

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: P453051

Luminaire Tested: **GALN-SA4A-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
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-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14484 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

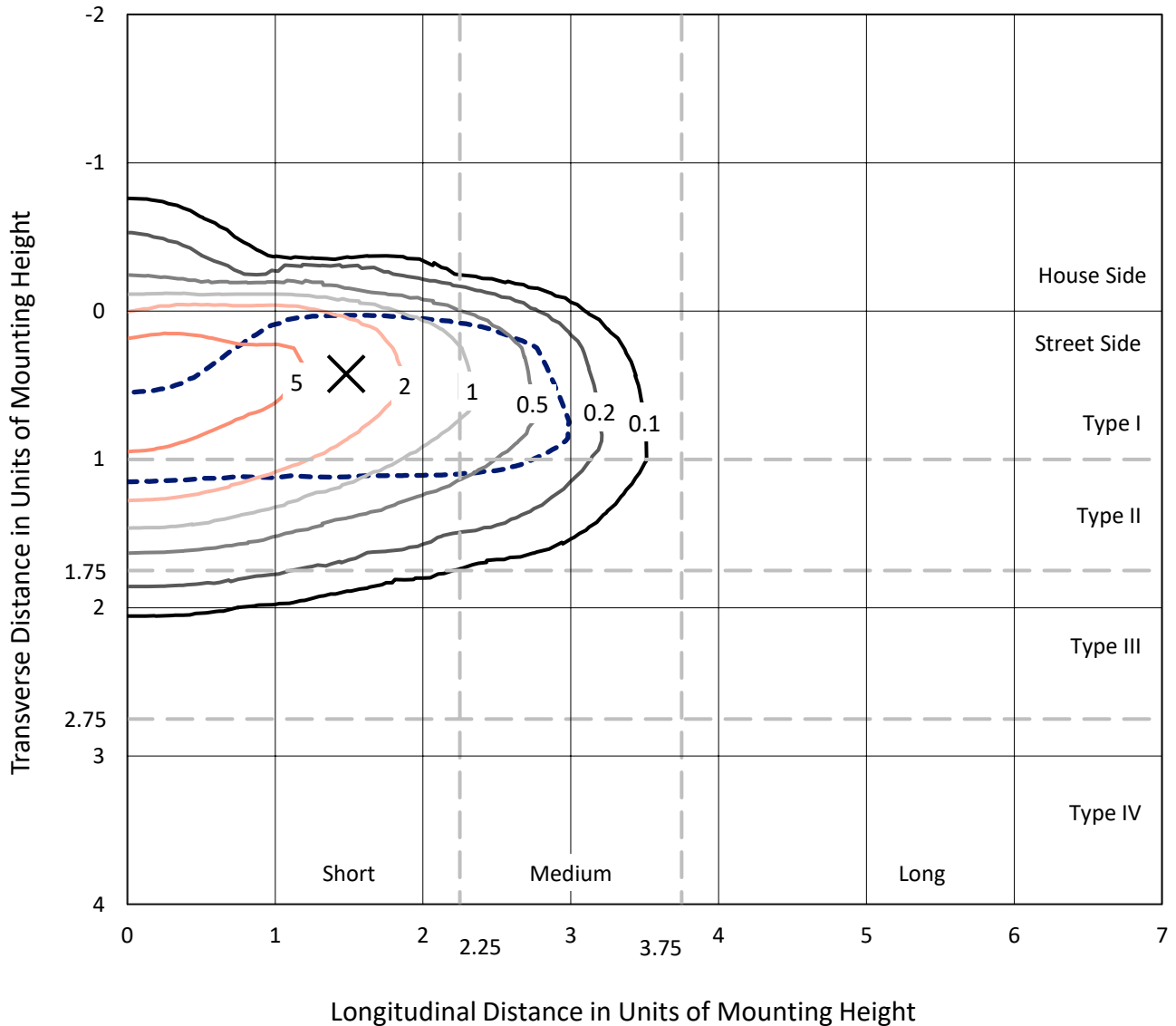
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453051
 CATALOG NUMBER: GALN-SA4A-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

