

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: P648459

Luminaire Tested: **GALN-SA5B-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648459
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-SA5B-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA 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: 16066.4 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

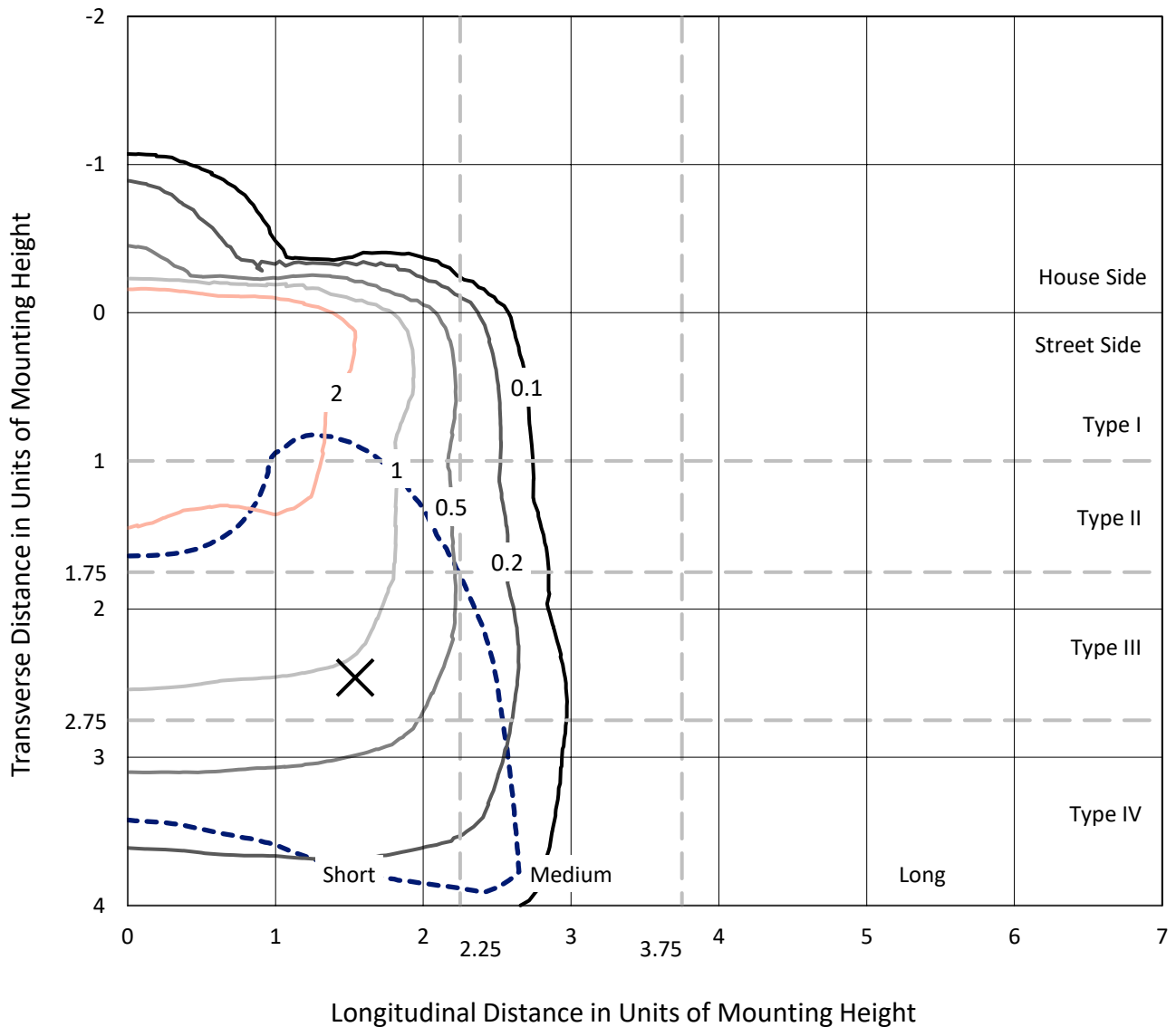
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

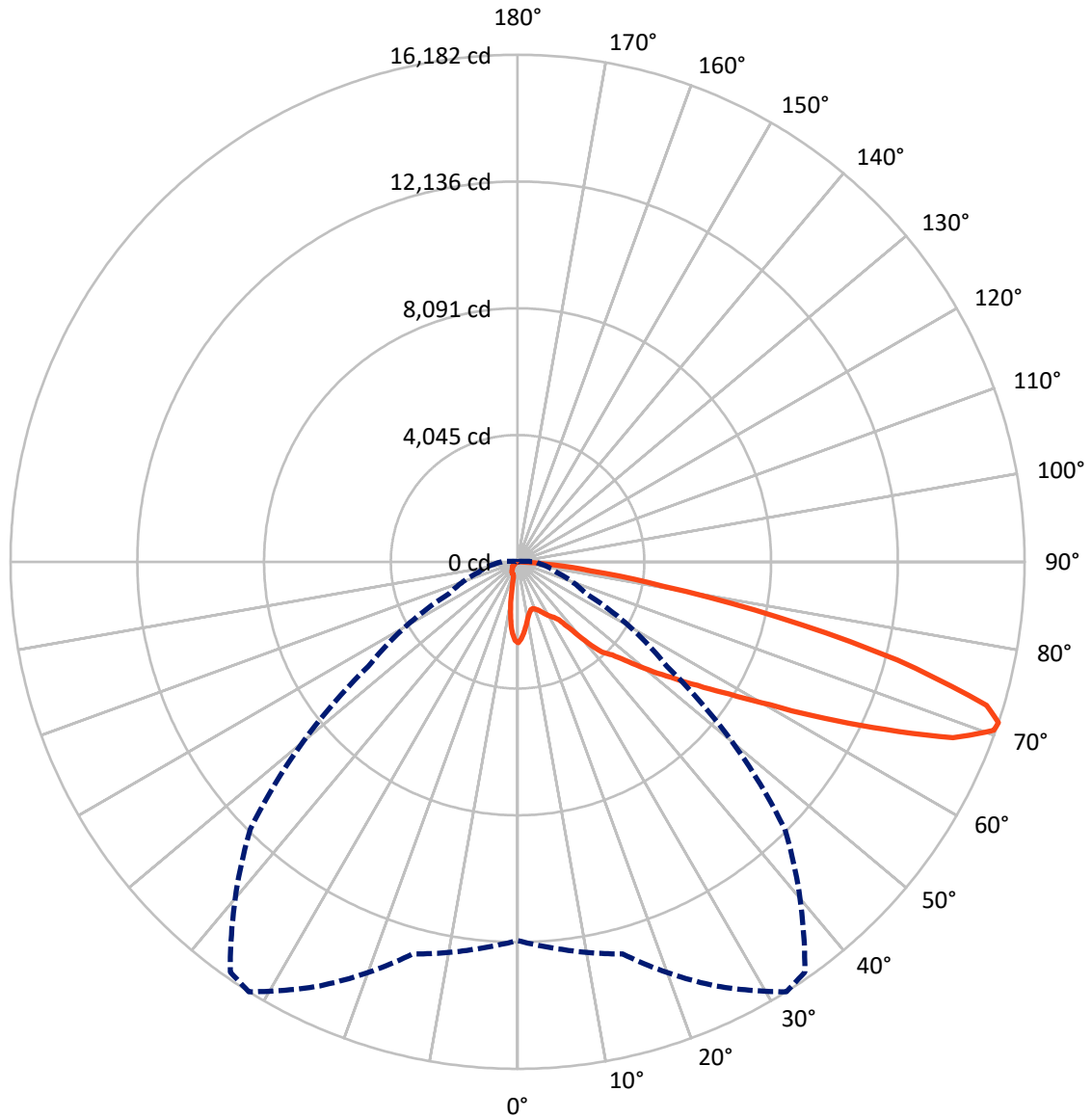
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	1345.7	0.0	1345.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	14720.6	0.0	14720.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	16066.4	0.0	16066.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.1	1.3
10°-20°	456.0	2.8
20°-30°	709.3	4.4
30°-40°	1181.8	7.4
40°-50°	2198.3	13.7
50°-60°	3529.4	22.0
60°-70°	4747.2	29.5
70°-80°	2816.6	17.5
80°-90°	217.7	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°	16066.4	100.0
0°-180°	16066.4	100.0

Coefficient of Utilization



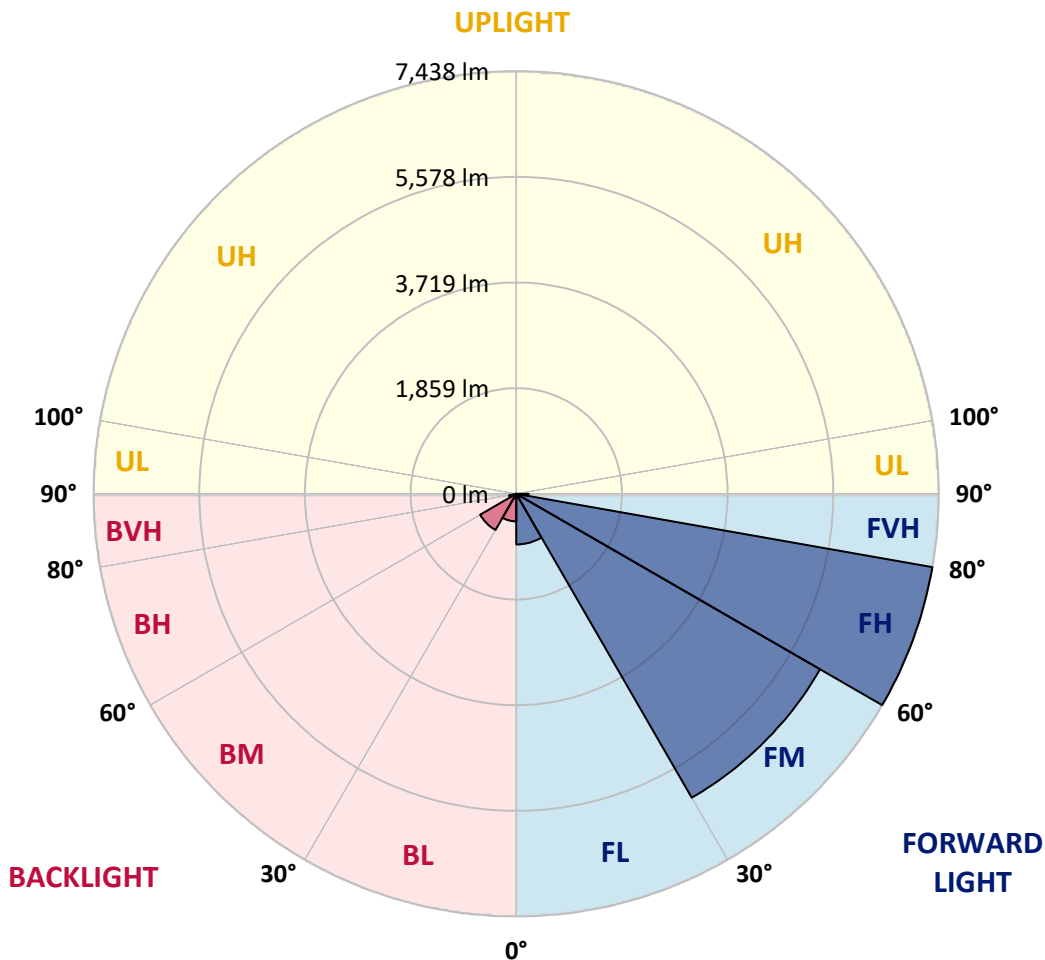
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.5	5.5			
FM (30°-60°)	6175.3	38.4			
FH (60°-80°)	7437.9	46.3			G3/7500
FVH (80°-90°)	216.9	1.3			G2/225
BL (0°-30°)	484.9	3.0	B1/500		
BM (30°-60°)	734.1	4.6	B1/1000		
BH (60°-80°)	125.9	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7
