

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: P456394

Luminaire Tested: **GALN-SA7C-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26041 lumens
Efficiency: N/A
Efficacy: 69.1 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

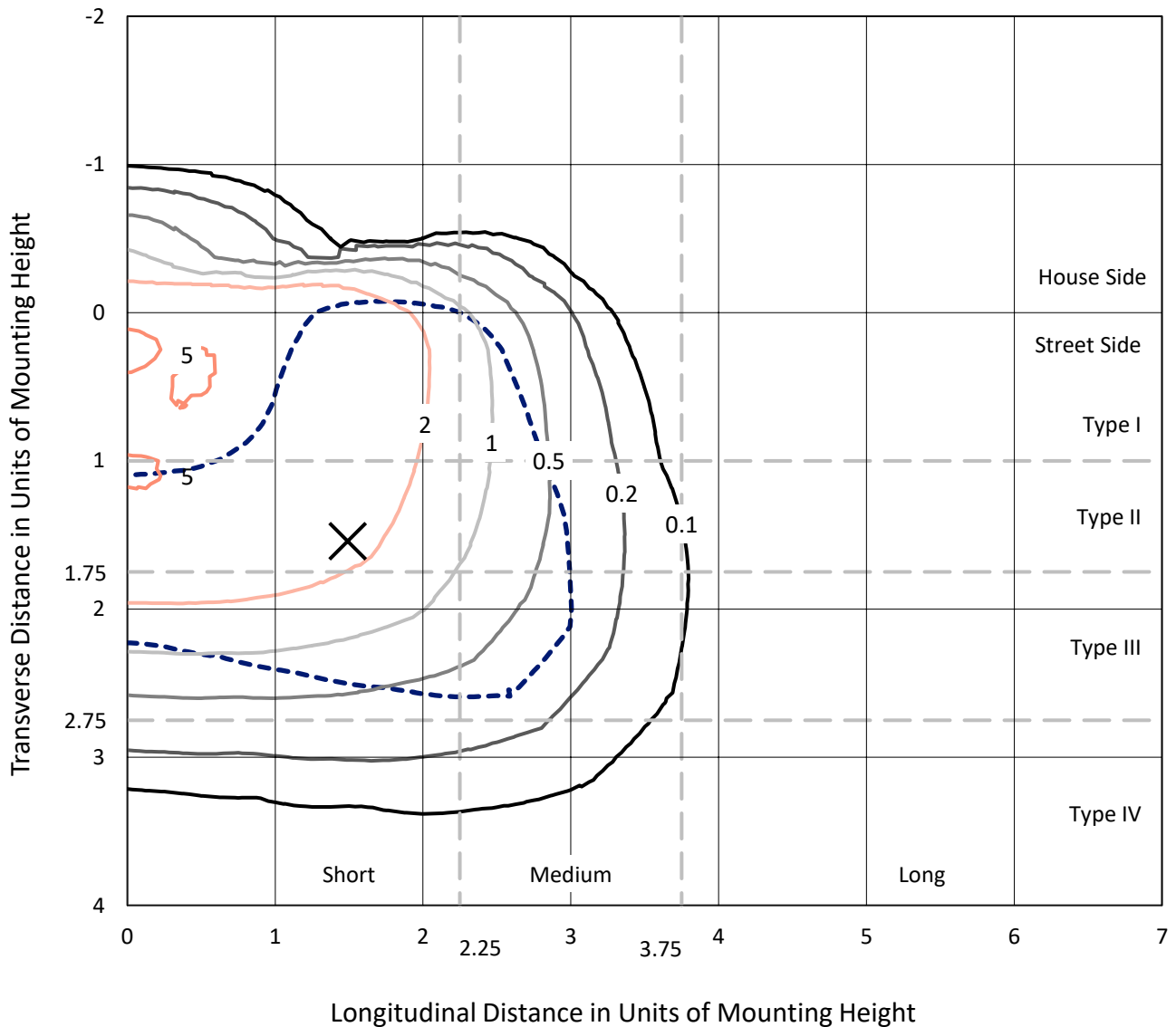
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456394
 CATALOG NUMBER: GALN-SA7C-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

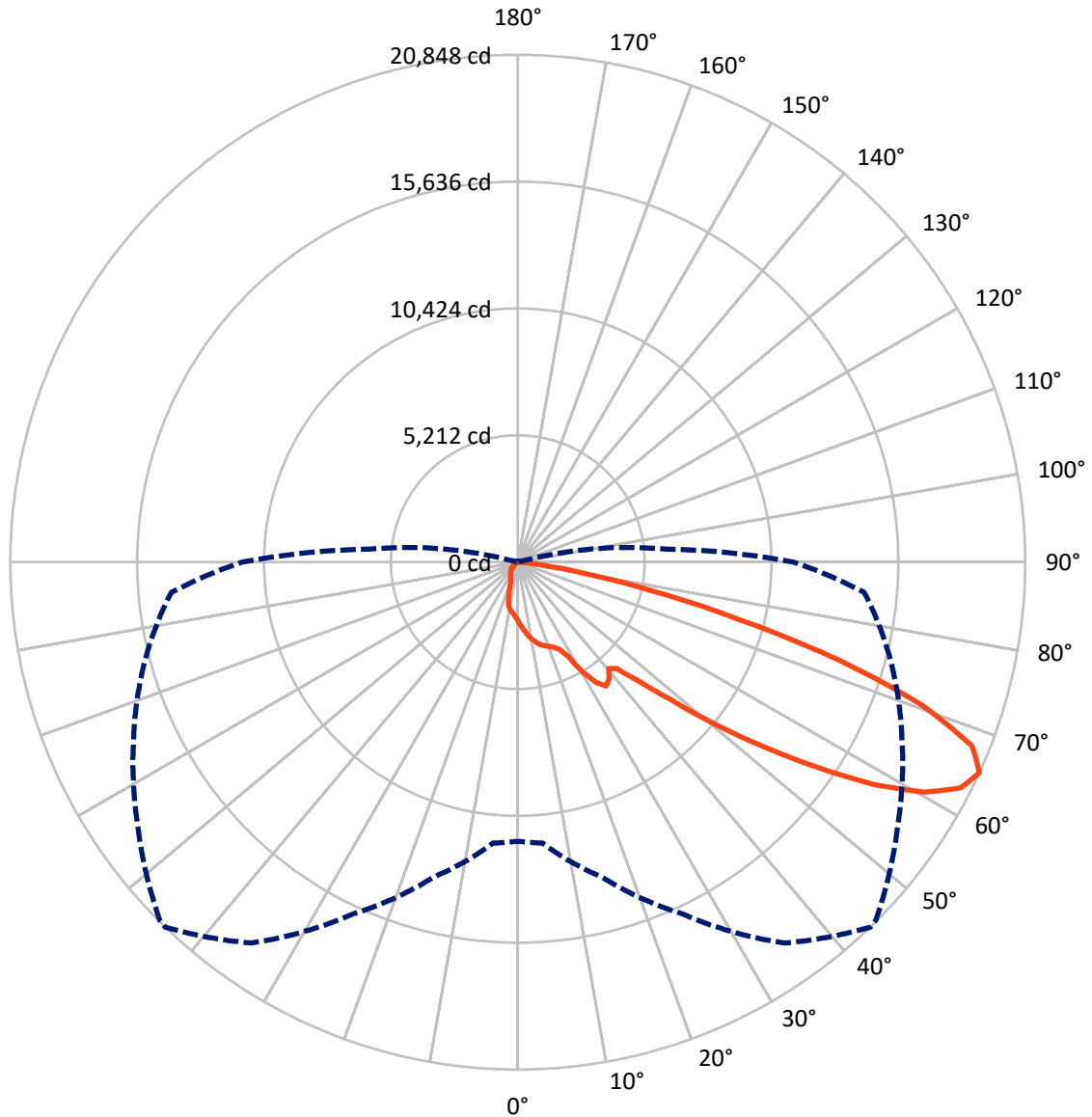
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

REPORT NUMBER: P456394
CATALOG NUMBER: GALN-SA7C-827-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P456394

CATALOG NUMBER: GALN-SA7C-827-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2399.3	0.0	2399.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	23641.7	0.0	23641.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	26041.0	0.0	26041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.0	0.9
10°-20°	725.5	2.8
20°-30°	1230.2	4.7
30°-40°	2045.4	7.9
40°-50°	3571.3	13.7
50°-60°	6977.1	26.8
60°-70°	8095.0	31.1
70°-80°	2947.8	11.3
80°-90°	207.7	0.8
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°	26041.0	100.0
0°-180°	26041.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456394

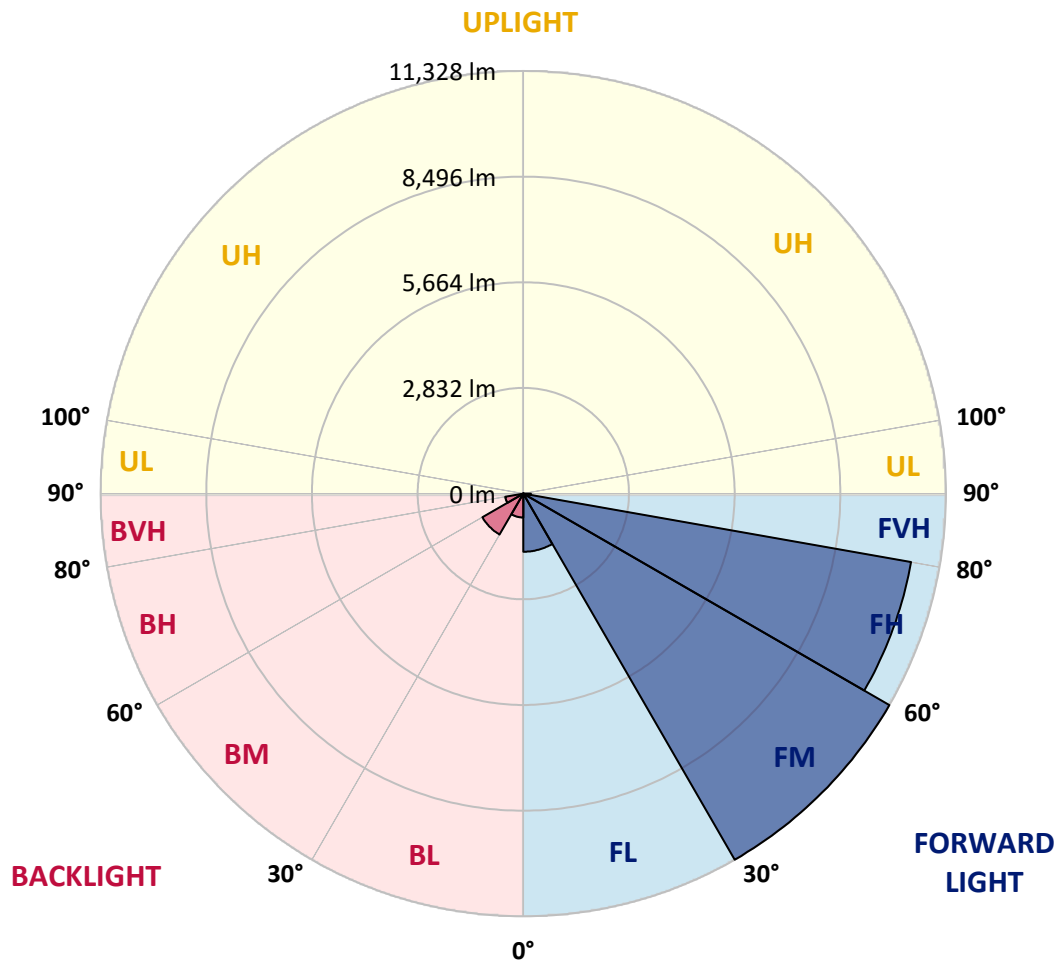
CATALOG NUMBER: GALN-SA7C-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.5	6.0			
FM (30°-60°)	11327.9	43.5			
FH (60°-80°)	10551.5	40.5			G4/12000
