

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: P453956

Luminaire Tested: **GALN-SA5A-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453956
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-SA5A-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 15019 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

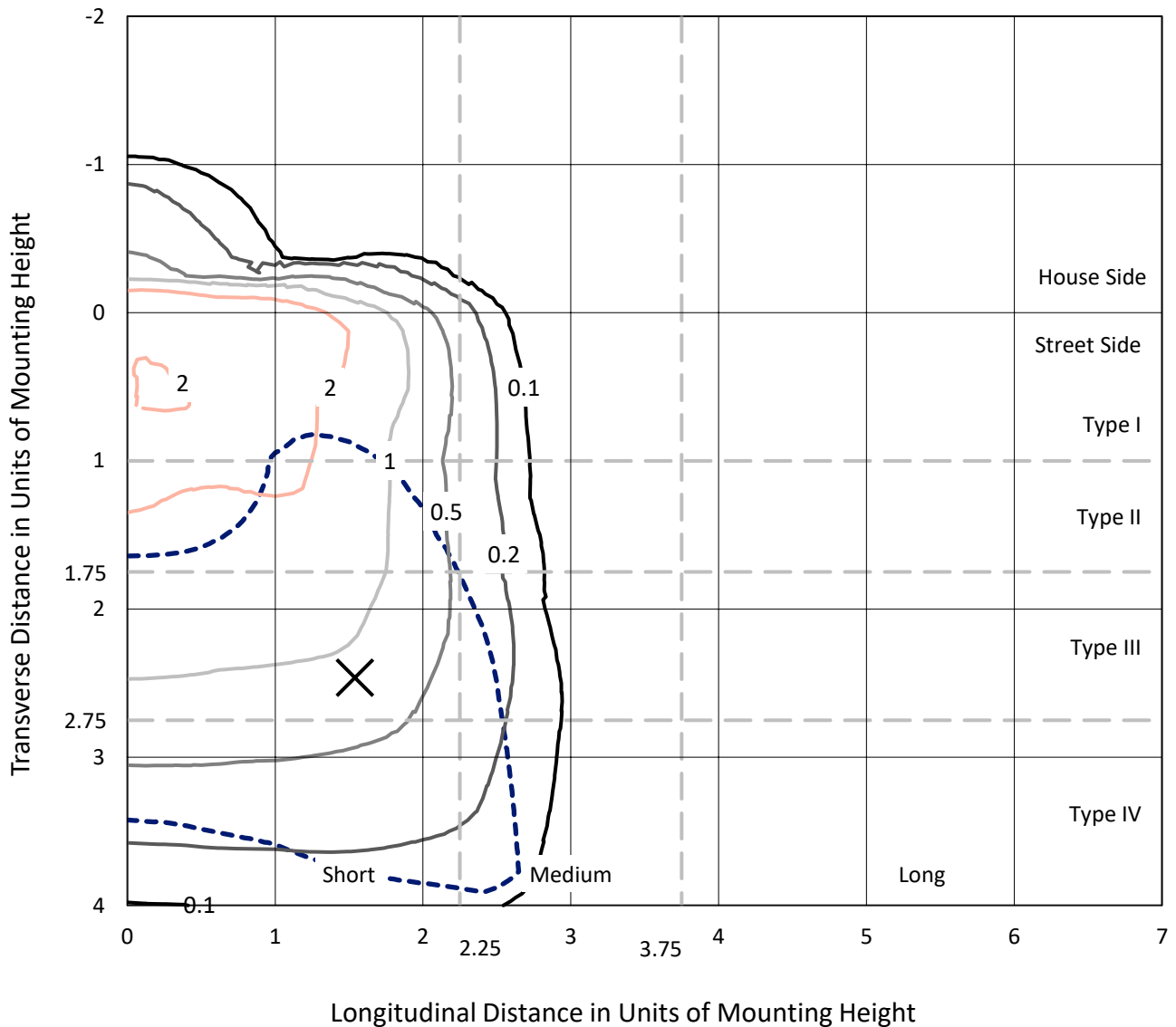
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

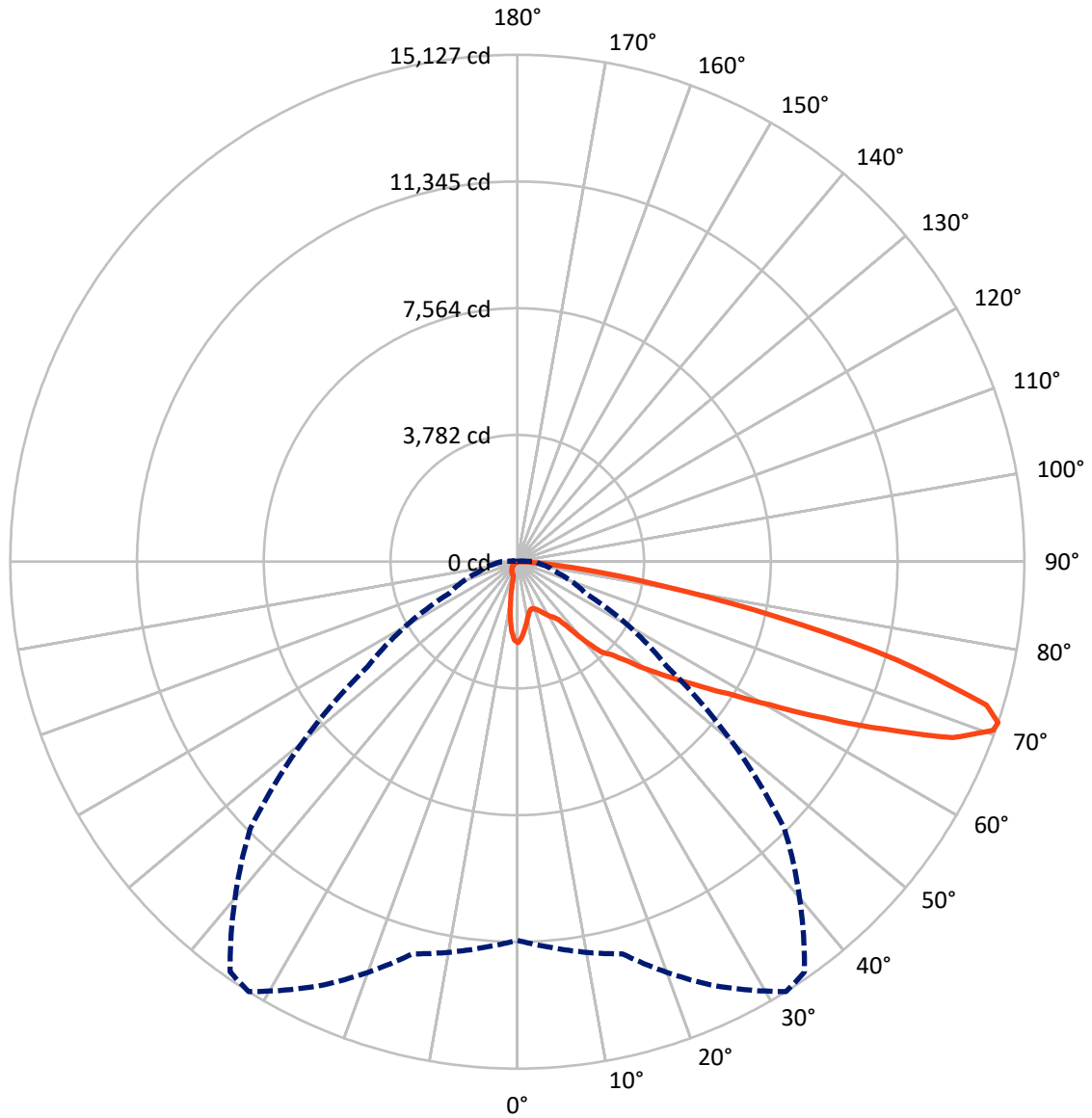
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1258.0	0.0	1258.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13761.0	0.0	13761.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	15019.0	0.0	15019.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	1.3
10°-20°	426.2	2.8
20°-30°	663.1	4.4
30°-40°	1104.7	7.4
40°-50°	2055.0	13.7
50°-60°	3299.3	22.0
60°-70°	4437.7	29.5
70°-80°	2633.0	17.5
80°-90°	203.5	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°	15019.0	100.0
0°-180°	15019.0	100.0



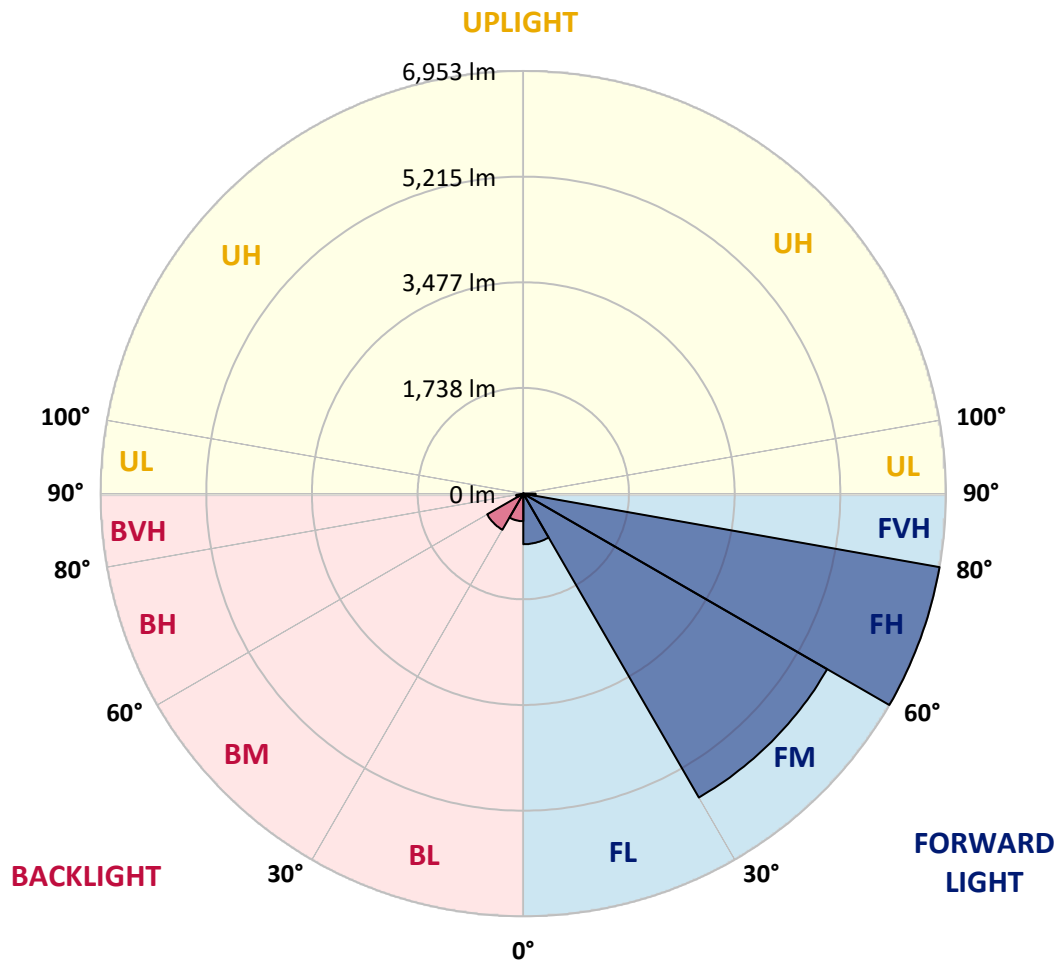
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.5	5.5			
FM (30°-60°)	5772.8	38.4			
FH (60°-80°)	6953.1	46.3			G3/7500
FVH (80°-90°)	202.7	1.3			G2/225
BL (0°-30°)	453.3	3.0	B1/500		
BM (30°-60°)	686.3	4.6	B1/1000		
BH (60°-80°)	117.7	0.8	B1/500		G1/500
BVH (80°-90°)	0.8	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3
