

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: P455785

Luminaire Tested: **GALN-SA7A-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455785
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-SA7A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 19270 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G4

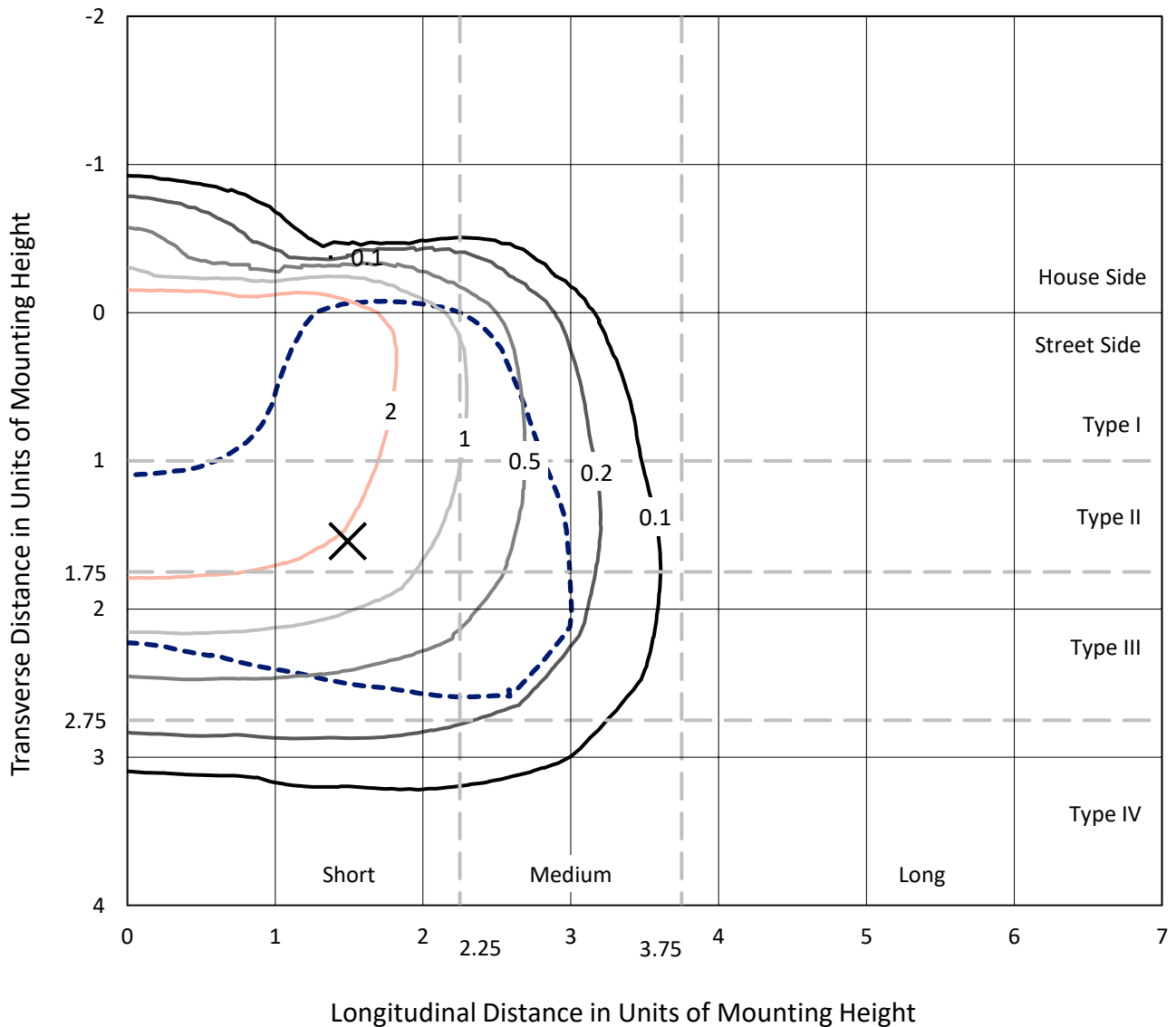
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455785
 CATALOG NUMBER: GALN-SA7A-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