FVH (80°-90°)	204.9	0.8			G2/225
BL (0°-30°)	639.3	2.5	B2/1000		
BM (30°-60°)	1265.9	4.9	B2/2500		
BH (60°-80°)	491.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P456394

CATALOG NUMBER: GALN-SA7C-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6
2.5°	2728.1	2716.1	2710.2	2678.3	2654.5	2624.6	2624.6	2586.8	2543.0	2495.3	2451.5
5°	3032.5	3012.6	2986.8	2958.9	2903.2	2823.6	2823.6	2744.0	2652.5	2570.9	2481.3
7.5°	3325.0	3307.1	3263.4	3209.6	3118.1	3034.5	3028.6	2913.1	2803.7	2680.3	2553.0
10°	3581.7	3567.8	3530.0	3426.5	3331.0	3221.6	3219.6	3090.2	2962.9	2811.7	2654.5
12.5°	3760.8	3762.8	3713.1	3613.6	3490.2	3386.7	3378.8	3251.4	3118.1	2954.9	2761.9
15°	3888.2	3888.2	3836.4	3725.0	3613.6	3522.0	3514.1	3402.6	3265.3	3088.3	2879.3
17.5°	3924.0	3935.9	3880.2	3780.7	3691.2	3611.6	3609.6	3516.1	3406.6	3235.5	2998.7
20°	3910.1	3922.0	3878.2	3800.6	3738.9	3693.2	3687.2	3649.4	3547.9	3386.7	3126.1
22.5°	3880.2	3892.2	3860.3	3814.5	3784.7	3798.6	3788.7	3820.5	3766.8	3571.8	3277.3
25°	3886.2	3898.1	3874.2	3848.4	3874.2	3959.8	3985.7	4123.0	4075.2	3806.6	3440.5
27.5°	4073.2	4097.1	4063.3	4075.2	4166.8	4365.7	4415.5	4652.3	4441.4	4105.1	3695.2
30°	4489.1	4473.2	4409.5	4467.2	4785.6	5207.4	5193.5	5155.7	4825.4	4449.3	3997.6
32.5°	4867.2	4853.3	4849.3	5098.0	5675.1	5880.0	5870.1	5503.9	5169.6	4843.3	4296.1
35°	5020.4	4966.7	4954.7	5557.7	6522.7	6252.1	6190.4	5647.2	5587.5	5273.1	4600.5
37.5°	5482.0	5444.2	5259.2	5633.3	6184.5	6094.9	6047.2	5893.9	6033.2	5653.2	4944.8