2.5°	2240.1	2263.1	2259.7	2267.7	2287.3	2295.4	2317.3	2341.5	2374.9	2398.0	2413.0
5°	2006.0	2023.3	2025.6	2066.0	2085.6	2107.5	2172.0	2242.4	2320.8	2383.0	2424.5
7.5°	1755.8	1765.1	1783.5	1836.5	1886.1	1908.0	2006.0	2128.2	2251.6	2368.0	2443.0
10°	1549.5	1559.9	1593.3	1649.8	1695.9	1724.7	1860.8	2014.1	2187.0	2360.0	2469.5
12.5°	1431.9	1437.6	1450.3	1501.1	1559.9	1591.0	1737.4	1912.6	2135.1	2363.4	2514.4
15°	1423.8	1421.5	1406.5	1427.3	1480.3	1512.6	1655.5	1843.5	2089.0	2374.9	2567.5
17.5°	1466.5	1460.7	1425.0	1425.0	1468.8	1495.3	1621.0	1806.6	2066.0	2401.5	2642.4
20°	1532.2	1523.0	1464.2	1459.5	1502.2	1529.9	1641.7	1808.9	2070.6	2451.0	2742.7
22.5°	1615.2	1604.8	1516.0	1518.3	1564.5	1592.1	1701.7	1850.4	2099.4	2512.1	2849.9
25°	1723.6	1712.0	1607.1	1602.5	1650.9	1675.1	1790.4	1924.2	2139.8	2588.2	2990.6
27.5°	1867.7	1843.5	1717.8	1710.9	1762.8	1793.9	1897.6	2023.3	2211.2	2693.1	3179.7
30°	1986.4	1959.9	1840.0	1821.6	1876.9	1901.1	2008.3	2157.0	2351.9	2876.4	3441.4
32.5°	2142.1	2102.9	1962.2	1913.8	1972.6	2003.7	2168.6	2406.1	2560.6	3070.1	3752.6
35°	2492.5	2468.3	2296.5	2127.1	2123.6	2162.8	2404.9	2657.4	2775.0	3372.2	4176.9
37.5°	2994.0	2976.7	2794.6	2567.5	2501.8	2483.3	2692.0	2934.1	3117.4	3787.2	4670.3
40°	3576.2	3535.9	3368.7	3176.2	3090.9	3036.7	3030.9	3345.7	3564.7	4351.0	5184.5
42.5°	3993.6	3919.8	3716.9	3703.1	3684.6	3628.1	3464.4	3947.5	4142.3	4957.4	5734.4
