

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: P453049

Luminaire Tested: **GALN-SA4A-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13524 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

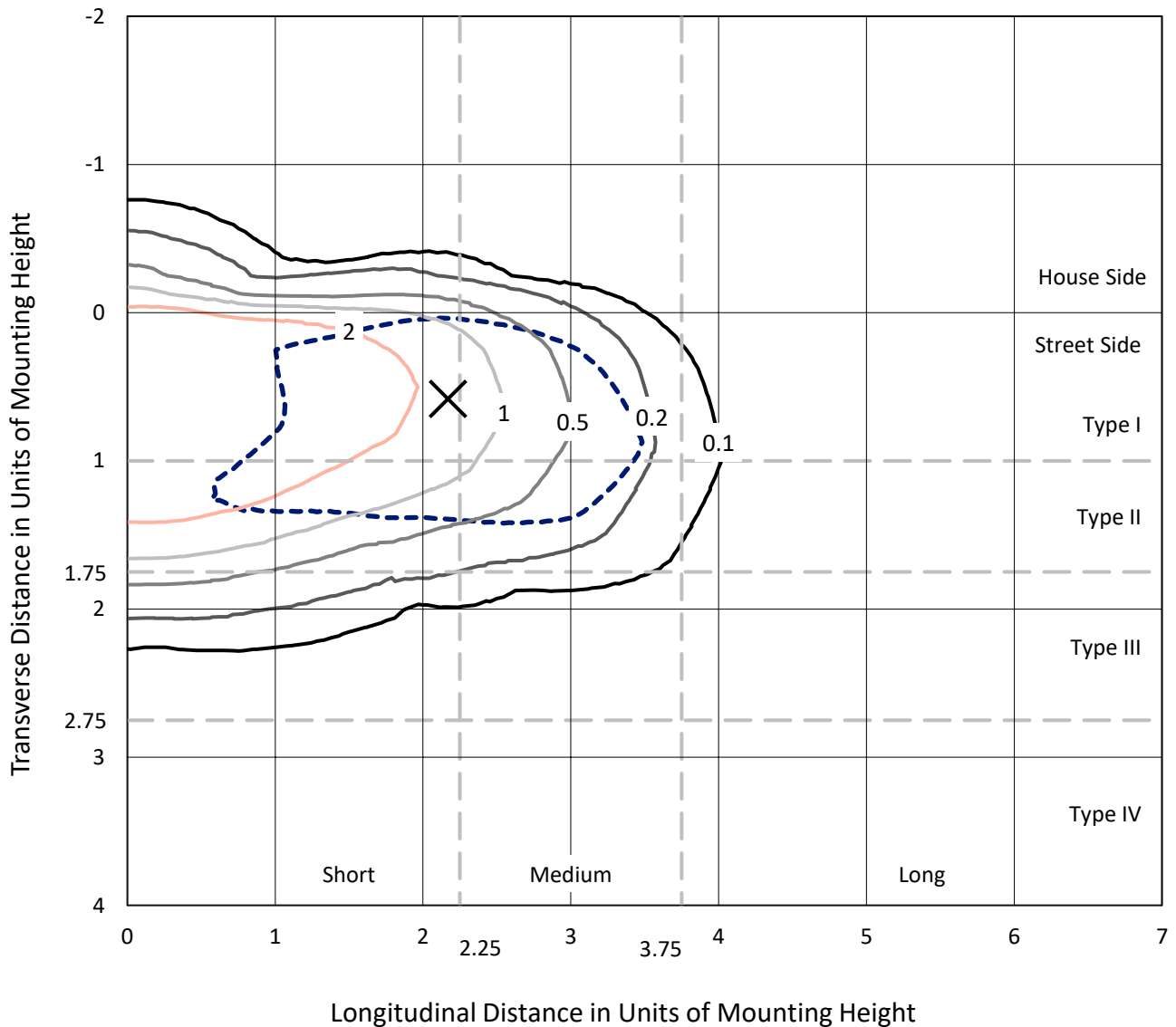
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

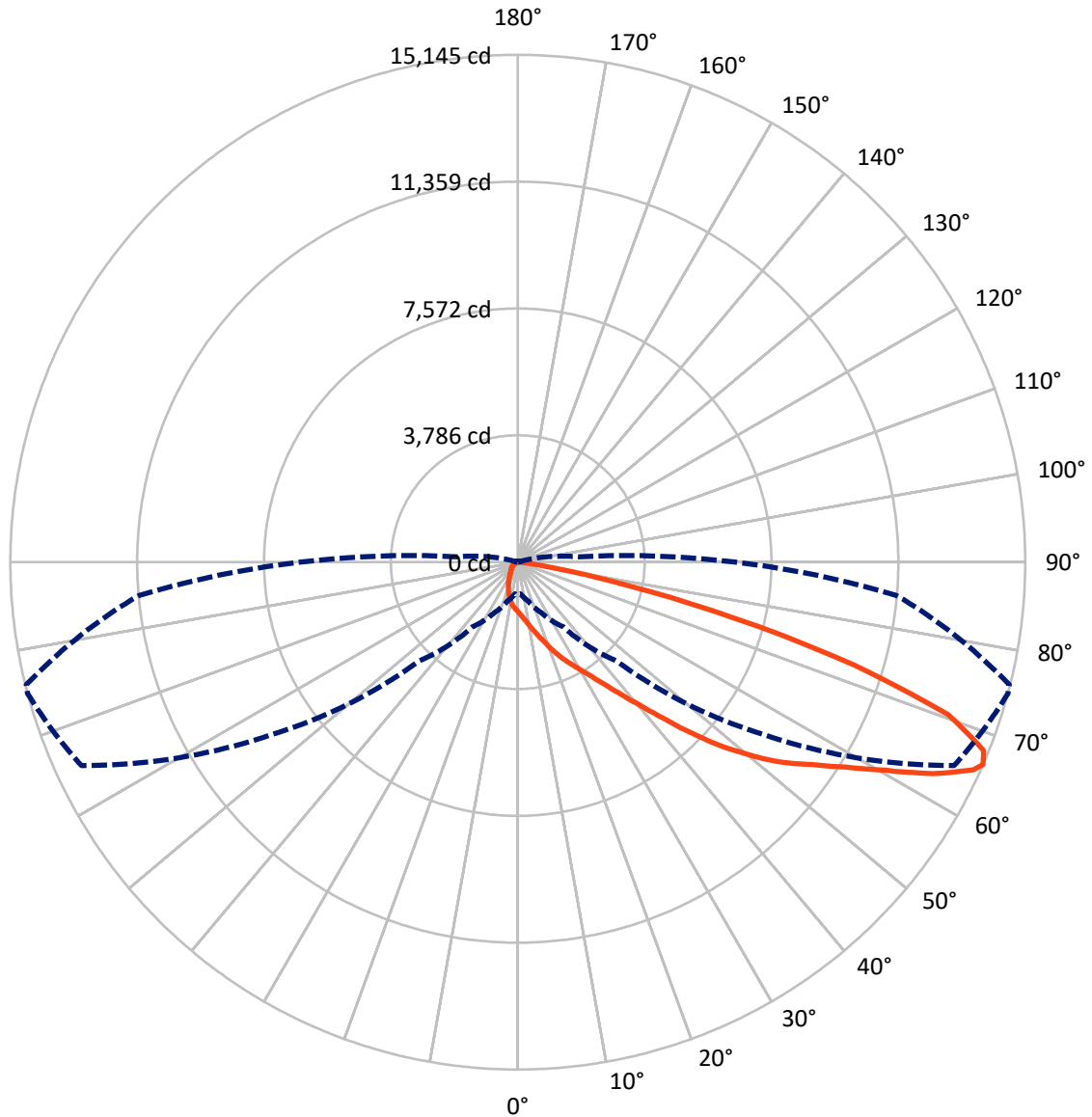
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	834.9	0.0	834.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	12689.1	0.0	12689.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	13524.0	0.0	13524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	1.1
10°-20°	419.8	3.1
20°-30°	725.0	5.4
30°-40°	1307.7	9.7
40°-50°	2362.3	17.5
50°-60°	3682.9	27.2
60°-70°	3498.6	25.9
70°-80°	1311.2	9.7
80°-90°	74.0	0.5
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°	13524.0	100.0
0°-180°	13524.0	100.0

Coefficient of Utilization



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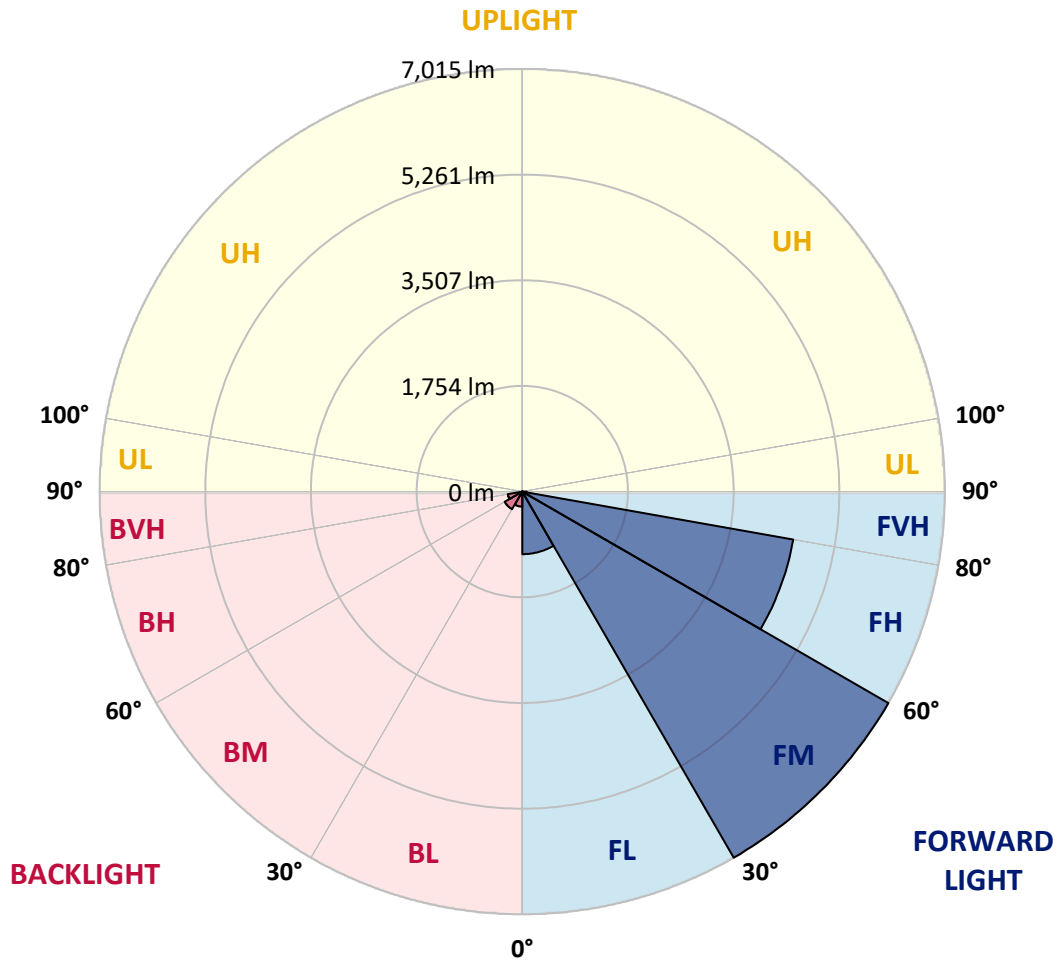
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.1	7.7			
FM (30°-60°)	7014.9	51.9			
FH (60°-80°)	4566.0	33.8			G2/5000
FVH (80°-90°)	70.2	0.5			G1/100
BL (0°-30°)	249.3	1.8	B1/500		
BM (30°-60°)	338.0	2.5	B1/1000		
BH (60°-80°)	243.8	1.8	B1/500		G1/500
BVH (80°-90°)	3.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0
2.5°	1767.0	1745.0	1752.0	1742.0	1719.0	1685.0	1655.0	1612.0	1569.0	1562.0	1514.0
