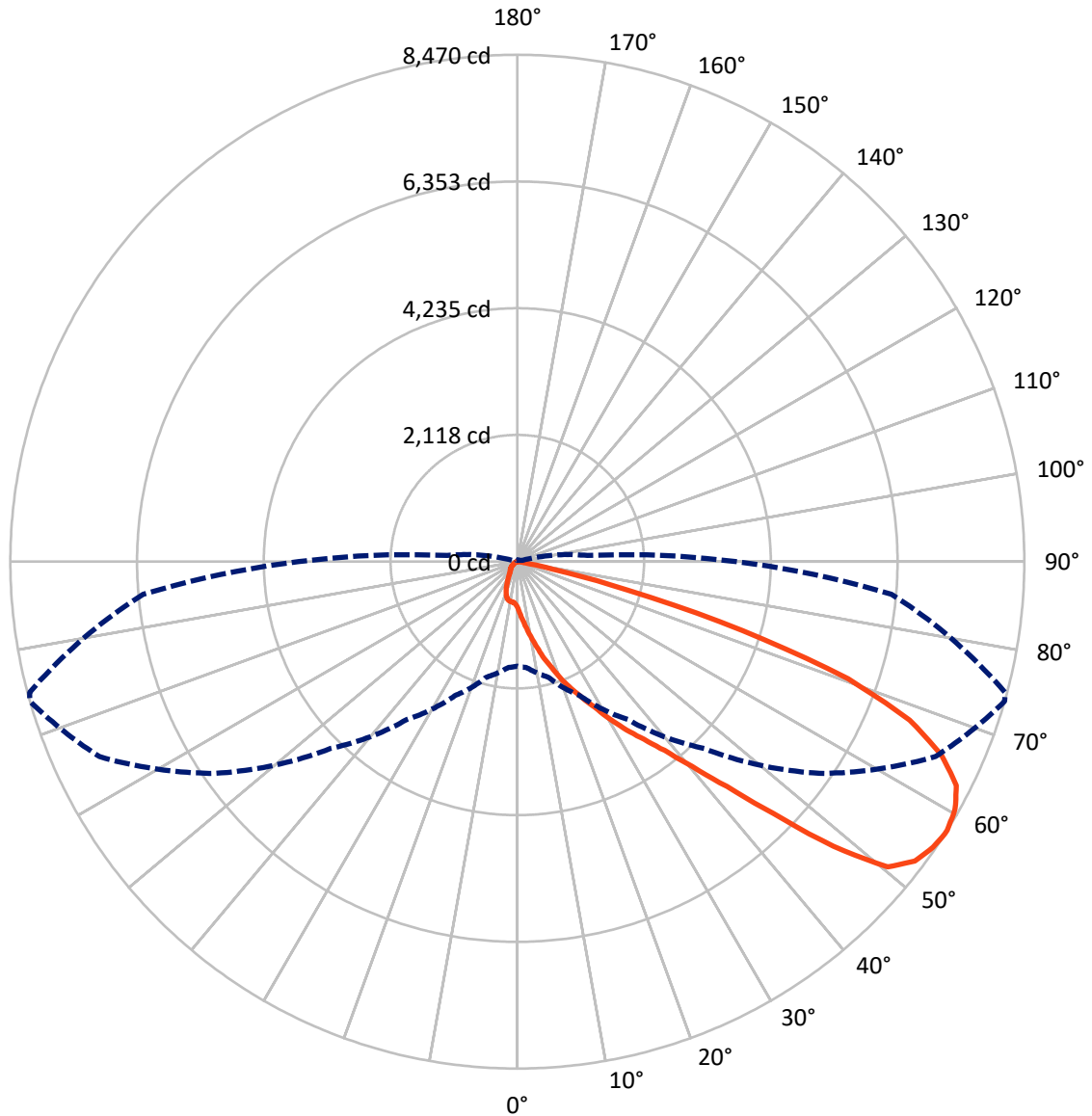
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	528.4	0.0	528.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	8632.6	0.0	8632.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	9161.0	0.0	9161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.0
10°-20°	365.0	4.0
20°-30°	781.0	8.5
30°-40°	1435.5	15.7
40°-50°	2200.7	24.0
50°-60°	2328.1	25.4
60°-70°	1520.3	16.6
70°-80°	415.4	4.5
80°-90°	22.4	0.2
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°	9161.0	100.0
0°-180°	9161.0	100.0

Coefficient of Utilization



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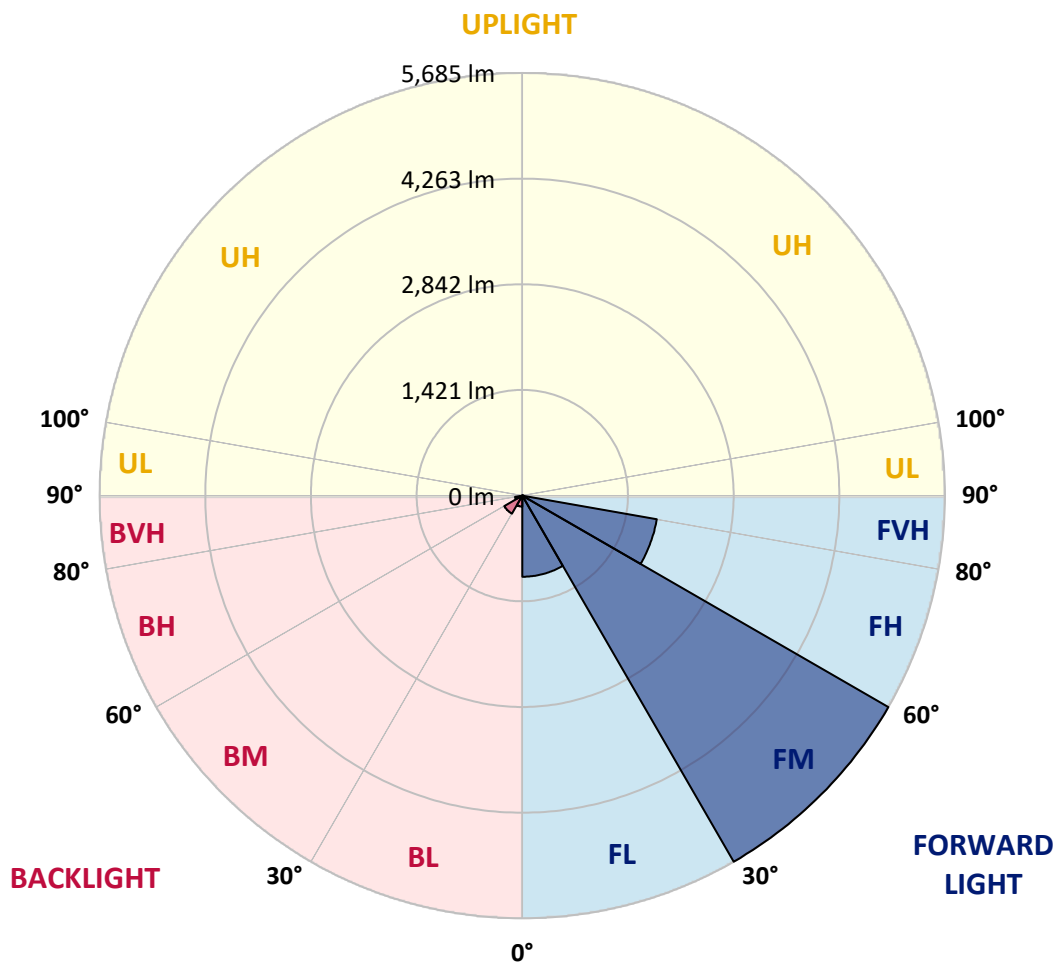
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.1	11.9			
FM (30°-60°)	5684.6	62.1			
FH (60°-80°)	1836.5	20.0			G2/5000
FVH (80°-90°)	20.5	0.2			G1/100
BL (0°-30°)	147.6	1.6	B1/500		
BM (30°-60°)	279.7	3.1	B1/1000		
BH (60°-80°)	99.2	1.1	B0/110		G0/110
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2
2.5°	1122.7	1112.6	1092.3	1085.4	1055.6	1009.5	969.0	914.6	871.6	867.2	815.3
5°	1503.5	1480.7	1471.2	1425.7	1354.2	1287.1	1172.0	1084.7	984.2	976.6	872.2
7.5°	1870.3	1838.7	1829.2	1786.2	1702.7	1597.1	1447.8	1289.0	1129.6	1115.1	948.7
10°	2136.0	2140.4	2123.3	2094.8	2027.2	1919.6	1735.6	1518.6	1291.6	1273.2	1034.8
12.5°	2326.3	2325.7	2328.9	2328.2	2292.2	2210.6	2017.0	1767.2	1469.9	1433.9	1133.4
15°	2450.3	2452.2	2461.7	2494.6	2498.4	2447.8	2286.5	2005.0	1676.8	1631.8	1240.3
17.5°	2575.5	2588.8	2604.0	2635.0	2662.8	2642.6	2528.7	2253.0	1864.0	1830.5	1354.8
