

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: P454855

Luminaire Tested: **GALN-SA6A-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16331 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

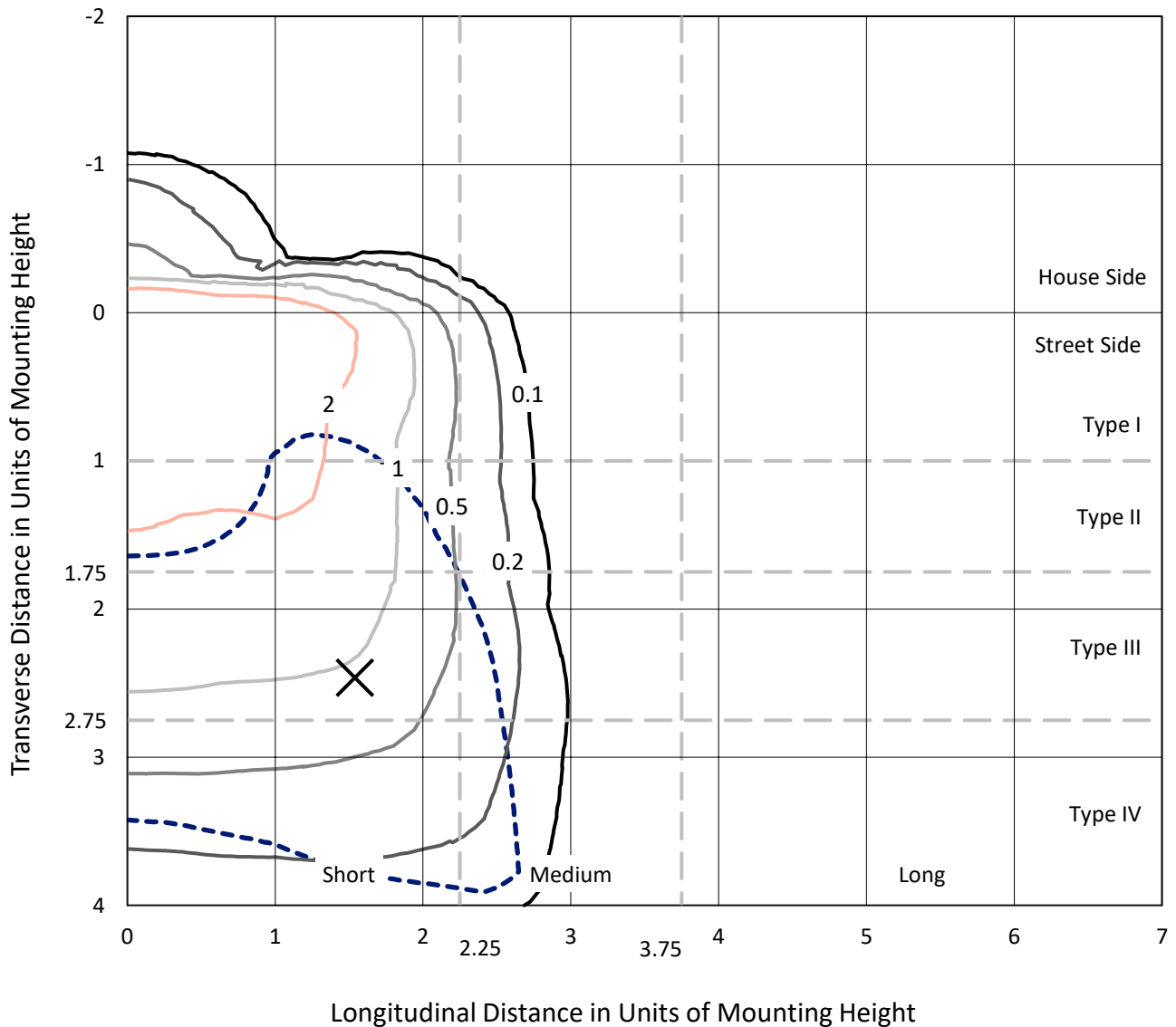
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

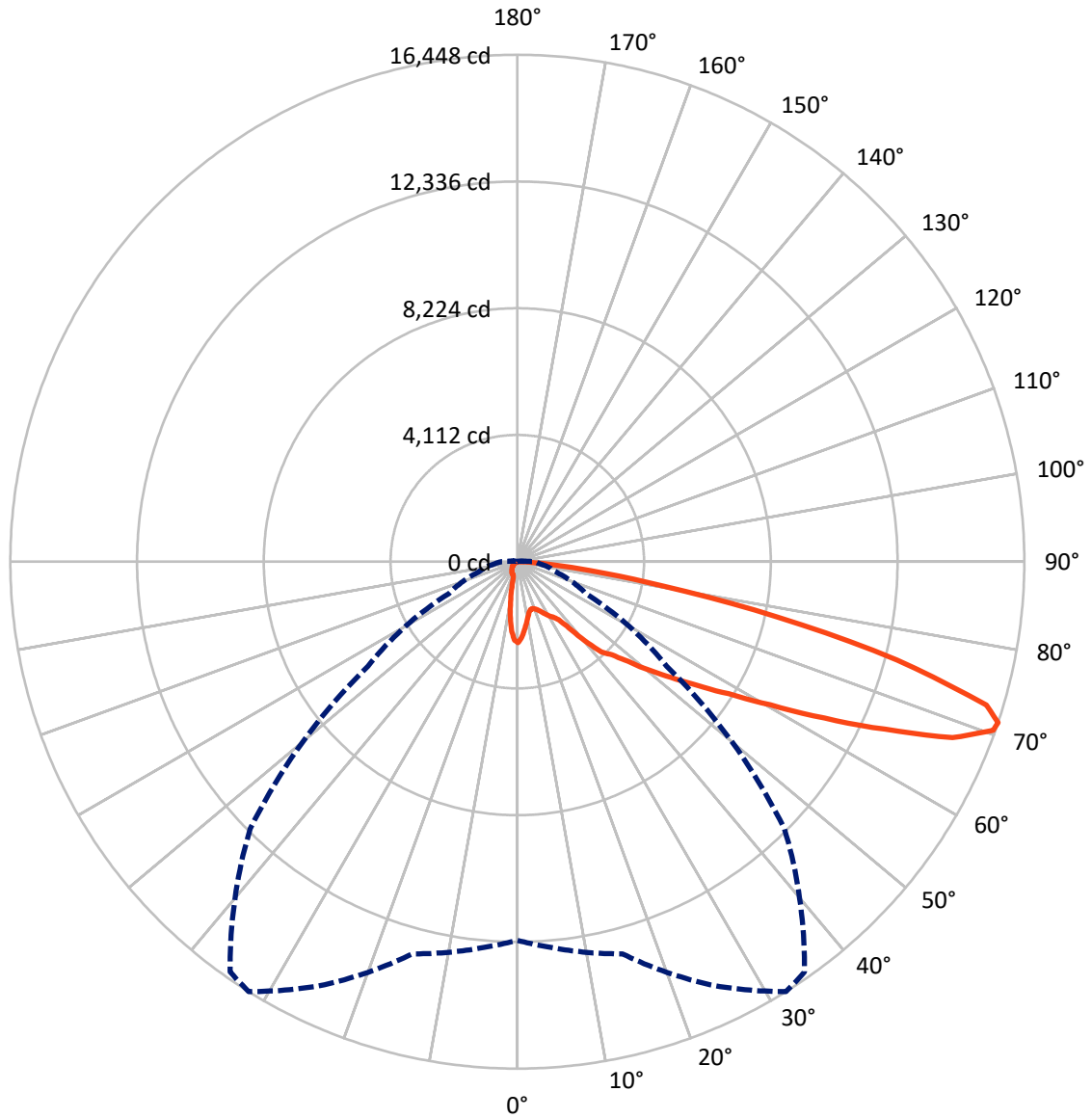
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1367.9	0.0	1367.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	14963.1	0.0	14963.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	16331.0	0.0	16331.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	1.3
10°-20°	463.5	2.8
20°-30°	721.0	4.4
30°-40°	1201.2	7.4
40°-50°	2234.5	13.7
50°-60°	3587.5	22.0
60°-70°	4825.4	29.5
70°-80°	2863.0	17.5
80°-90°	221.3	1.4
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°	16331.0	100.0
0°-180°	16331.0	100.0

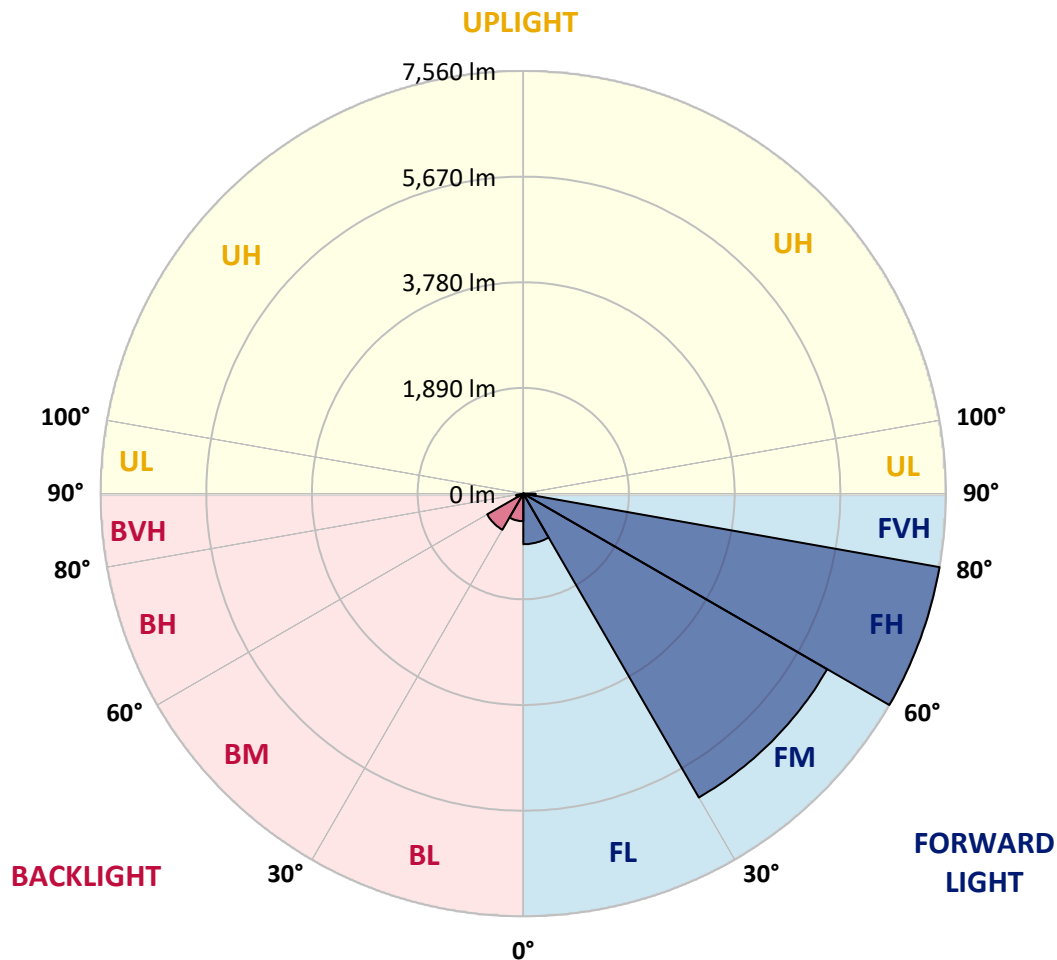


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.2	5.5			
FM (30°-60°)	6277.0	38.4			
FH (60°-80°)	7560.5	46.3			G4/12000
FVH (80°-90°)	220.4	1.3			G2/225
BL (0°-30°)	492.9	3.0	B1/500		
BM (30°-60°)	746.2	4.6	B1/1000		
BH (60°-80°)	127.9	0.8	B1/500		G1/500
BVH (80°-90°)	0.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3
2.5°	2435.7	2460.8	2457.0	2465.8	2487.1	2495.9	2519.7	2546.0	2582.4	2607.5	2623.8