5°	2000.0	1994.0	1986.0	1957.0	1941.0	1889.0	1827.0	1753.0	1664.0	1648.0	1561.0
7.5°	2159.0	2156.0	2160.0	2145.0	2131.0	2084.0	2018.0	1917.0	1779.0	1770.0	1625.0
10°	2211.0	2219.0	2234.0	2258.0	2280.0	2265.0	2215.0	2089.0	1928.0	1902.0	1698.0
12.5°	2181.0	2190.0	2226.0	2290.0	2361.0	2402.0	2382.0	2290.0	2086.0	2065.0	1780.0
15°	2104.0	2115.0	2166.0	2265.0	2392.0	2508.0	2558.0	2492.0	2270.0	2236.0	1879.0
17.5°	1990.0	2006.0	2079.0	2210.0	2384.0	2584.0	2725.0	2703.0	2466.0	2434.0	1987.0
20°	1904.0	1916.0	1978.0	2128.0	2350.0	2626.0	2884.0	2946.0	2708.0	2653.0	2114.0
22.5°	1961.0	1965.0	1986.0	2076.0	2289.0	2637.0	3024.0	3199.0	2965.0	2916.0	2246.0
25°	2240.0	2200.0	2179.0	2159.0	2276.0	2627.0	3151.0	3463.0	3221.0	3169.0	2377.0
27.5°	2680.0	2662.0	2556.0	2414.0	2387.0	2640.0	3235.0	3713.0	3462.0	3406.0	2505.0
30°	3159.0	3128.0	3063.0	2855.0	2646.0	2732.0	3296.0	3956.0	3747.0	3673.0	2622.0
32.5°	3599.0	3619.0	3522.0	3308.0	3066.0	2928.0	3375.0	4221.0	4074.0	3982.0	2758.0
35°	4112.0	4152.0	4003.0	3798.0	3515.0	3282.0	3529.0	4519.9	4488.9	4372.9	2968.0
37.5°	4632.9	4656.9	4565.9	4278.0	4023.0	3732.0	3819.0	4888.9	4999.9	4900.9	3219.0
40°	5070.9	5103.9	5036.9	4780.9	4508.9	4253.0	4240.0	5290.9	5607.9	5505.9	3593.0
42.5°	5405.9	5430.9	5432.9	5251.9	5006.9	4890.9	4776.9	5803.9	6369.9	6251.9	4027.0