2.5°	2396.3	2421.0	2417.2	2425.9	2446.8	2455.5	2478.9	2504.8	2540.5	2565.2	2581.2
5°	2145.9	2164.4	2166.9	2210.0	2231.0	2254.4	2323.5	2398.7	2482.6	2549.2	2593.6
7.5°	1878.3	1888.1	1907.9	1964.6	2017.6	2041.0	2145.9	2276.7	2408.6	2533.2	2613.3
10°	1657.5	1668.7	1704.4	1764.8	1814.1	1845.0	1990.5	2154.6	2339.5	2524.5	2641.7
12.5°	1531.7	1537.9	1551.4	1605.7	1668.7	1701.9	1858.5	2046.0	2284.0	2528.2	2689.8
15°	1523.1	1520.7	1504.6	1526.8	1583.5	1618.1	1771.0	1972.0	2234.7	2540.5	2746.5
17.5°	1568.7	1562.6	1524.3	1524.3	1571.2	1599.6	1734.0	1932.5	2210.0	2568.9	2826.7
20°	1639.1	1629.2	1566.2	1561.3	1607.0	1636.5	1756.2	1935.0	2215.0	2622.0	2934.0
22.5°	1727.8	1716.7	1621.7	1624.3	1673.6	1703.2	1820.3	1979.4	2245.8	2687.3	3048.7
25°	1843.7	1831.4	1719.2	1714.2	1766.1	1792.0	1915.3	2058.4	2288.9	2768.7	3199.1
27.5°	1997.9	1972.0	1837.6	1830.2	1885.7	1919.0	2030.0	2164.4	2365.4	2881.0	3401.4
30°	2124.9	2096.6	1968.3	1948.6	2007.8	2033.7	2148.4	2307.5	2515.9	3077.0	3681.4
32.5°	2291.4	2249.5	2099.1	2047.2	2110.1	2143.5	2319.8	2573.9	2739.1	3284.2	4014.4
35°	2666.3	2640.4	2456.7	2275.4	2271.7	2313.6	2572.6	2842.7	2968.5	3607.4	4468.2
37.5°	3202.9	3184.3	2989.5	2746.5	2676.2	2656.5	2879.7	3138.7	3334.8	4051.3	4996.0
40°	3825.7	3782.4	3603.7	3397.7	3306.5	3248.4	3242.3	3579.0	3813.3	4654.4	5546.1
42.5°	4272.0	4193.1	3976.1	3961.3	3941.5	3881.2	3706.0	4222.7	4431.2	5303.1	6134.3