5°	2181.3	2200.1	2202.6	2246.4	2267.8	2291.6	2361.8	2438.2	2523.5	2591.2	2636.3
7.5°	1909.2	1919.3	1939.3	1997.0	2050.9	2074.7	2181.3	2314.1	2448.3	2574.9	2656.4
10°	1684.8	1696.1	1732.5	1793.9	1844.0	1875.4	2023.3	2190.0	2378.1	2566.1	2685.2
12.5°	1557.0	1563.2	1577.0	1632.2	1696.1	1730.0	1889.2	2079.7	2321.7	2569.9	2734.1
15°	1548.2	1545.7	1529.4	1551.9	1609.6	1644.7	1800.2	2004.5	2271.5	2582.4	2791.8
17.5°	1594.6	1588.3	1549.4	1549.4	1597.1	1625.9	1762.6	1964.4	2246.4	2611.2	2873.2
20°	1666.0	1656.0	1592.1	1587.1	1633.4	1663.5	1785.1	1966.9	2251.5	2665.1	2982.3
22.5°	1756.3	1745.0	1648.5	1651.0	1701.1	1731.2	1850.3	2012.0	2282.8	2731.6	3098.9
25°	1874.1	1861.6	1747.5	1742.5	1795.1	1821.5	1946.8	2092.2	2326.7	2814.3	3251.8
27.5°	2030.8	2004.5	1867.9	1860.3	1916.7	1950.6	2063.4	2200.1	2404.4	2928.4	3457.4
30°	2159.9	2131.1	2000.7	1980.7	2040.9	2067.2	2183.8	2345.5	2557.3	3127.7	3742.0
32.5°	2329.2	2286.6	2133.6	2081.0	2144.9	2178.7	2358.0	2616.3	2784.2	3338.3	4080.4
35°	2710.3	2683.9	2497.2	2312.9	2309.1	2351.7	2615.0	2889.5	3017.4	3666.8	4541.8
37.5°	3255.6	3236.8	3038.7	2791.8	2720.3	2700.2	2927.1	3190.4	3389.7	4118.1	5078.3
40°	3888.6	3844.8	3663.0	3453.7	3360.9	3302.0	3295.7	3637.9	3876.1	4731.1	5637.4
42.5°	4342.5	4262.2	4041.6	4026.5	4006.5	3945.1	3767.1	4292.3	4504.2	5390.5	6235.4
45°	4818.8	4697.2	4368.8	4312.4	4304.8	4301.1	4479.1	5067.0	5188.6	6105.0	6849.6