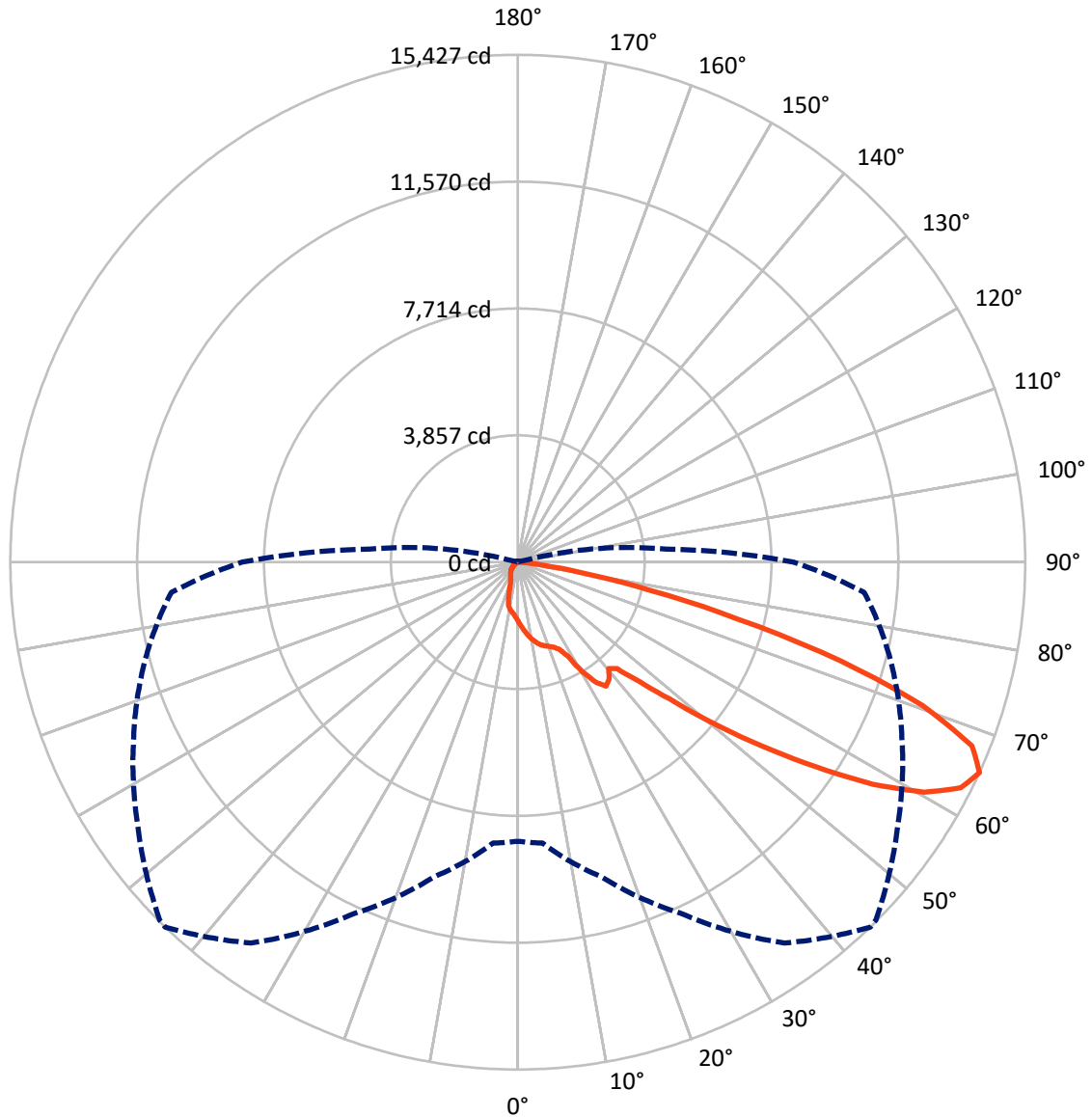
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

REPORT NUMBER: P455785
CATALOG NUMBER: GALN-SA7A-727-U-T4W-HSS

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.4	0.0	1775.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	17494.6	0.0	17494.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	19270.0	0.0	19270.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	0.9
10°-20°	536.9	2.8
20°-30°	910.3	4.7
30°-40°	1513.6	7.9
40°-50°	2642.7	13.7
50°-60°	5162.9	26.8
60°-70°	5990.2	31.1
70°-80°	2181.3	11.3
80°-90°	153.7	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°	19270.0	100.0
0°-180°	19270.0	100.0