40°	6433.2	6327.7	6160.6	5794.5	5704.9	5742.7	5790.5	6210.3	6560.5	6172.5	5404.4
42.5°	7615.2	7591.3	7280.9	6598.4	5927.8	5979.5	6041.2	6871.0	7318.7	6954.5	6154.6
45°	9033.9	9067.8	8620.0	7814.2	6934.6	6978.4	7068.0	7846.0	8345.4	8170.3	7334.6
47.5°	10323.4	10297.5	10146.3	9308.5	8496.7	8399.2	8544.4	9097.6	9766.2	9794.1	8799.1
50°	11620.7	11758.0	11533.2	11204.9	10601.9	10397.0	10343.3	10613.9	11632.7	11499.4	10558.2
52.5°	13485.2	13556.9	13135.0	13051.4	13188.7	12524.1	12470.4	12536.1	13447.4	12989.8	11875.4
55°	14657.3	14615.5	14458.3	15110.9	15654.2	14824.4	14756.7	14492.1	14953.7	14042.4	13143.0
57.5°	15027.4	15087.1	15453.2	16633.2	17918.6	17214.2	17090.8	16338.7	16040.2	15023.4	14309.0
60°	14862.2	14971.7	15761.6	17516.7	19299.6	19194.1	19088.7	17825.1	16820.2	15843.2	15126.9
62.5°	13686.2	13839.4	15103.0	17359.5	19767.2	20425.8	20294.5	18752.4	17339.6	16241.2	15270.1
65°	11469.5	11582.9	13397.7	15932.7	19102.6	20847.7	20799.9	19042.9	17421.2	15877.0	14289.1
67.5°	8176.3	8562.3	10243.8	13427.5	17136.6	20127.4	20208.9	18694.7	16655.1	14303.1	11833.7
70°	5139.8	5402.4	6608.3	9613.0	13737.9	17658.0	17926.6	17100.8	14454.3	11149.1	7921.6
72.5°	2451.5	2646.5	3506.1	6085.0	9696.6	13893.2	14106.1	14038.4	11177.0	7024.2	4087.2
75°	1092.4	1166.1	1673.5	3106.2	6260.1	9338.4	9889.6	9981.1	6984.4	3436.5	1589.9
77.5°	557.2	559.1	784.0	1504.3	3126.1	5571.6	5681.0	6001.4	3786.7	1514.3	553.2