20°	2782.4	2800.7	2791.9	2810.8	2825.4	2827.3	2739.4	2481.9	2091.0	2034.8	1485.7
22.5°	3113.2	3112.5	3089.8	3055.6	3027.1	3025.9	2946.2	2717.2	2297.2	2242.8	1617.3
25°	3531.2	3533.1	3488.9	3391.5	3320.6	3234.0	3142.3	2923.4	2518.0	2450.9	1755.8
27.5°	4010.7	3998.7	3931.6	3797.5	3657.1	3509.1	3376.9	3163.1	2752.0	2696.3	1914.6
30°	4441.4	4437.0	4358.6	4194.7	4010.0	3861.4	3669.8	3463.6	3055.0	2986.7	2092.3
32.5°	4842.4	4848.7	4740.0	4570.4	4392.1	4220.7	4018.3	3750.7	3352.2	3255.5	2285.9
35°	5155.5	5161.8	5049.2	4908.2	4724.8	4582.5	4389.5	4056.9	3645.7	3564.1	2508.5
37.5°	5322.5	5330.7	5265.6	5159.3	5044.8	4973.3	4793.7	4450.9	4002.5	3953.1	2771.6
40°	5354.1	5363.6	5335.1	5306.7	5300.3	5351.6	5299.1	4915.2	4497.1	4419.9	3163.8
42.5°	5259.2	5271.9	5284.5	5347.8	5476.8	5664.7	5847.5	5545.1	5134.0	5030.3	3643.2
45°	5010.0	5008.8	5058.7	5222.5	5511.6	5912.6	6420.5	6333.8	6001.8	5878.4	4320.6
47.5°	4583.7	4577.4	4685.6	4918.9	5369.3	5958.1	6887.9	7291.5	7109.3	6995.4	5048.6
50°	3934.1	3965.1	4135.3	4461.0	5015.7	5820.3	7032.1	7919.5	8018.2	7897.4	5636.8
52.5°	3173.2	3172.0	3438.9	3881.0	4492.0	5516.7	6931.6	8033.4	8313.6	8221.2	5926.5
55°	2348.5	2364.9	2642.6	3088.5	3812.1	4962.6	6603.3	7916.4	8426.2	8361.0	6117.5
57°	1747.0	1776.1	1998.7	2470.5	3220.1	4414.2	6166.2	7707.0	8470.4	8435.0	6276.3
57.5°	1630.6	1631.8	1848.8	2277.6	3046.7	4203.6	6041.0	7619.7	8469.2	8449.6	6302.2
60°	1003.8	1035.4	1185.3	1539.5	2230.2	3280.8	5201.7	7118.1	8403.4	8431.9	6412.9
62.5°	600.9	614.2	711.6	927.9	1437.7	2394.6	4256.7	6476.2	8232.0	8318.6	6405.3