REPORT NUMBER: P455785

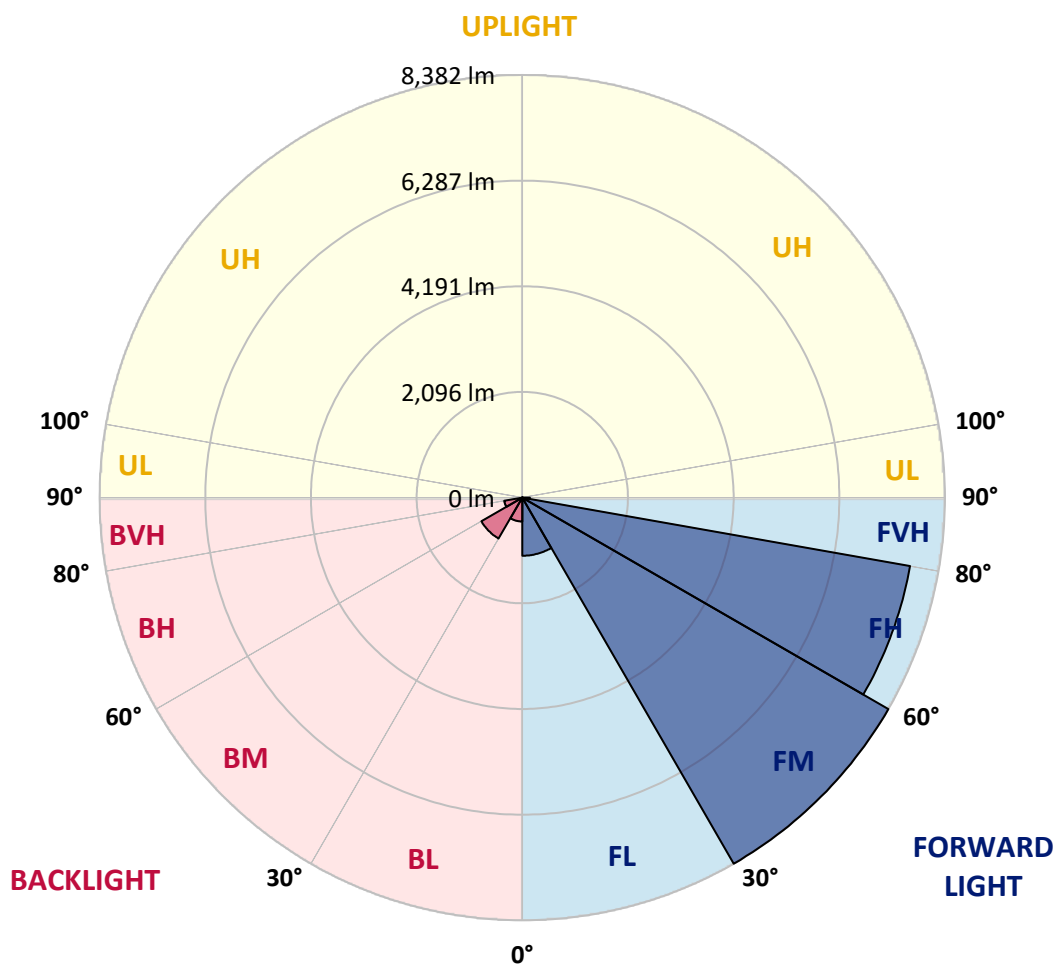
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.5	6.0			
FM (30°-60°)	8382.5	43.5			
FH (60°-80°)	7808.0	40.5			G4/12000
FVH (80°-90°)	151.6	0.8			G2/225
BL (0°-30°)	473.0	2.5	B1/500		
BM (30°-60°)	936.7	4.9	B1/1000		
BH (60°-80°)	363.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	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-G4