45°	5828.9	5864.9	5843.9	5720.9	5537.9	5516.9	5457.9	6423.9	7281.9	7132.9	4589.9
47.5°	6482.9	6506.9	6454.9	6309.9	6123.9	6156.9	6121.9	7118.9	8211.9	8083.9	5172.9
50°	6936.9	6976.9	7050.9	7108.9	6973.9	6851.9	6747.9	7767.9	9094.9	8979.9	5768.9
52.5°	6931.9	6997.9	7231.9	7523.9	7818.9	7781.9	7482.9	8484.9	9937.9	9795.9	6328.9
55°	6464.9	6592.9	6936.9	7454.9	8271.9	8678.9	8542.9	9314.9	10665.9	10569.9	6977.9
57.5°	5500.9	5578.9	6056.9	6780.9	8018.9	9100.9	9770.9	10439.9	11538.9	11493.9	7985.9
60°	3700.0	3735.0	4350.0	5244.9	6826.9	8679.9	10670.9	11800.9	12613.9	12591.9	9162.9
62.5°	2120.0	2135.0	2581.0	3336.0	4857.9	7355.9	10746.9	13479.8	13902.8	13914.8	10524.9
65°	1141.0	1149.0	1509.0	1958.0	2956.0	5242.9	9663.9	14399.8	14944.8	14967.8	11368.9
66°	985.0	947.0	1201.0	1669.0	2352.0	4173.0	8978.9	14366.8	15144.8	15119.8	11338.9
67.5°	749.0	783.0	959.0	1283.0	1743.0	2967.0	7412.9	13727.8	14992.8	14914.8	10877.9
70°	536.0	550.0	683.0	915.0	1187.0	1628.0	4736.9	11401.9	13626.8	13521.8	9476.9
72.5°	346.0	361.0	484.0	662.0	858.0	889.0	2652.0	8237.9	10505.9	10490.9	7136.9
75°	247.0	261.0	320.0	474.0	645.0	550.0	1277.0	5551.9	6678.9	6633.9	4414.9
77.5°	179.0	186.0	214.0	310.0	461.0	394.0	592.0	2965.0	3325.0	3482.0	1951.0
80°	103.0	109.0	149.0	189.0	312.0	269.0	283.0	1190.0	1227.0	1168.0	610.0
82.5°	51.0	58.0	89.0	129.0	195.0	181.0	130.0	358.0	378.0	368.0	154.0
