

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: P455458

Luminaire Tested: **GALN-SA6C-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455458
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-SA6C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA 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: 24537 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

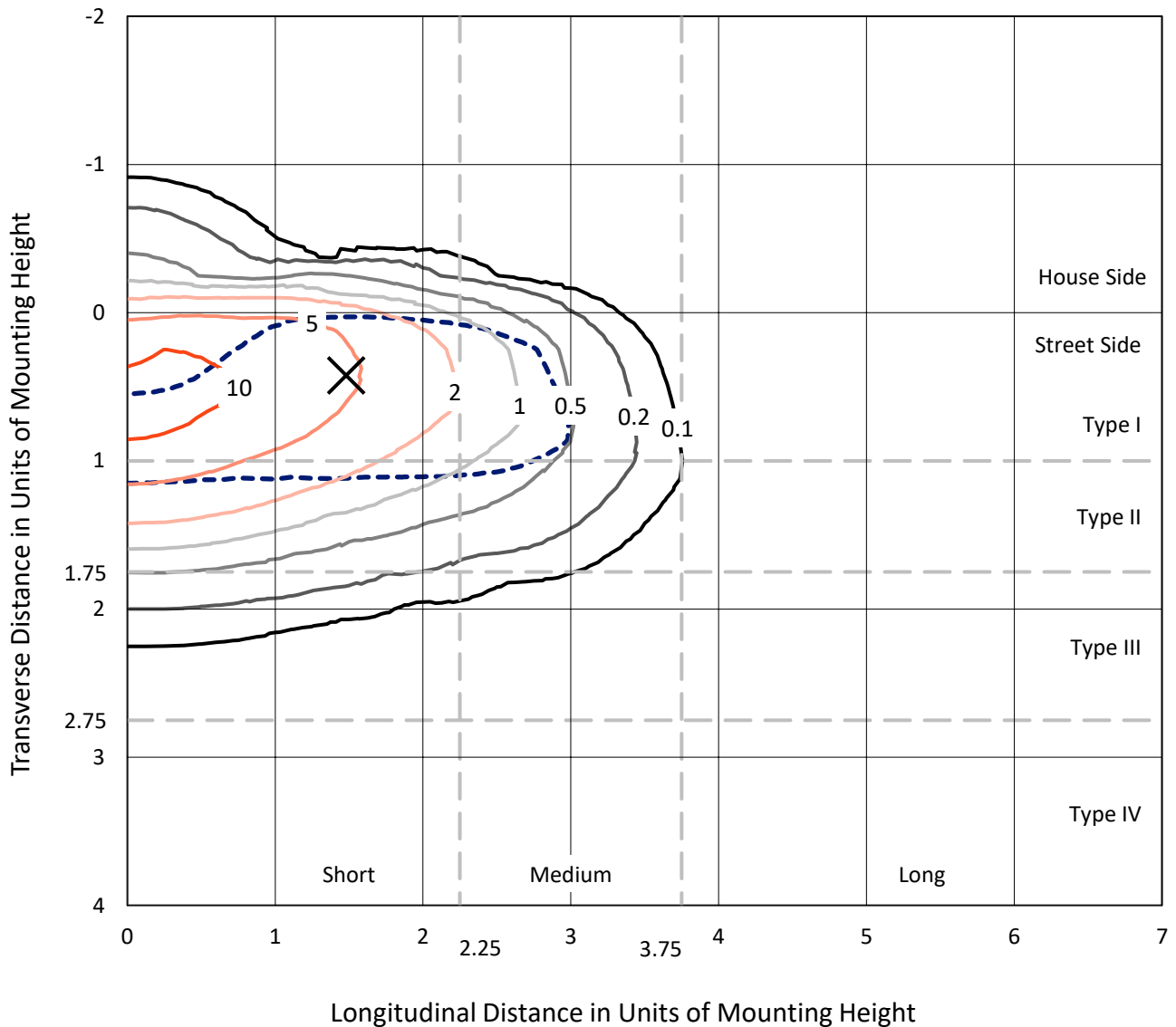
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455458
 CATALOG NUMBER: GALN-SA6C-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