65°	386.5	389.6	433.9	561.7	898.8	1618.6	3280.1	5628.0	7788.6	7948.0	6154.9
67.5°	298.5	303.6	321.3	368.7	521.2	1008.2	2320.0	4722.9	7071.3	7276.9	5547.7
70°	265.0	267.5	273.9	289.1	344.7	569.2	1443.4	3689.4	5863.9	5922.1	4341.5
72.5°	216.3	223.3	242.9	247.9	273.2	355.5	803.3	2476.2	3939.8	3954.4	2428.8
75°	167.6	168.9	198.0	212.5	230.2	244.8	358.6	1248.6	1892.4	1791.2	936.1
77.5°	125.2	130.9	144.2	162.6	187.9	175.2	160.7	470.6	587.6	576.8	272.0
80°	80.3	83.5	100.6	122.1	146.1	114.5	90.4	137.9	129.0	132.8	65.1
82.5°	40.5	41.1	64.5	99.3	93.0	57.6	56.9	56.3	48.1	47.4	30.4
85°	4.4	9.5	41.7	56.9	41.7	19.0	26.6	25.9	25.3	25.9	17.7
87.5°	0.6	0.6	7.0	8.2	5.7	6.3	7.6	8.2	10.1	9.5	7.6
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°	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2
2.5°	790.0	764.7	717.9	673.0	639.5	618.0	590.1	580.0	565.5	563.6	556.6
5°	824.1	776.1	694.5	630.0	578.1	538.9	504.7	476.3	453.5	448.4	451.0
7.5°	872.8	801.4	687.5	599.6	527.5	460.5	406.1	372.5	348.5	339.7	340.9
10°	927.9	834.9	686.3	567.4	457.3	375.1	315.6	285.9	272.0	266.9	261.2
12.5°	993.0	873.5	683.1	517.4	380.1	299.2	256.8	239.1	225.8	222.0	222.0
15°	1066.4	914.6	667.9	455.4	308.7	247.3	218.8	204.9	200.5	196.7	196.7
17.5°	1142.9	955.1	636.3	378.9	256.2	211.9	194.2	186.0	179.6	175.2	175.2
20°	1230.2	994.9	585.7	311.2	216.3	189.1	175.2	165.7	160.7	156.9	155.6
22.5°	1313.1	1027.2	521.2	255.5	188.5	170.1	157.5	147.4	142.3	140.4	140.4
25°	1399.1	1046.8	443.4	211.3	172.0	154.3	140.4	132.2	127.8	126.5	125.9
27.5°	1482.6	1058.2	375.1	184.7	156.9	139.8	126.5	120.2	115.7	114.5	115.1