85°	12.0	15.0	50.0	85.0	95.0	81.0	63.0	105.0	130.0	127.0	59.0
87.5°	1.0	2.0	18.0	15.0	16.0	27.0	22.0	27.0	42.0	39.0	21.0
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°	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0	1479.0
2.5°	1492.0	1473.0	1418.0	1364.0	1319.0	1272.0	1229.0	1204.0	1194.0	1183.0	1188.0
5°	1513.0	1467.0	1356.0	1260.0	1166.0	1086.0	1022.0	981.0	961.0	958.0	953.0
7.5°	1541.0	1462.0	1290.0	1140.0	1017.0	928.0	855.0	796.0	778.0	762.0	749.0
10°	1575.0	1453.0	1208.0	1014.0	883.0	771.0	675.0	605.0	569.0	559.0	566.0
12.5°	1611.0	1436.0	1122.0	898.0	747.0	604.0	515.0	480.0	470.0	466.0	467.0
15°	1647.0	1415.0	1032.0	786.0	595.0	482.0	441.0	432.0	428.0	426.0	424.0
17.5°	1680.0	1381.0	931.0	677.0	482.0	412.0	397.0	389.0	381.0	378.0	373.0
20°	1719.0	1342.0	840.0	555.0	408.0	373.0	355.0	340.0	328.0	320.0	319.0
22.5°	1756.0	1292.0	745.0	460.0	372.0	335.0	306.0	290.0	276.0	266.0	269.0
25°	1776.0	1231.0	660.0	401.0	339.0	297.0	265.0	245.0	230.0	225.0	224.0
27.5°	1776.0	1156.0	577.0	367.0	309.0	263.0	230.0	211.0	201.0	194.0	195.0
30°	1762.0	1073.0	500.0	341.0	283.0	233.0	202.0	185.0	177.0	172.0	171.0
32.5°	1751.0	994.0	434.0	316.0	256.0	207.0	180.0	167.0	159.0	154.0	154.0
35°	1768.0	926.0	383.0	291.0	231.0	187.0	163.0	151.0	143.0	139.0	138.0
37.5°	1813.0	864.0	344.0	264.0	208.0	170.0	151.0	137.0	129.0	124.0	122.0