45°	4740.8	4621.1	4298.0	4242.5	4235.1	4231.4	4406.5	4984.9	5104.5	6006.1	6738.7
47.5°	5104.5	5009.6	4744.4	4719.8	4750.6	4834.5	5332.7	5794.0	5769.3	6632.6	7245.5
50°	5589.2	5517.7	5222.9	5269.8	5428.9	5565.8	6377.3	6675.8	6315.6	7125.9	7614.3
52.5°	6161.5	6029.5	5755.8	5882.8	6127.0	6355.1	7486.0	7447.8	6699.2	7497.1	7889.3
55°	6657.2	6563.5	6469.8	6601.8	6966.8	7251.7	8487.4	8026.2	6977.9	7795.5	8010.2
57.5°	7495.9	7473.7	7377.5	7511.9	7954.7	8250.6	9384.0	8475.1	7156.7	7951.0	7868.4
60°	8736.6	8700.8	8521.9	8693.4	9270.6	9735.5	10210.3	8878.4	7197.4	7890.5	7460.1
62.5°	10228.8	10106.7	9953.8	10206.6	10998.4	11203.2	10988.5	9117.6	7045.7	7409.5	6476.0
65°	11622.5	11496.6	11500.3	12033.1	12895.2	13034.5	11896.2	9081.9	6601.8	6204.6	4776.5
67.5°	12689.2	12668.2	12818.7	13858.4	14985.6	14889.4	12707.7	8546.6	5285.9	4021.7	2538.1
70°	12743.5	12784.2	13215.9	14970.8	16115.3	15962.4	12638.6	6947.1	3295.3	1849.9	1000.2
71°	12087.4	12361.1	12958.1	14936.3	16181.9	15983.3	12056.6	5818.6	2417.2	1290.0	721.5
72.5°	10300.4	10444.7	11734.7	14057.0	15655.3	15231.0	10580.3	4078.5	1547.8	789.3	414.4
75°	5673.1	6028.3	7858.5	11028.0	12521.5	12149.0	6895.3	1937.5	772.0	431.7	171.4
77.5°	2700.9	2631.8	3834.3	6558.6	8489.9	8470.2	3474.2	860.8	450.1	292.3	86.4
80°	772.0	868.3	1467.6	3117.7	4713.6	4765.4	1334.4	415.6	312.0	228.2	44.4