45°	4431.7	4319.9	4017.8	3965.9	3959.0	3955.5	4119.3	4660.0	4771.8	5614.5	6299.4
47.5°	4771.8	4683.0	4435.1	4412.1	4440.9	4519.3	4985.1	5416.2	5393.2	6200.2	6773.2
50°	5224.9	5158.0	4882.5	4926.3	5075.0	5203.0	5961.6	6240.6	5903.9	6661.4	7117.9
52.5°	5759.8	5636.4	5380.5	5499.3	5727.5	5940.8	6998.0	6962.3	6262.5	7008.4	7375.0
55°	6223.3	6135.6	6048.0	6171.4	6512.6	6779.0	7934.1	7503.0	6523.0	7287.4	7488.0
57.5°	7007.2	6986.5	6896.5	7022.2	7436.1	7712.8	8772.3	7922.6	6690.2	7432.6	7355.4
60°	8167.0	8133.6	7966.4	8126.7	8666.2	9100.9	9544.7	8299.6	6728.2	7376.1	6973.8
62.5°	9562.0	9447.9	9304.9	9541.3	10281.4	10472.8	10272.2	8523.3	6586.4	6926.5	6053.8
65°	10864.8	10747.2	10750.6	11248.7	12054.5	12184.8	11120.7	8489.8	6171.4	5800.2	4465.1
67.5°	11862.0	11842.4	11983.1	12954.9	14008.7	13918.8	11879.3	7989.5	4941.3	3759.6	2372.6
70°	11912.7	11950.8	12354.3	13994.8	15064.7	14921.8	11814.7	6494.2	3080.5	1729.3	935.0
71°	11299.4	11555.3	12113.3	13962.6	15127.0	14941.4	11270.6	5439.3	2259.7	1205.9	674.4
72.5°	9628.9	9763.8	10969.7	13140.6	14634.7	14238.1	9890.6	3812.6	1446.9	737.8	387.4
75°	5303.3	5635.3	7346.2	10309.1	11705.2	11357.1	6445.8	1811.2	721.7	403.5	160.3
77.5°	2524.8	2460.3	3584.3	6131.0	7936.4	7918.0	3247.7	804.7	420.8	273.2	80.7
80°	721.7	811.6	1371.9	2914.5	4406.3	4454.7	1247.4	388.5	291.7	213.3	41.5
82.5°	217.9	222.5	503.8	1288.9	2191.6	2066.0	468.1	198.3	209.8	169.5	24.2