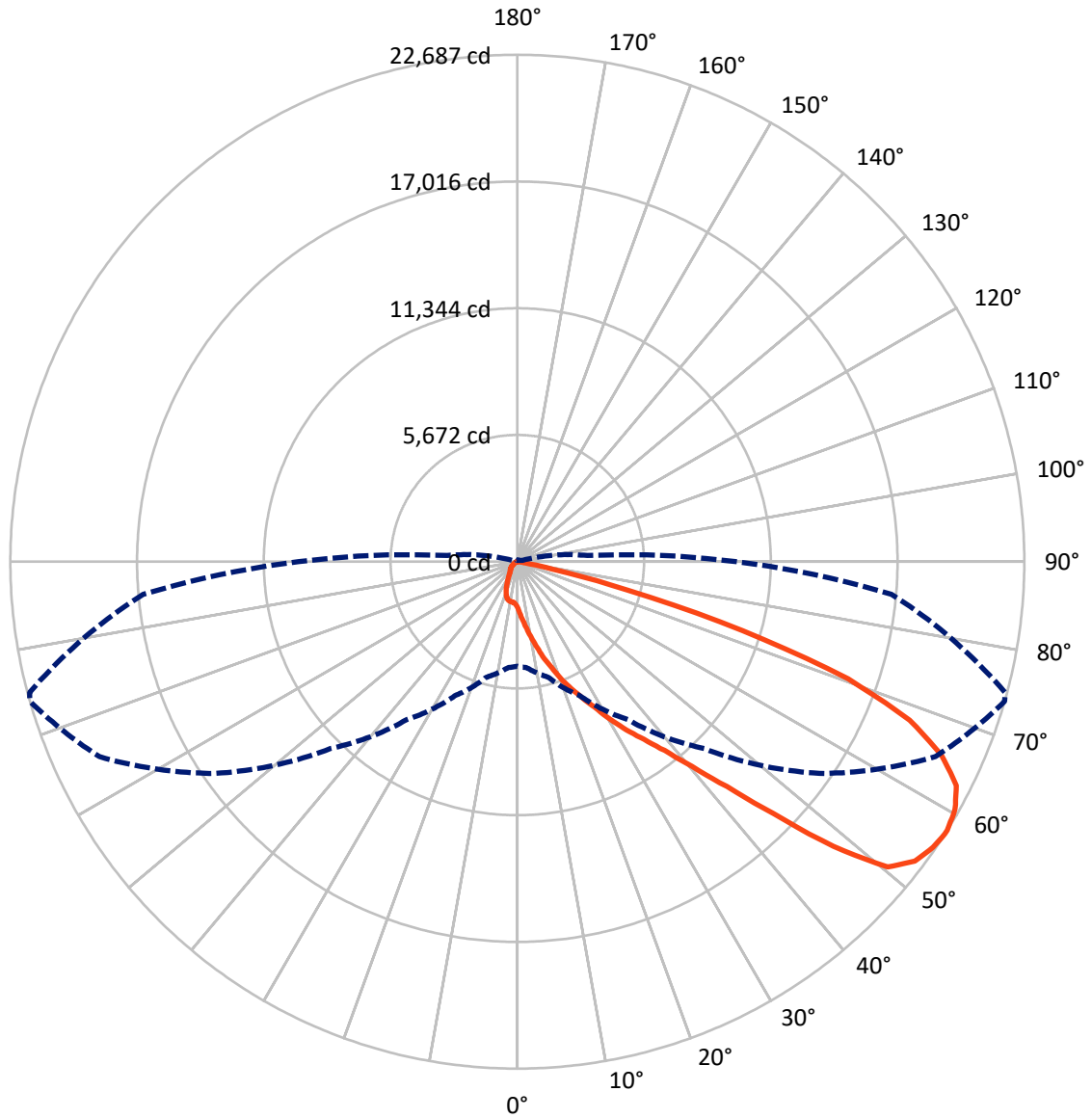
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

REPORT NUMBER: P455458
CATALOG NUMBER: GALN-SA6C-827-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P455458

CATALOG NUMBER: GALN-SA6C-827-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1415.2	0.0	1415.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	23121.8	0.0	23121.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	24537.0	0.0	24537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.0	1.0
10°-20°	977.7	4.0
20°-30°	2091.9	8.5
30°-40°	3845.0	15.7
40°-50°	5894.4	24.0
50°-60°	6235.5	25.4
60°-70°	4072.0	16.6
70°-80°	1112.6	4.5
80°-90°	59.9	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°	24537.0	100.0
0°-180°	24537.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455458