40°	1924.0	829.0	315.0	239.0	186.0	156.0	137.0	124.0	114.0	109.0	108.0
42.5°	2102.0	830.0	287.0	216.0	169.0	144.0	125.0	110.0	99.0	94.0	93.0
45°	2370.0	868.0	265.0	194.0	154.0	131.0	112.0	96.0	86.0	81.0	81.0
47.5°	2691.0	942.0	246.0	175.0	140.0	119.0	99.0	83.0	73.0	69.0	69.0
50°	3039.0	1038.0	227.0	155.0	128.0	106.0	85.0	72.0	64.0	61.0	61.0
52.5°	3394.0	1154.0	208.0	139.0	115.0	92.0	73.0	64.0	57.0	55.0	54.0
55°	3860.0	1302.0	188.0	122.0	101.0	79.0	65.0	56.0	48.0	45.0	44.0
57.5°	4576.9	1525.0	166.0	107.0	83.0	66.0	56.0	47.0	38.0	33.0	32.0
60°	5441.9	1797.0	143.0	94.0	67.0	54.0	45.0	36.0	28.0	22.0	21.0
62.5°	6251.9	1970.0	121.0	79.0	53.0	41.0	32.0	27.0	20.0	14.0	13.0
65°	6609.9	1912.0	100.0	64.0	42.0	29.0	21.0	19.0	12.0	6.0	5.0
66°	6490.9	1826.0	92.0	58.0	38.0	25.0	18.0	16.0	9.0	3.0	3.0
67.5°	6139.9	1623.0	80.0	50.0	33.0	20.0	14.0	12.0	5.0	1.0	0.0
70°	5260.9	1313.0	63.0	37.0	24.0	14.0	8.0	6.0	3.0	0.0	0.0
72.5°	4041.0	978.0	50.0	28.0	17.0	8.0	4.0	2.0	3.0	0.0	0.0
75°	2476.0	559.0	39.0	21.0	11.0	5.0	3.0	0.0	3.0	1.0	0.0
77.5°	1099.0	251.0	26.0	14.0	8.0	4.0	2.0	0.0	2.0	1.0	0.0
80°	278.0	82.0	15.0	10.0	6.0	3.0	1.0	0.0	2.0	2.0	1.0
82.5°	76.0	30.0	11.0	8.0	5.0	3.0	1.0	0.0	2.0	2.0	2.0
85°	30.0	14.0	10.0	8.0	6.0	3.0	1.0	0.0	2.0	2.0	2.0
87.5°	14.0	10.0	10.0	9.0	7.0	3.0	1.0	0.0	2.0	1.0	2.0
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)