47.5°	5188.6	5092.1	4822.6	4797.5	4828.8	4914.1	5420.5	5889.4	5864.3	6741.8	7364.9
50°	5681.3	5608.6	5309.0	5356.6	5518.3	5657.5	6482.3	6785.7	6419.7	7243.3	7739.7
52.5°	6263.0	6128.8	5850.5	5979.6	6227.9	6459.8	7609.3	7570.5	6809.5	7620.6	8019.2
55°	6766.9	6671.6	6576.4	6710.5	7081.6	7371.1	8627.2	8158.4	7092.8	7924.0	8142.1
57.5°	7619.3	7596.8	7499.0	7635.6	8085.7	8386.5	9538.6	8614.7	7274.6	8081.9	7997.9
60°	8880.5	8844.1	8662.3	8836.6	9423.3	9895.9	10378.5	9024.6	7316.0	8020.5	7583.0
62.5°	10397.3	10273.2	10117.8	10374.7	11179.6	11387.6	11169.5	9267.8	7161.8	7531.6	6582.6
65°	11813.9	11686.0	11689.8	12231.3	13107.6	13249.2	12092.2	9231.5	6710.5	6306.8	4855.2
67.5°	12898.2	12876.9	13029.9	14086.6	15232.4	15134.6	12917.0	8687.4	5372.9	4088.0	2579.9
70°	12953.4	12994.8	13433.5	15217.4	16380.7	16225.3	12846.8	7061.5	3349.6	1880.4	1016.7
71°	12286.5	12564.8	13171.5	15182.3	16448.4	16246.6	12255.1	5914.5	2457.0	1311.3	733.4
72.5°	10470.0	10616.7	11927.9	14288.5	15913.1	15481.9	10754.6	4145.6	1573.3	802.3	421.2
75°	5766.5	6127.6	7987.9	11209.6	12727.7	12349.2	7008.8	1969.4	784.7	438.8	174.2
77.5°	2745.4	2675.2	3897.4	6666.6	8629.7	8609.7	3531.4	875.0	457.6	297.1	87.8
80°	784.7	882.5	1491.8	3169.1	4791.2	4843.9	1356.4	422.5	317.2	231.9	45.1
82.5°	236.9	241.9	547.8	1401.5	2383.1	2246.4	509.0	215.6	228.2	184.3	26.3