85°	38.0	47.3	148.7	454.2	835.8	634.1	117.6	94.5	138.3	111.8	13.8
87.5°	2.3	3.5	49.6	51.9	73.8	42.7	20.8	13.8	30.0	30.0	8.1
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°	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3	2415.3
2.5°	2423.4	2430.3	2425.7	2415.3	2398.0	2377.2	2349.6	2326.5	2306.9	2296.5	2309.2
5°	2438.3	2447.6	2424.5	2372.6	2294.2	2208.9	2112.1	2037.1	1978.3	1959.9	1953.0
7.5°	2461.4	2467.2	2404.9	2289.6	2123.6	1921.9	1745.5	1596.7	1481.5	1446.9	1396.1
10°	2491.4	2487.9	2370.3	2155.9	1864.2	1561.0	1287.8	1084.9	931.5	876.2	871.6
12.5°	2537.5	2519.0	2326.5	1973.7	1555.2	1158.6	820.9	642.2	545.3	513.0	506.1
15°	2595.1	2551.3	2257.3	1760.5	1190.9	748.2	506.1	451.9	439.2	436.9	434.6
17.5°	2663.2	2594.0	2166.3	1498.7	837.0	485.4	423.1	422.0	423.1	420.8	419.6
20°	2755.4	2638.9	2057.9	1188.6	553.4	409.3	403.5	403.5	404.7	403.5	403.5
22.5°	2853.4	2692.0	1924.2	907.3	417.3	388.5	387.4	389.7	392.0	390.8	390.8
25°	2974.4	2761.2	1747.8	621.4	373.5	371.2	372.4	377.0	381.6	382.8	381.6
27.5°	3149.7	2846.5	1558.7	427.7	342.4	344.7	356.2	367.8	374.7	375.8	375.8
30°	3346.8	2941.0	1312.0	347.0	317.0	317.0	330.9	352.8	367.8	370.1	371.2
32.5°	3600.5	3050.5	1038.7	312.4	292.8	290.5	303.2	329.7	357.4	365.5	365.5
35°	3914.0	3179.7	772.4	290.5	275.5	269.8	276.7	298.6	334.3	357.4	359.7
37.5°	4281.8	3301.9	564.9	270.9	259.4	251.3	255.9	273.2	302.1	336.6	345.9