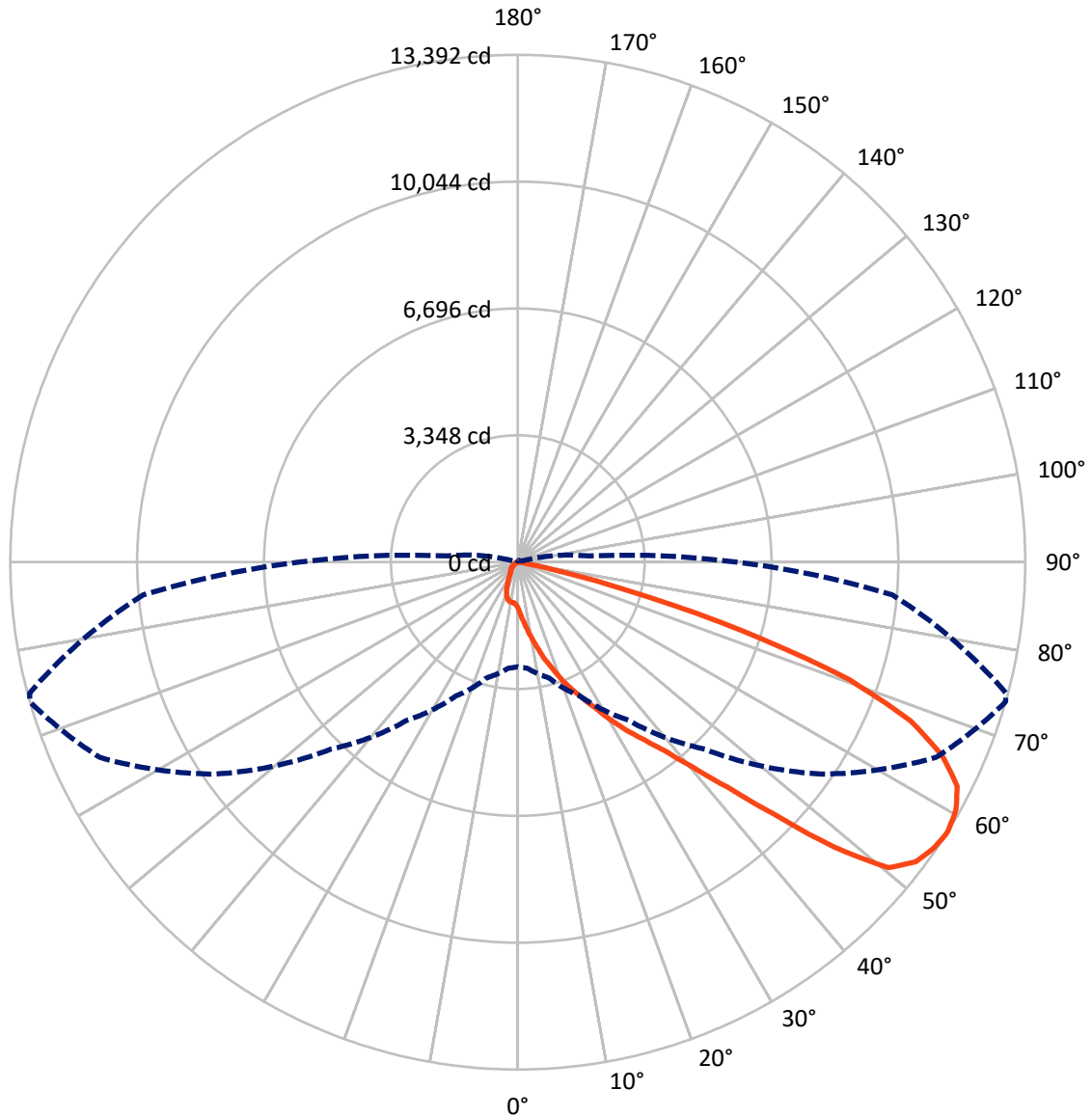
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P453051
CATALOG NUMBER: GALN-SA4A-740-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P453051

CATALOG NUMBER: GALN-SA4A-740-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.4	0.0	835.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	13648.6	0.0	13648.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	14484.0	0.0	14484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	1.0
10°-20°	577.1	4.0
20°-30°	1234.9	8.5
30°-40°	2269.7	15.7
40°-50°	3479.4	24.0
50°-60°	3680.8	25.4
60°-70°	2403.6	16.6
70°-80°	656.8	4.5
80°-90°	35.4	0.2
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°	14484.0	100.0
0°-180°	14484.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453051