Type III Short





REPORT NUMBER: P455785

CATALOG NUMBER: GALN-SA7A-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5
2.5°	2018.7	2009.9	2005.5	1981.9	1964.3	1942.2	1942.2	1914.2	1881.8	1846.5	1814.1
5°	2244.0	2229.3	2210.2	2189.6	2148.3	2089.4	2089.4	2030.5	1962.8	1902.4	1836.2
7.5°	2460.5	2447.2	2414.8	2375.1	2307.4	2245.5	2241.1	2155.7	2074.7	1983.4	1889.2
10°	2650.4	2640.1	2612.2	2535.6	2464.9	2383.9	2382.4	2286.7	2192.5	2080.6	1964.3
12.5°	2783.0	2784.4	2747.6	2674.0	2582.7	2506.1	2500.2	2406.0	2307.4	2186.6	2043.8
15°	2877.2	2877.2	2838.9	2756.5	2674.0	2606.3	2600.4	2517.9	2416.3	2285.3	2130.7
17.5°	2903.7	2912.5	2871.3	2797.7	2731.4	2672.5	2671.1	2601.8	2520.9	2394.2	2219.0
20°	2893.4	2902.2	2869.8	2812.4	2766.8	2732.9	2728.5	2700.5	2625.4	2506.1	2313.2
22.5°	2871.3	2880.1	2856.6	2822.7	2800.6	2810.9	2803.6	2827.1	2787.4	2643.1	2425.1
25°	2875.7	2884.6	2866.9	2847.7	2866.9	2930.2	2949.3	3050.9	3015.6	2816.8	2545.9
27.5°	3014.1	3031.8	3006.8	3015.6	3083.3	3230.6	3267.4	3442.6	3286.5	3037.7	2734.4
30°	3321.9	3310.1	3263.0	3305.7	3541.3	3853.4	3843.1	3815.2	3570.7	3292.4	2958.2
32.5°	3601.6	3591.3	3588.4	3772.5	4199.5	4351.1	4343.8	4072.8	3825.5	3584.0	3179.1
35°	3715.0	3675.3	3666.4	4112.6	4826.7	4626.5	4580.8	4178.9	4134.7	3902.0	3404.3
37.5°	4056.6	4028.7	3891.7	4168.5	4576.4	4510.2	4474.8	4361.4	4464.5	4183.3	3659.1
40°	4760.5	4682.4	4558.8	4287.8	4221.6	4249.5	4284.9	4595.6	4854.7	4567.6	3999.2
42.5°	5635.1	5617.5	5387.7	4882.7	4386.5	4424.8	4470.4	5084.4	5415.7	5146.3	4554.3
45°	6685.0	6710.0	6378.7	5782.4	5131.5	5163.9	5230.2	5805.9	6175.5	6045.9	5427.5
47.5°	7639.1	7620.0	7508.1	6888.2	6287.4	6215.3	6322.8	6732.1	7226.9	7247.5	6511.2
50°	8599.2	8700.8	8534.4	8291.5	7845.3	7693.6	7653.9	7854.1	8608.0	8509.4	7812.9
52.5°	9978.9	10031.9	9719.7	9657.9	9759.5	9267.7	9227.9	9276.5	9950.9	9612.3	8787.7
55°	10846.2	10815.3	10698.9	11181.9	11583.9	10969.9	10919.8	10724.0	11065.6	10391.2	9725.6
57.5°	11120.1	11164.2	11435.2	12308.3	13259.5	12738.3	12647.0	12090.4	11869.5	11117.1	10588.5
60°	10997.8	11078.8	11663.4	12962.1	14281.4	14203.4	14125.4	13190.3	12446.7	11723.8	11193.7
62.5°	10127.6	10241.0	11176.0	12845.8	14627.5	15114.9	15017.7	13876.5	12831.1	12018.3	11299.7
65°	8487.3	8571.2	9914.1	11790.0	14135.7	15427.0	15391.7	14091.5	12891.4	11748.8	10573.8
67.5°	6050.4	6336.0	7580.2	9936.2	12680.9	14894.0	14954.4	13833.8	12324.5	10584.1	8756.7
70°	3803.4	3997.7	4890.1	7113.5	10165.9	13066.7	13265.4	12654.4	10696.0	8250.2	5861.9
72.5°	1814.1	1958.4	2594.5	4502.8	7175.3	10280.8	10438.3	10388.2	8270.8	5197.8	3024.4
75°	808.4	862.9	1238.3	2298.5	4632.4	6910.3	7318.2	7385.9	5168.4	2542.9	1176.5
77.5°	412.3	413.8	580.2	1113.2	2313.2	4122.9	4203.9	4441.0	2802.1	1120.5	409.3
80°	219.4	234.1	307.7	525.7	1200.1	2030.5	2020.2	2220.5	1242.8	549.2	136.9