85°	41.4	51.4	161.7	493.9	908.9	689.5	127.9	102.8	150.4	121.6	15.0
87.5°	2.5	3.8	53.9	56.4	80.2	46.4	22.6	15.0	32.6	32.6	8.8
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°	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3	2626.3
2.5°	2635.1	2642.6	2637.6	2626.3	2607.5	2584.9	2554.8	2529.8	2508.4	2497.2	2510.9
5°	2651.4	2661.4	2636.3	2579.9	2494.7	2401.9	2296.6	2215.1	2151.2	2131.1	2123.6
7.5°	2676.4	2682.7	2615.0	2489.6	2309.1	2089.7	1897.9	1736.2	1610.9	1573.3	1518.1
10°	2709.0	2705.3	2577.4	2344.2	2027.1	1697.4	1400.3	1179.6	1012.9	952.7	947.7
12.5°	2759.2	2739.1	2529.8	2146.2	1691.1	1259.9	892.6	698.3	593.0	557.8	550.3
15°	2821.8	2774.2	2454.5	1914.2	1295.0	813.6	550.3	491.4	477.6	475.1	472.6
17.5°	2895.8	2820.6	2355.5	1629.7	910.1	527.8	460.1	458.8	460.1	457.6	456.3
20°	2996.1	2869.5	2237.7	1292.5	601.7	445.0	438.8	438.8	440.0	438.8	438.8
22.5°	3102.6	2927.1	2092.2	986.6	453.8	422.5	421.2	423.7	426.2	425.0	425.0
25°	3234.3	3002.4	1900.4	675.7	406.2	403.7	404.9	409.9	414.9	416.2	414.9
27.5°	3424.8	3095.1	1694.9	465.1	372.3	374.8	387.4	399.9	407.4	408.7	408.7
30°	3639.2	3197.9	1426.6	377.3	344.7	344.7	359.8	383.6	399.9	402.4	403.7
32.5°	3915.0	3317.0	1129.5	339.7	318.4	315.9	329.7	358.5	388.6	397.4	397.4
35°	4256.0	3457.4	839.9	315.9	299.6	293.3	300.9	324.7	363.5	388.6	391.1
37.5°	4655.8	3590.3	614.3	294.6	282.1	273.3	278.3	297.1	328.4	366.0	376.1