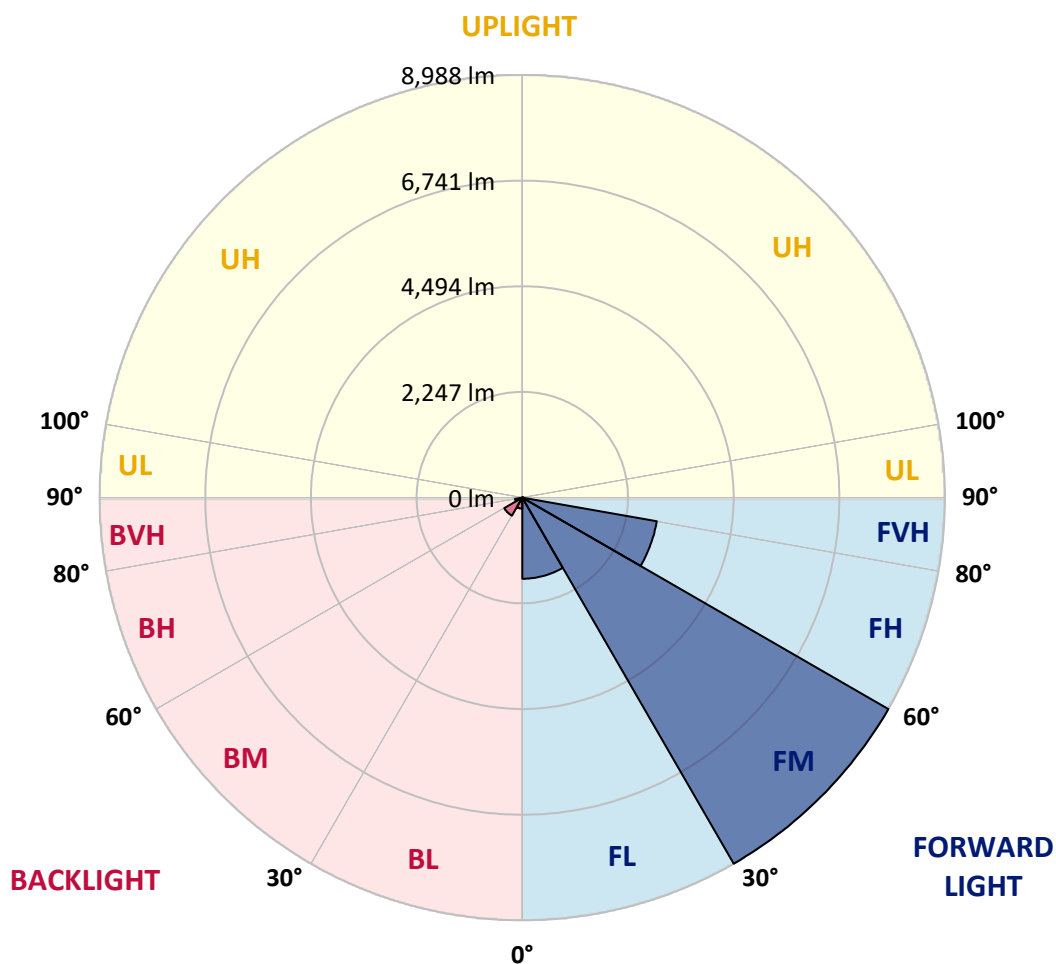
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.0	11.9			
FM (30°-60°)	8987.6	62.1			
FH (60°-80°)	2903.6	20.0			G2/5000
FVH (80°-90°)	32.4	0.2			G1/100
BL (0°-30°)	233.3	1.6	B1/500		
BM (30°-60°)	442.3	3.1	B1/1000		
BH (60°-80°)	156.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.9	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-G2