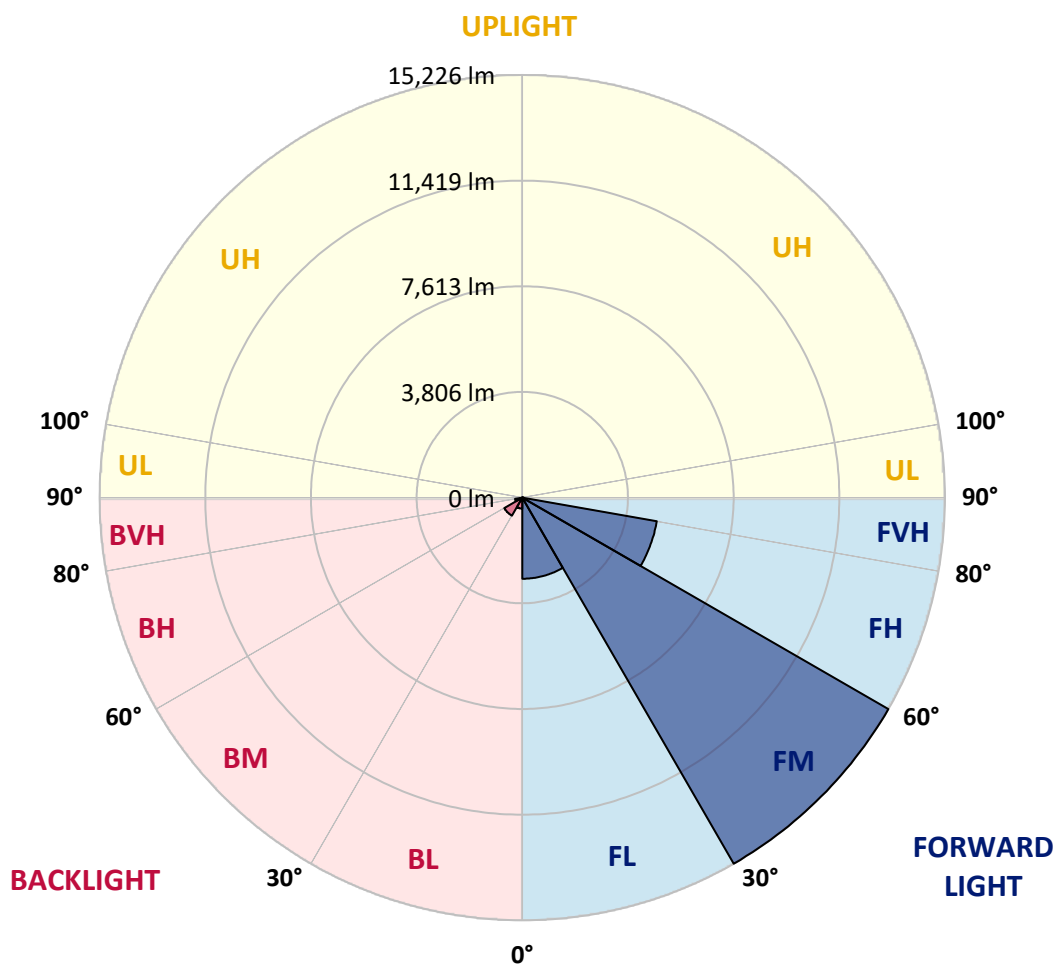
CATALOG NUMBER: GALN-SA6C-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2922.3	11.9			
FM (30°-60°)	15225.7	62.1			
FH (60°-80°)	4918.9	20.0			G2/5000
FVH (80°-90°)	54.9	0.2			G1/100
BL (0°-30°)	395.3	1.6	B1/500		
BM (30°-60°)	749.3	3.1	B1/1000		
BH (60°-80°)	265.7	1.1	B1/500		G1/500
BVH (80°-90°)	5.0	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