40°	4621.9	3410.2	422.0	254.8	243.3	237.5	241.0	249.0	273.2	305.5	311.3
42.5°	4993.1	3494.4	335.5	237.5	227.1	224.8	224.8	228.3	244.4	262.9	264.0
45°	5363.2	3524.4	281.3	216.7	209.8	212.1	211.0	208.7	215.6	213.3	213.3
47.5°	5627.2	3488.6	232.9	197.1	197.1	200.6	194.8	186.8	183.3	169.5	170.6
50°	5808.2	3358.3	191.4	174.1	183.3	187.9	176.4	163.7	151.0	136.0	132.6
52.5°	5883.2	3126.6	156.8	144.1	162.6	168.3	154.5	139.5	119.9	107.2	103.8
55°	5834.7	2840.7	130.3	117.6	137.2	144.1	130.3	113.0	91.1	77.2	74.9
57.5°	5621.5	2499.5	110.7	93.4	109.5	114.1	104.9	86.5	64.6	50.7	50.7
60°	5252.5	2146.7	89.9	73.8	81.9	88.8	79.5	62.3	43.8	31.1	28.8
62.5°	4504.3	1743.2	72.6	57.6	57.6	63.4	55.3	45.0	27.7	16.1	15.0
65°	3252.3	1195.5	57.6	42.7	41.5	41.5	34.6	30.0	16.1	6.9	4.6
67.5°	1767.4	674.4	46.1	32.3	28.8	27.7	21.9	17.3	6.9	1.2	0.0
70°	695.2	259.4	35.7	21.9	18.4	17.3	11.5	8.1	4.6	0.0	0.0
71°	471.5	178.7	31.1	18.4	15.0	12.7	9.2	6.9	3.5	0.0	0.0
72.5°	269.8	110.7	24.2	13.8	11.5	9.2	6.9	4.6	3.5	0.0	0.0
75°	117.6	56.5	15.0	10.4	8.1	5.8	4.6	3.5	1.2	0.0	0.0
77.5°	59.9	31.1	10.4	8.1	4.6	3.5	2.3	1.2	0.0	0.0	0.0
80°	33.4	16.1	6.9	4.6	3.5	2.3	1.2	1.2	0.0	0.0	0.0
82.5°	18.4	9.2	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.5	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.3	0.0	0.0	0.0	0.0	1.2	1.2	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)