Type II Short





REPORT NUMBER: P453051

CATALOG NUMBER: GALN-SA4A-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0
2.5°	1775.0	1759.0	1727.0	1716.0	1669.0	1596.0	1532.0	1446.0	1378.0	1371.0	1289.0
5°	2377.0	2341.0	2326.0	2254.0	2141.0	2035.0	1853.0	1715.0	1556.0	1544.0	1379.0
7.5°	2957.0	2907.0	2892.0	2824.0	2692.0	2525.0	2289.0	2038.0	1786.0	1763.0	1500.0
10°	3377.0	3384.0	3357.0	3312.0	3205.0	3035.0	2744.0	2401.0	2042.0	2013.0	1636.0
12.5°	3678.0	3677.0	3682.0	3681.0	3624.0	3495.0	3189.0	2794.0	2324.0	2267.0	1792.0
15°	3874.1	3877.1	3892.1	3944.1	3950.1	3870.1	3615.0	3170.0	2651.0	2580.0	1961.0
17.5°	4072.1	4093.1	4117.1	4166.1	4210.1	4178.1	3998.1	3562.0	2947.0	2894.0	2142.0
20°	4399.1	4428.1	4414.1	4444.1	4467.1	4470.1	4331.1	3924.1	3306.0	3217.0	2349.0
22.5°	4922.1	4921.1	4885.1	4831.1	4786.1	4784.1	4658.1	4296.1	3632.0	3546.0	2557.0
25°	5583.1	5586.1	5516.1	5362.1	5250.1	5113.1	4968.1	4622.1	3981.1	3875.1	2776.0
27.5°	6341.1	6322.1	6216.1	6004.1	5782.1	5548.1	5339.1	5001.1	4351.1	4263.1	3027.0
30°	7022.1	7015.1	6891.1	6632.1	6340.1	6105.1	5802.1	5476.1	4830.1	4722.1	3308.0
32.5°	7656.1	7666.1	7494.1	7226.1	6944.1	6673.1	6353.1	5930.1	5300.1	5147.1	3614.0
35°	8151.1	8161.1	7983.1	7760.1	7470.1	7245.1	6940.1	6414.1	5764.1	5635.1	3966.1
37.5°	8415.1	8428.1	8325.1	8157.1	7976.1	7863.1	7579.1	7037.1	6328.1	6250.1	4382.1
40°	8465.1	8480.1	8435.1	8390.1	8380.1	8461.1	8378.1	7771.1	7110.1	6988.1	5002.1
42.5°	8315.1	8335.1	8355.1	8455.1	8659.1	8956.1	9245.1	8767.1	8117.1	7953.1	5760.1
45°	7921.1	7919.1	7998.1	8257.1	8714.1	9348.1	10151.1	10014.1	9489.1	9294.1	6831.1
47.5°	7247.1	7237.1	7408.1	7777.1	8489.1	9420.1	10890.1	11528.2	11240.1	11060.1	7982.1
50°	6220.1	6269.1	6538.1	7053.1	7930.1	9202.1	11118.1	12521.2	12677.2	12486.2	8912.1
52.5°	5017.1	5015.1	5437.1	6136.1	7102.1	8722.1	10959.1	12701.2	13144.2	12998.2	9370.1
55°	3713.0	3739.0	4178.1	4883.1	6027.1	7846.1	10440.1	12516.2	13322.2	13219.2	9672.1
57°	2762.0	2808.0	3160.0	3906.1	5091.1	6979.1	9749.1	12185.2	13392.2	13336.2	9923.1
57.5°	2578.0	2580.0	2923.0	3601.0	4817.1	6646.1	9551.1	12047.2	13390.2	13359.2	9964.1
60°	1587.0	1637.0	1874.0	2434.0	3526.0	5187.1	8224.1	11254.1	13286.2	13331.2	10139.1
62.5°	950.0	971.0	1125.0	1467.0	2273.0	3786.1	6730.1	10239.1	13015.2	13152.2	10127.1
65°	611.0	616.0	686.0	888.0	1421.0	2559.0	5186.1	8898.1	12314.2	12566.2	9731.1
67.5°	472.0	480.0	508.0	583.0	824.0	1594.0	3668.0	7467.1	11180.1	11505.2	8771.1
70°	419.0	423.0	433.0	457.0	545.0	900.0	2282.0	5833.1	9271.1	9363.1	6864.1
72.5°	342.0	353.0	384.0	392.0	432.0	562.0	1270.0	3915.1	6229.1	6252.1	3840.1
75°	265.0	267.0	313.0	336.0	364.0	387.0	567.0	1974.0	2992.0	2832.0	1480.0
77.5°	198.0	207.0	228.0	257.0	297.0	277.0	254.0	744.0	929.0	912.0	430.0
80°	127.0	132.0	159.0	193.0	231.0	181.0	143.0	218.0	204.0	210.0	103.0