80°	296.5	316.4	415.9	710.4	1621.7	2744.0	2730.1	3000.7	1679.4	742.2	185.1
82.5°	133.3	147.2	234.8	372.1	792.0	1040.7	1122.3	1227.7	720.3	473.6	81.6
85°	39.8	47.8	115.4	187.0	286.5	300.5	336.3	433.8	407.9	336.3	41.8
87.5°	6.0	6.0	47.8	51.7	41.8	53.7	55.7	61.7	131.3	123.4	21.9
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°	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6	2423.6
2.5°	2427.6	2413.7	2363.9	2322.2	2286.3	2264.5	2238.6	2222.7	2214.7	2208.7	2210.7
5°	2437.6	2403.7	2318.2	2250.5	2198.8	2143.1	2105.3	2083.4	2073.4	2057.5	2057.5
7.5°	2493.3	2439.6	2320.2	2216.7	2127.2	2051.5	1979.9	1954.0	1936.1	1932.1	1928.2
10°	2572.9	2505.2	2342.1	2198.8	2071.4	1968.0	1866.5	1776.9	1707.3	1665.5	1659.5
12.5°	2672.4	2574.9	2375.9	2186.8	2023.7	1840.6	1572.0	1390.9	1269.5	1231.7	1237.7
15°	2763.9	2658.4	2409.7	2176.9	1936.1	1526.2	1221.8	1014.8	953.1	947.2	949.2
17.5°	2873.3	2748.0	2449.5	2163.0	1695.4	1166.1	907.4	851.7	863.6	883.5	881.5
20°	2986.8	2843.5	2497.3	2079.4	1353.1	877.5	801.9	807.9	825.8	843.7	847.7
22.5°	3108.1	2952.9	2553.0	1878.4	1032.7	764.1	760.1	768.1	786.0	805.9	809.9
25°	3275.3	3090.2	2594.8	1615.8	782.0	706.4	714.4	728.3	744.2	766.1	770.1
27.5°	3490.2	3275.3	2616.7	1273.5	676.5	654.7	656.7	676.5	696.4	716.3	716.3
30°	3768.8	3496.2	2572.9	963.1	624.8	604.9	597.0	608.9	634.8	654.7	656.7
32.5°	4017.5	3705.1	2457.5	736.2	587.0	559.1	539.3	541.2	551.2	563.1	565.1
35°	4266.2	3908.1	2260.5	618.8	547.2	515.4	485.5	469.6	461.6	455.7	461.6
