

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: P940764

Luminaire Tested: **GALN-SB4A-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12177 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 114
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

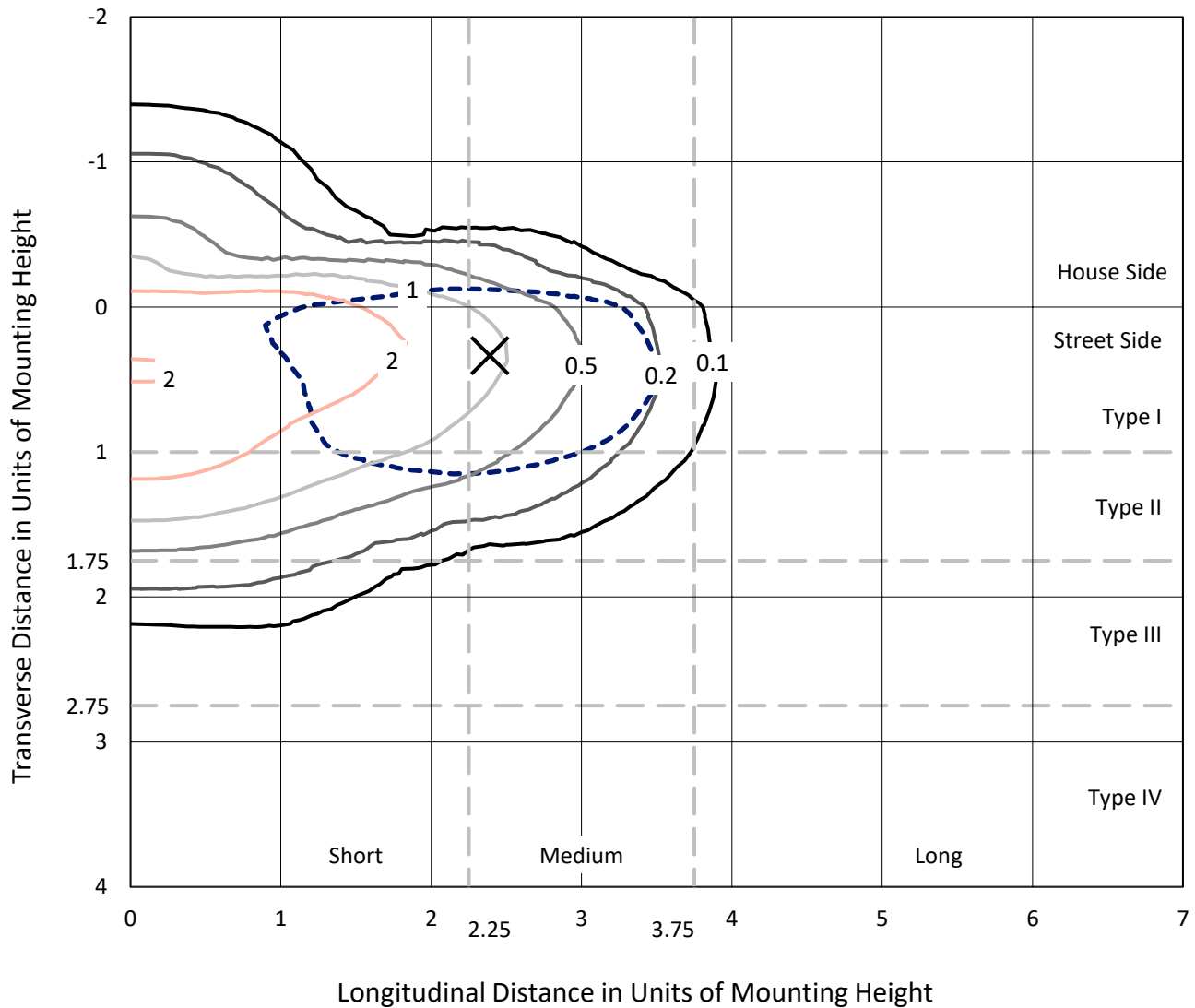


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

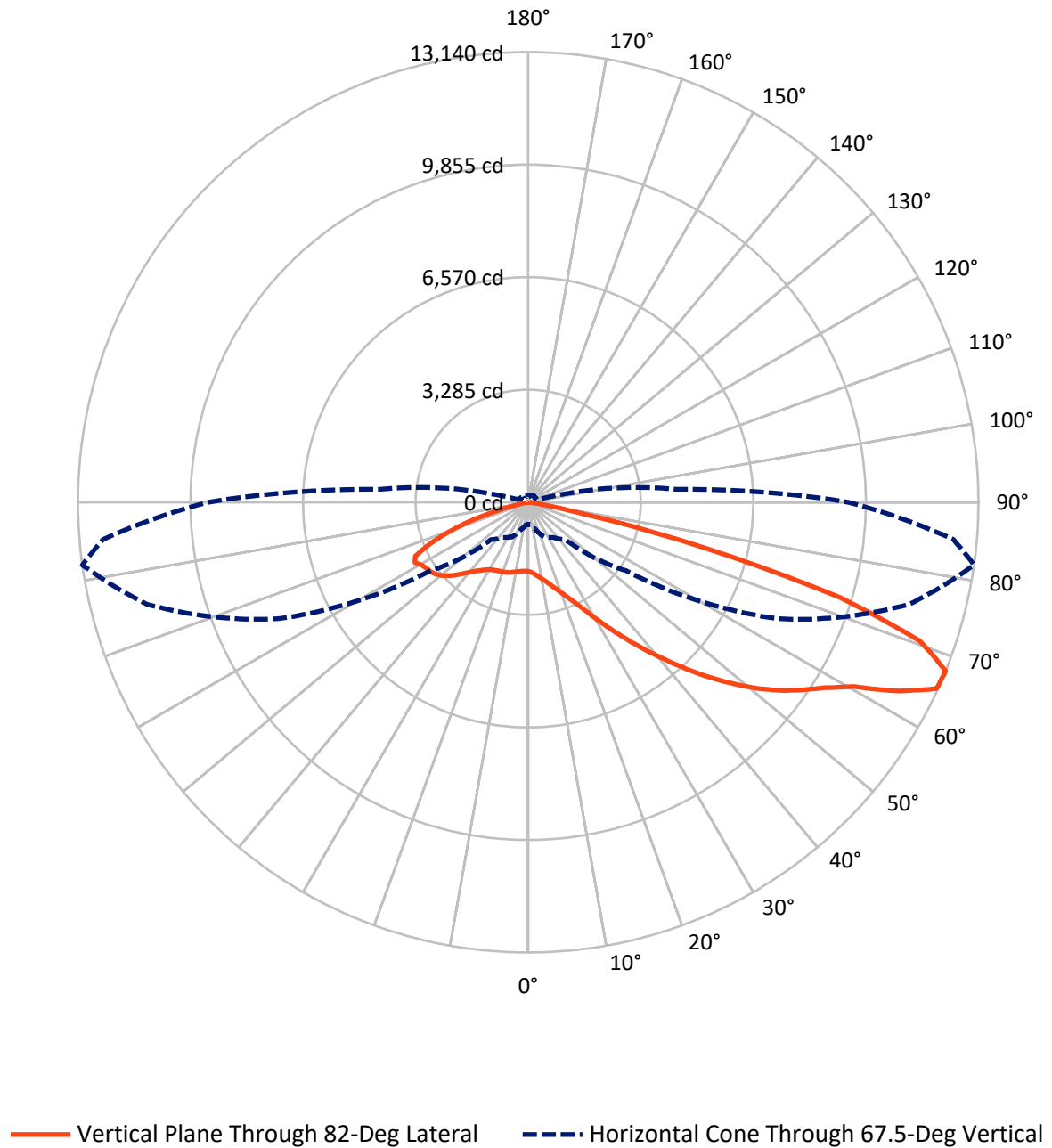


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2205.8	0.0	2205.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9971.2	0.0	9971.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	12177.0	0.0	12177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	1.5
10°-20°	467.0	3.8
20°-30°	748.0	6.1
30°-40°	1322.8	10.9
40°-50°	2317.6	19.0
50°-60°	3091.1	25.4
60°-70°	2877.6	23.6
70°-80°	1104.4	9.1
80°-90°	68.6	0.6
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°	12177.0	100.0
0°-180°	12177.0	100.0