30°	1583.8	1060.1	308.7	165.7	143.6	125.9	113.8	108.2	105.6	104.4	103.7
32.5°	1686.2	1057.5	259.3	154.3	130.9	113.8	103.7	99.3	97.4	95.5	95.5
35°	1801.4	1044.3	220.7	142.9	118.9	103.7	94.9	91.1	88.5	86.7	86.0
37.5°	1944.3	1037.3	198.6	130.3	108.2	94.2	86.0	82.2	80.3	77.8	77.2
40°	2169.5	1068.3	191.6	118.9	97.4	85.4	77.8	73.4	70.8	68.3	67.7
42.5°	2450.3	1122.7	180.3	107.5	87.9	77.2	69.6	64.5	60.1	56.9	55.7
45°	2814.0	1194.2	162.6	95.5	79.7	68.3	61.4	55.0	49.3	46.8	46.2
47.5°	3195.4	1263.1	146.7	86.0	70.8	60.7	53.1	46.2	41.1	39.2	38.6
50°	3429.4	1277.0	136.6	75.3	62.0	52.5	44.9	38.6	35.4	33.5	33.5
52.5°	3536.3	1254.9	122.7	65.8	53.8	46.2	38.6	33.5	31.6	30.4	29.7
55°	3610.9	1220.7	104.4	56.9	46.2	39.2	34.2	30.4	27.8	26.6	25.9
57°	3654.6	1174.6	90.4	50.0	39.8	34.2	30.4	27.2	24.7	22.1	22.1
57.5°	3656.5	1156.8	86.7	49.3	37.9	32.9	29.7	26.6	23.4	20.9	20.2
60°	3600.2	1035.4	69.6	41.7	30.4	27.8	24.7	20.9	16.4	13.9	13.3
62.5°	3419.3	881.1	57.6	35.4	24.7	21.5	17.7	15.8	11.4	8.2	8.2
65°	3145.4	714.7	49.3	28.5	20.2	15.8	12.0	11.4	7.0	3.8	3.2
67.5°	2749.5	556.6	41.7	23.4	17.1	11.4	8.2	7.6	3.8	1.3	0.0
70°	2094.8	379.5	34.8	19.0	12.6	8.2	5.7	4.4	2.5	0.6	0.0
72.5°	1207.4	208.7	29.1	14.5	9.5	6.3	4.4	2.5	2.5	0.0	0.0
75°	431.4	89.8	22.1	10.8	7.6	5.1	3.2	1.3	1.9	0.6	0.0
77.5°	137.3	48.1	14.5	8.2	6.3	3.8	2.5	1.3	1.3	0.6	0.0
80°	40.5	25.3	8.9	7.0	4.4	3.2	1.9	0.6	1.3	0.6	0.0
82.5°	22.1	12.6	7.0	5.1	4.4	2.5	1.9	0.6	0.6	0.6	0.0
85°	11.4	7.6	5.7	5.1	4.4	2.5	1.9	0.6	0.0	0.6	0.6
87.5°	6.3	5.7	5.7	5.1	4.4	3.2	1.9	0.6	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)