40°	5025.7	3708.1	458.8	277.0	264.5	258.2	262.0	270.8	297.1	332.2	338.5
42.5°	5429.3	3799.6	364.8	258.2	247.0	244.5	244.5	248.2	265.8	285.8	287.1
45°	5831.7	3832.2	305.9	235.7	228.2	230.7	229.4	226.9	234.4	231.9	231.9
47.5°	6118.8	3793.4	253.2	214.4	214.4	218.1	211.9	203.1	199.3	184.3	185.5
50°	6315.6	3651.7	208.1	189.3	199.3	204.3	191.8	178.0	164.2	147.9	144.2
52.5°	6397.1	3399.7	170.5	156.7	176.8	183.0	168.0	151.7	130.4	116.6	112.8
55°	6344.4	3088.9	141.7	127.9	149.2	156.7	141.7	122.9	99.0	84.0	81.5
57.5°	6112.5	2717.8	120.3	101.5	119.1	124.1	114.1	94.0	70.2	55.2	55.2
60°	5711.4	2334.2	97.8	80.2	89.0	96.5	86.5	67.7	47.6	33.8	31.3
62.5°	4897.8	1895.4	79.0	62.7	62.7	68.9	60.2	48.9	30.1	17.6	16.3
65°	3536.4	1300.0	62.7	46.4	45.1	45.1	37.6	32.6	17.6	7.5	5.0
67.5°	1921.8	733.4	50.1	35.1	31.3	30.1	23.8	18.8	7.5	1.3	0.0
70°	755.9	282.1	38.9	23.8	20.1	18.8	12.5	8.8	5.0	0.0	0.0
71°	512.7	194.3	33.8	20.1	16.3	13.8	10.0	7.5	3.8	0.0	0.0
72.5°	293.3	120.3	26.3	15.0	12.5	10.0	7.5	5.0	3.8	0.0	0.0
75°	127.9	61.4	16.3	11.3	8.8	6.3	5.0	3.8	1.3	0.0	0.0
77.5°	65.2	33.8	11.3	8.8	5.0	3.8	2.5	1.3	0.0	0.0	0.0
80°	36.4	17.6	7.5	5.0	3.8	2.5	1.3	1.3	0.0	0.0	0.0
82.5°	20.1	10.0	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.5	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	2.5	0.0	0.0	0.0	0.0	1.3	1.3	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)