REPORT NUMBER: P455458

CATALOG NUMBER: GALN-SA6C-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9
2.5°	3007.0	2979.9	2925.7	2907.1	2827.5	2703.8	2595.4	2449.7	2334.5	2322.6	2183.7
5°	4026.9	3965.9	3940.5	3818.5	3627.1	3447.5	3139.2	2905.4	2636.0	2615.7	2336.2
7.5°	5009.5	4924.7	4899.3	4784.1	4560.5	4277.6	3877.8	3452.6	3025.7	2986.7	2541.1
10°	5721.0	5732.8	5687.1	5610.9	5429.6	5141.6	4648.6	4067.5	3459.3	3410.2	2771.5
12.5°	6230.9	6229.2	6237.7	6236.0	6139.4	5920.9	5402.5	4733.3	3937.1	3840.5	3035.8
15°	6562.9	6568.0	6593.4	6681.5	6691.7	6556.2	6124.2	5370.3	4491.1	4370.8	3322.1
17.5°	6898.4	6933.9	6974.6	7057.6	7132.2	7077.9	6773.0	6034.4	4992.5	4902.7	3628.8
20°	7452.3	7501.5	7477.8	7528.6	7567.5	7572.6	7337.1	6647.6	5600.7	5449.9	3979.4
22.5°	8338.4	8336.7	8275.7	8184.2	8108.0	8104.6	7891.1	7277.8	6153.0	6007.3	4331.8
25°	9458.2	9463.2	9344.6	9083.8	8894.0	8661.9	8416.3	7830.1	6744.2	6564.6	4702.8
27.5°	10742.3	10710.1	10530.5	10171.4	9795.3	9398.9	9044.8	8472.2	7371.0	7221.9	5128.0
30°	11896.0	11884.1	11674.0	11235.3	10740.6	10342.5	9829.2	9276.9	8182.5	7999.5	5604.1
32.5°	12970.0	12987.0	12695.6	12241.6	11763.8	11304.7	10762.6	10046.0	8978.7	8719.5	6122.5
35°	13808.6	13825.5	13524.0	13146.2	12654.9	12273.7	11757.0	10865.9	9764.8	9546.2	6718.8
37.5°	14255.8	14277.9	14103.4	13818.8	13512.1	13320.7	12839.6	11921.4	10720.3	10588.1	7423.5
40°	14340.5	14366.0	14289.7	14213.5	14196.5	14333.8	14193.2	13164.8	12045.0	11838.4	8473.9
42.5°	14086.4	14120.3	14154.2	14323.6	14669.2	15172.3	15661.9	14852.2	13751.0	13473.2	9758.0
45°	13419.0	13415.6	13549.4	13988.2	14762.4	15836.4	17196.8	16964.7	16075.3	15745.0	11572.4
47.5°	12277.1	12260.2	12549.9	13175.0	14381.2	15958.4	18448.7	19529.6	19041.7	18736.7	13522.3
50°	10537.3	10620.3	11076.0	11948.5	13434.2	15589.1	18835.0	21211.8	21476.1	21152.5	15097.8
52.5°	8499.3	8495.9	9210.8	10395.0	12031.5	14775.9	18565.6	21516.7	22267.2	22019.9	15873.7
55°	6290.2	6334.2	7077.9	8272.3	10210.3	13291.9	17686.4	21203.3	22568.8	22394.3	16385.3
57°	4679.1	4757.0	5353.4	6617.1	8624.7	11823.1	16515.8	20642.6	22687.4	22592.5	16810.5
57.5°	4367.4	4370.8	4951.9	6100.4	8160.5	11259.0	16180.3	20408.8	22684.0	22631.5	16880.0
60°	2688.5	2773.2	3174.7	4123.4	5973.4	8787.3	13932.3	19065.4	22507.8	22584.0	17176.5
62.5°	1609.4	1645.0	1905.9	2485.2	3850.7	6413.9	11401.3	17345.9	22048.7	22280.8	17156.1
65°	1035.1	1043.6	1162.2	1504.4	2407.3	4335.2	8785.6	15074.1	20861.1	21288.0	16485.3
67.5°	799.6	813.2	860.6	987.7	1395.9	2700.4	6214.0	12649.8	18940.0	19490.6	14858.9
70°	709.8	716.6	733.5	774.2	923.3	1524.7	3865.9	9881.7	15706.0	15861.8	11628.3
72.5°	579.4	598.0	650.5	664.1	731.9	952.1	2151.5	6632.4	10552.5	10591.5	6505.3
75°	448.9	452.3	530.3	569.2	616.7	655.6	960.6	3344.2	5068.7	4797.7	2507.3
77.5°	335.4	350.7	386.3	435.4	503.1	469.3	430.3	1260.4	1573.8	1545.0	728.5
80°	215.2	223.6	269.4	327.0	391.3	306.6	242.3	369.3	345.6	355.8	174.5
82.5°	108.4	110.1	172.8	266.0	249.0	154.2	152.5	150.8	128.8	127.1	81.3
85°	11.9	25.4	111.8	152.5	111.8	50.8	71.2	69.5	67.8	69.5	47.4
87.5°	1.7	1.7	18.6	22.0	15.2	16.9	20.3	22.0	27.1	25.4	20.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455458