82.5°	64.0	65.0	102.0	157.0	147.0	91.0	90.0	89.0	76.0	75.0	48.0
85°	7.0	15.0	66.0	90.0	66.0	30.0	42.0	41.0	40.0	41.0	28.0
87.5°	1.0	1.0	11.0	13.0	9.0	10.0	12.0	13.0	16.0	15.0	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453051
 CATALOG NUMBER: GALN-SA4A-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0	1213.0
2.5°	1249.0	1209.0	1135.0	1064.0	1011.0	977.0	933.0	917.0	894.0	891.0	880.0
5°	1303.0	1227.0	1098.0	996.0	914.0	852.0	798.0	753.0	717.0	709.0	713.0
7.5°	1380.0	1267.0	1087.0	948.0	834.0	728.0	642.0	589.0	551.0	537.0	539.0
10°	1467.0	1320.0	1085.0	897.0	723.0	593.0	499.0	452.0	430.0	422.0	413.0
12.5°	1570.0	1381.0	1080.0	818.0	601.0	473.0	406.0	378.0	357.0	351.0	351.0
15°	1686.0	1446.0	1056.0	720.0	488.0	391.0	346.0	324.0	317.0	311.0	311.0
17.5°	1807.0	1510.0	1006.0	599.0	405.0	335.0	307.0	294.0	284.0	277.0	277.0
20°	1945.0	1573.0	926.0	492.0	342.0	299.0	277.0	262.0	254.0	248.0	246.0
22.5°	2076.0	1624.0	824.0	404.0	298.0	269.0	249.0	233.0	225.0	222.0	222.0
25°	2212.0	1655.0	701.0	334.0	272.0	244.0	222.0	209.0	202.0	200.0	199.0
27.5°	2344.0	1673.0	593.0	292.0	248.0	221.0	200.0	190.0	183.0	181.0	182.0
30°	2504.0	1676.0	488.0	262.0	227.0	199.0	180.0	171.0	167.0	165.0	164.0
32.5°	2666.0	1672.0	410.0	244.0	207.0	180.0	164.0	157.0	154.0	151.0	151.0
35°	2848.0	1651.0	349.0	226.0	188.0	164.0	150.0	144.0	140.0	137.0	136.0
37.5°	3074.0	1640.0	314.0	206.0	171.0	149.0	136.0	130.0	127.0	123.0	122.0
40°	3430.0	1689.0	303.0	188.0	154.0	135.0	123.0	116.0	112.0	108.0	107.0
42.5°	3874.1	1775.0	285.0	170.0	139.0	122.0	110.0	102.0	95.0	90.0	88.0
45°	4449.1	1888.0	257.0	151.0	126.0	108.0	97.0	87.0	78.0	74.0	73.0
47.5°	5052.1	1997.0	232.0	136.0	112.0	96.0	84.0	73.0	65.0	62.0	61.0
50°	5422.1	2019.0	216.0	119.0	98.0	83.0	71.0	61.0	56.0	53.0	53.0
52.5°	5591.1	1984.0	194.0	104.0	85.0	73.0	61.0	53.0	50.0	48.0	47.0
55°	5709.1	1930.0	165.0	90.0	73.0	62.0	54.0	48.0	44.0	42.0	41.0
57°	5778.1	1857.0	143.0	79.0	63.0	54.0	48.0	43.0	39.0	35.0	35.0
57.5°	5781.1	1829.0	137.0	78.0	60.0	52.0	47.0	42.0	37.0	33.0	32.0
60°	5692.1	1637.0	110.0	66.0	48.0	44.0	39.0	33.0	26.0	22.0	21.0
62.5°	5406.1	1393.0	91.0	56.0	39.0	34.0	28.0	25.0	18.0	13.0	13.0
65°	4973.1	1130.0	78.0	45.0	32.0	25.0	19.0	18.0	11.0	6.0	5.0
67.5°	4347.1	880.0	66.0	37.0	27.0	18.0	13.0	12.0	6.0	2.0	0.0
70°	3312.0	600.0	55.0	30.0	20.0	13.0	9.0	7.0	4.0	1.0	0.0
72.5°	1909.0	330.0	46.0	23.0	15.0	10.0	7.0	4.0	4.0	0.0	0.0
75°	682.0	142.0	35.0	17.0	12.0	8.0	5.0	2.0	3.0	1.0	0.0
77.5°	217.0	76.0	23.0	13.0	10.0	6.0	4.0	2.0	2.0	1.0	0.0
80°	64.0	40.0	14.0	11.0	7.0	5.0	3.0	1.0	2.0	1.0	0.0
82.5°	35.0	20.0	11.0	8.0	7.0	4.0	3.0	1.0	1.0	1.0	0.0
85°	18.0	12.0	9.0	8.0	7.0	4.0	3.0	1.0	0.0	1.0	1.0
87.5°	10.0	9.0	9.0	8.0	7.0	5.0	3.0	1.0	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)