82.5°	233.1	238.0	538.9	1378.8	2344.5	2210.0	500.7	212.1	224.5	181.3	25.9
85°	40.7	50.6	159.1	485.9	894.1	678.3	125.8	101.2	148.0	119.6	14.8
87.5°	2.5	3.7	53.0	55.5	78.9	45.6	22.2	14.8	32.1	32.1	8.6
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°	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7
2.5°	2592.4	2599.8	2594.9	2583.7	2565.2	2543.0	2513.4	2488.8	2467.8	2456.7	2470.3
5°	2608.4	2618.3	2593.6	2538.1	2454.2	2362.9	2259.3	2179.2	2116.3	2096.6	2089.2
7.5°	2633.1	2639.3	2572.6	2449.3	2271.7	2055.8	1867.2	1708.1	1584.8	1547.8	1493.5
10°	2665.1	2661.4	2535.6	2306.2	1994.2	1669.8	1377.6	1160.5	996.5	937.3	932.4
12.5°	2714.4	2694.7	2488.8	2111.4	1663.7	1239.4	878.1	686.9	583.3	548.8	541.4
15°	2776.1	2729.2	2414.8	1883.2	1273.9	800.4	541.4	483.4	469.9	467.5	464.9
17.5°	2848.9	2774.9	2317.4	1603.3	895.4	519.2	452.7	451.4	452.7	450.1	448.9
20°	2947.5	2822.9	2201.4	1271.5	591.9	437.9	431.7	431.7	432.9	431.7	431.7
22.5°	3052.4	2879.7	2058.4	970.6	446.5	415.6	414.4	416.9	419.3	418.0	418.0
25°	3181.9	2953.7	1869.6	664.8	399.6	397.1	398.3	403.2	408.2	409.4	408.2
27.5°	3369.3	3045.0	1667.4	457.6	366.3	368.7	381.1	393.4	400.8	402.1	402.1
30°	3580.2	3146.1	1403.4	371.2	339.1	339.1	353.9	377.4	393.4	395.9	397.1
32.5°	3851.5	3263.2	1111.2	334.2	313.3	310.8	324.3	352.7	382.3	391.0	391.0
35°	4187.0	3401.4	826.3	310.8	294.7	288.6	296.0	319.4	357.7	382.3	384.8