CATALOG NUMBER: GALN-SA6C-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9
2.5°	2115.9	2048.2	1922.8	1802.5	1712.7	1655.1	1580.6	1553.5	1514.5	1509.4	1490.8
5°	2207.4	2078.7	1860.1	1687.3	1548.4	1443.4	1351.9	1275.7	1214.7	1201.1	1207.9
7.5°	2337.9	2146.4	1841.5	1606.0	1412.9	1233.3	1087.6	997.8	933.4	909.7	913.1
10°	2485.2	2236.2	1838.1	1519.6	1224.8	1004.6	845.4	765.7	728.5	714.9	699.7
12.5°	2659.7	2339.6	1829.6	1385.8	1018.2	801.3	687.8	640.4	604.8	594.6	594.6
15°	2856.3	2449.7	1789.0	1219.8	826.7	662.4	586.2	548.9	537.0	526.9	526.9
17.5°	3061.2	2558.1	1704.3	1014.8	686.1	567.5	520.1	498.1	481.1	469.3	469.3
20°	3295.0	2664.8	1568.7	833.5	579.4	506.5	469.3	443.9	430.3	420.1	416.7
22.5°	3516.9	2751.2	1395.9	684.4	504.8	455.7	421.8	394.7	381.2	376.1	376.1
25°	3747.3	2803.7	1187.6	565.8	460.8	413.4	376.1	354.1	342.2	338.8	337.1
27.5°	3971.0	2834.2	1004.6	494.7	420.1	374.4	338.8	321.9	310.0	306.6	308.3
30°	4242.0	2839.3	826.7	443.9	384.6	337.1	304.9	289.7	282.9	279.5	277.8
32.5°	4516.5	2832.5	694.6	413.4	350.7	304.9	277.8	266.0	260.9	255.8	255.8
35°	4824.8	2797.0	591.2	382.9	318.5	277.8	254.1	244.0	237.2	232.1	230.4
37.5°	5207.7	2778.3	531.9	349.0	289.7	252.4	230.4	220.2	215.2	208.4	206.7
40°	5810.8	2861.3	513.3	318.5	260.9	228.7	208.4	196.5	189.7	183.0	181.3
42.5°	6562.9	3007.0	482.8	288.0	235.5	206.7	186.4	172.8	160.9	152.5	149.1
45°	7537.0	3198.5	435.4	255.8	213.5	183.0	164.3	147.4	132.1	125.4	123.7
47.5°	8558.6	3383.1	393.0	230.4	189.7	162.6	142.3	123.7	110.1	105.0	103.3
50°	9185.4	3420.4	365.9	201.6	166.0	140.6	120.3	103.3	94.9	89.8	89.8
52.5°	9471.7	3361.1	328.7	176.2	144.0	123.7	103.3	89.8	84.7	81.3	79.6
55°	9671.6	3269.6	279.5	152.5	123.7	105.0	91.5	81.3	74.5	71.2	69.5
57°	9788.5	3145.9	242.3	133.8	106.7	91.5	81.3	72.8	66.1	59.3	59.3
57.5°	9793.6	3098.5	232.1	132.1	101.6	88.1	79.6	71.2	62.7	55.9	54.2
60°	9642.8	2773.2	186.4	111.8	81.3	74.5	66.1	55.9	44.0	37.3	35.6
62.5°	9158.3	2359.9	154.2	94.9	66.1	57.6	47.4	42.4	30.5	22.0	22.0
65°	8424.8	1914.3	132.1	76.2	54.2	42.4	32.2	30.5	18.6	10.2	8.5
67.5°	7364.2	1490.8	111.8	62.7	45.7	30.5	22.0	20.3	10.2	3.4	0.0
70°	5610.9	1016.5	93.2	50.8	33.9	22.0	15.2	11.9	6.8	1.7	0.0
72.5°	3234.0	559.1	77.9	39.0	25.4	16.9	11.9	6.8	6.8	0.0	0.0
75°	1155.4	240.6	59.3	28.8	20.3	13.6	8.5	3.4	5.1	1.7	0.0
77.5°	367.6	128.8	39.0	22.0	16.9	10.2	6.8	3.4	3.4	1.7	0.0
80°	108.4	67.8	23.7	18.6	11.9	8.5	5.1	1.7	3.4	1.7	0.0
82.5°	59.3	33.9	18.6	13.6	11.9	6.8	5.1	1.7	1.7	1.7	0.0
85°	30.5	20.3	15.2	13.6	11.9	6.8	5.1	1.7	0.0	1.7	1.7
87.5°	16.9	15.2	15.2	13.6	11.9	8.5	5.1	1.7	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)