82.5°	98.7	109.0	173.8	275.4	586.0	770.1	830.5	908.5	533.0	350.4	60.4
85°	29.4	35.3	85.4	138.4	212.0	222.3	248.8	321.0	301.9	248.8	30.9
87.5°	4.4	4.4	35.3	38.3	30.9	39.8	41.2	45.6	97.2	91.3	16.2
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°	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5
2.5°	1796.4	1786.1	1749.3	1718.4	1691.9	1675.7	1656.5	1644.7	1638.9	1634.4	1635.9
5°	1803.8	1778.7	1715.4	1665.4	1627.1	1585.8	1557.9	1541.7	1534.3	1522.5	1522.5
7.5°	1845.0	1805.2	1716.9	1640.3	1574.1	1518.1	1465.1	1446.0	1432.7	1429.8	1426.8
10°	1903.9	1853.8	1733.1	1627.1	1532.8	1456.3	1381.2	1314.9	1263.4	1232.5	1228.0
12.5°	1977.5	1905.4	1758.1	1618.2	1497.5	1362.0	1163.2	1029.3	939.4	911.5	915.9
15°	2045.3	1967.2	1783.2	1610.9	1432.7	1129.4	904.1	751.0	705.3	700.9	702.4
17.5°	2126.2	2033.5	1812.6	1600.6	1254.5	862.9	671.4	630.2	639.0	653.8	652.3
20°	2210.2	2104.2	1847.9	1538.7	1001.3	649.4	593.4	597.8	611.1	624.3	627.3
22.5°	2300.0	2185.1	1889.2	1390.0	764.2	565.4	562.5	568.4	581.6	596.3	599.3
25°	2423.7	2286.7	1920.1	1195.6	578.7	522.7	528.6	538.9	550.7	566.9	569.8
27.5°	2582.7	2423.7	1936.3	942.4	500.6	484.4	485.9	500.6	515.4	530.1	530.1
30°	2788.8	2587.1	1903.9	712.7	462.4	447.6	441.7	450.6	469.7	484.4	485.9
32.5°	2972.9	2741.7	1818.5	544.8	434.4	413.8	399.0	400.5	407.9	416.7	418.2
35°	3157.0	2891.9	1672.7	457.9	404.9	381.4	359.3	347.5	341.6	337.2	341.6
37.5°	3392.6	3078.9	1478.4	416.7	379.9	350.4	319.5	294.5	273.9	260.6	263.6
40°	3695.9	3338.1	1248.7	390.2	356.3	321.0	279.8	247.4	212.0	200.3	194.4
42.5°	4196.5	3731.2	1007.2	368.1	332.8	290.1	238.5	194.4	162.0	150.2	153.1
45°	4987.2	4227.4	776.0	344.6	309.2	256.2	200.3	153.1	126.6	120.7	123.7
47.5°	6035.6	4869.4	597.8	318.1	279.8	219.4	157.6	120.7	104.5	103.1	101.6
50°	7022.2	5467.3	499.2	288.6	244.4	182.6	129.6	101.6	91.3	89.8	89.8
52.5°	7914.5	5895.7	406.4	254.7	206.1	150.2	109.0	89.8	81.0	76.6	76.6
55°	8708.2	6175.5	329.8	213.5	162.0	119.3	94.2	81.0	70.7	64.8	63.3
57.5°	9307.5	6209.4	247.4	170.8	120.7	92.8	81.0	70.7	58.9	51.5	48.6
60°	9563.7	5916.4	182.6	129.6	89.8	73.6	64.8	57.4	44.2	36.8	35.3
62.5°	9306.0	5346.5	135.5	98.7	69.2	54.5	45.6	42.7	30.9	22.1	20.6
65°	8382.7	4523.4	107.5	75.1	51.5	39.8	29.4	28.0	19.1	10.3	8.8
67.5°	6715.9	3542.8	85.4	56.0	36.8	26.5	19.1	17.7	10.3	2.9	2.9
70°	4367.3	2264.7	69.2	41.2	23.6	17.7	11.8	8.8	5.9	1.5	0.0
72.5°	2160.1	1058.7	56.0	32.4	16.2	8.8	4.4	2.9	4.4	0.0	0.0
75°	837.8	377.0	41.2	22.1	8.8	4.4	2.9	0.0	1.5	0.0	0.0
77.5°	278.3	125.2	25.0	11.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	103.1	48.6	13.3	7.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	41.2	19.1	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.6	11.8	5.9	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	8.8	5.9	4.4	2.9	1.5	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)