37.5°	4580.4	3532.1	604.3	289.8	277.5	268.9	273.8	292.3	323.1	360.1	370.0
40°	4944.3	3648.1	451.4	272.6	260.2	254.1	257.8	266.4	292.3	326.8	333.0
42.5°	5341.3	3738.0	358.8	254.1	243.0	240.5	240.5	244.2	261.4	281.2	282.4
45°	5737.2	3770.1	300.9	231.8	224.5	226.9	225.7	223.2	230.6	228.2	228.2
47.5°	6019.6	3731.9	249.2	210.9	210.9	214.6	208.4	199.8	196.1	181.3	182.5
50°	6213.3	3592.6	204.8	186.2	196.1	201.0	188.7	175.2	161.5	145.6	141.8
52.5°	6293.4	3344.7	167.7	154.2	173.9	180.1	165.3	149.2	128.3	114.7	111.0
55°	6241.6	3038.8	139.4	125.8	146.7	154.2	139.4	120.9	97.4	82.6	80.2
57.5°	6013.5	2673.8	118.4	99.9	117.1	122.1	112.2	92.5	69.1	54.3	54.3
60°	5618.8	2296.4	96.2	78.9	87.5	95.0	85.1	66.6	46.9	33.3	30.9
62.5°	4818.4	1864.7	77.7	61.7	61.7	67.8	59.2	48.1	29.6	17.3	16.1
65°	3479.1	1278.9	61.7	45.6	44.4	44.4	37.0	32.1	17.3	7.4	4.9
67.5°	1890.6	721.5	49.3	34.5	30.9	29.6	23.4	18.5	7.4	1.3	0.0
70°	743.7	277.5	38.2	23.4	19.7	18.5	12.4	8.6	4.9	0.0	0.0
71°	504.4	191.1	33.3	19.7	16.1	13.5	9.9	7.4	3.7	0.0	0.0
72.5°	288.6	118.4	25.9	14.8	12.4	9.9	7.4	4.9	3.7	0.0	0.0
75°	125.8	60.4	16.1	11.1	8.6	6.2	4.9	3.7	1.3	0.0	0.0
77.5°	64.1	33.3	11.1	8.6	4.9	3.7	2.5	1.3	0.0	0.0	0.0
80°	35.8	17.3	7.4	4.9	3.7	2.5	1.3	1.3	0.0	0.0	0.0
82.5°	19.7	9.9	3.7	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	6.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	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)