37.5°	4584.6	4160.8	1997.8	563.1	513.4	473.6	431.8	398.0	370.1	352.2	356.2
40°	4994.5	4511.0	1687.4	527.3	481.5	433.8	378.1	334.3	286.5	270.6	262.7
42.5°	5671.1	5042.3	1361.1	497.5	449.7	392.0	322.4	262.7	218.9	203.0	206.9
45°	6739.6	5712.9	1048.7	465.6	417.9	346.2	270.6	206.9	171.1	163.2	167.1
47.5°	8156.4	6580.4	807.9	429.8	378.1	296.5	212.9	163.2	141.3	139.3	137.3
50°	9489.6	7388.3	674.6	390.0	330.3	246.7	175.1	137.3	123.4	121.4	121.4
52.5°	10695.5	7967.4	549.2	344.2	278.6	203.0	147.2	121.4	109.4	103.5	103.5
55°	11768.0	8345.4	445.7	288.5	218.9	161.2	127.4	109.4	95.5	87.6	85.6
57.5°	12577.9	8391.2	334.3	230.8	163.2	125.4	109.4	95.5	79.6	69.6	65.7
60°	12924.1	7995.2	246.7	175.1	121.4	99.5	87.6	77.6	59.7	49.7	47.8
62.5°	12575.9	7225.2	183.1	133.3	93.5	73.6	61.7	57.7	41.8	29.8	27.9
65°	11328.2	6112.8	145.3	101.5	69.6	53.7	39.8	37.8	25.9	13.9	11.9
67.5°	9075.7	4787.6	115.4	75.6	49.7	35.8	25.9	23.9	13.9	4.0	4.0
70°	5901.9	3060.4	93.5	55.7	31.8	23.9	15.9	11.9	8.0	2.0	0.0
72.5°	2919.1	1430.7	75.6	43.8	21.9	11.9	6.0	4.0	6.0	0.0	0.0
75°	1132.2	509.4	55.7	29.8	11.9	6.0	4.0	0.0	2.0	0.0	0.0
77.5°	376.1	169.1	33.8	15.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	139.3	65.7	17.9	9.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.7	25.9	11.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.9	15.9	8.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.9	11.9	8.0	6.0	4.0	2.0	0.0	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)