Coefficient of Utilization



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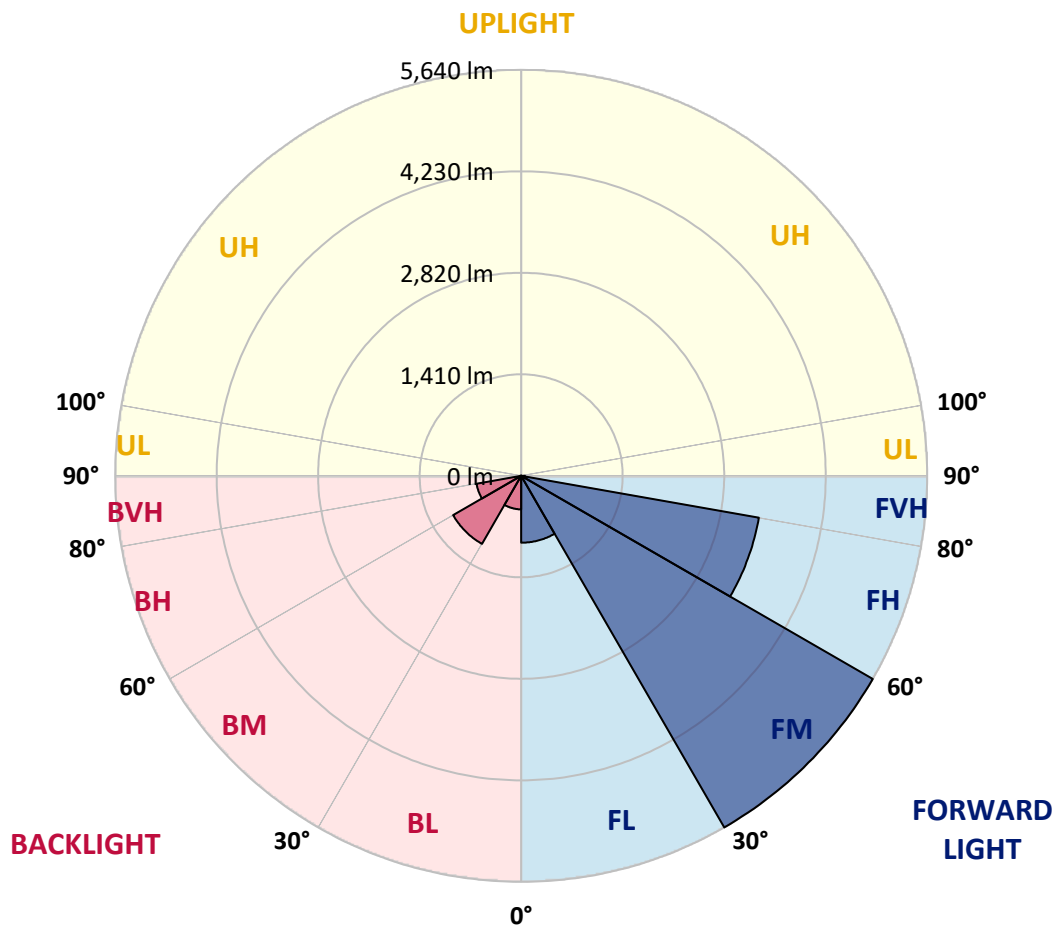
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	929.0	7.6			
FM	(30°-60°)	5639.9	46.3			
FH	(60°-80°)	3352.5	27.5			G2/5000
FVH	(80°-90°)	49.9	0.4			G1/100
BL	(0°-30°)	465.8	3.8	B1/500		
BM	(30°-60°)	1091.6	9.0	B2/2500		
BH	(60°-80°)	629.6	5.2	B2/1000		G2/1000
BVH	(80°-90°)	18.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3
2.5°	2132.2	2144.4	2137.4	2133.9	2127.8	2119.0	2112.0	2090.1	2067.3	2052.4	2047.1
5°	2175.1	2187.4	2186.5	2190.0	2194.4	2197.0	2195.3	2170.7	2138.3	2112.9	2098.0
7.5°	2138.3	2152.3	2163.7	2181.3	2211.9	2244.4	2260.2	2254.9	2221.6	2186.5	2168.1
10°	2034.0	2048.9	2076.1	2117.3	2182.1	2252.3	2311.0	2338.2	2317.2	2278.6	2253.2
12.5°	1842.9	1857.8	1911.2	2000.7	2109.4	2231.2	2343.5	2416.2	2421.5	2382.9	2353.1
15°	1628.1	1643.0	1699.9	1812.2	1977.9	2173.4	2361.0	2498.6	2545.1	2511.8	2475.8
17.5°	1494.8	1507.9	1550.9	1641.2	1813.9	2057.6	2354.9	2586.3	2692.4	2666.1	2623.1
20°	1454.5	1465.9	1486.0	1549.2	1692.9	1937.5	2314.5	2668.7	2851.1	2836.2	2787.9
22.5°	1497.4	1507.9	1514.1	1542.1	1632.4	1858.6	2263.7	2752.9	3035.2	3036.9	2978.2
25°	1596.5	1607.0	1600.0	1617.5	1657.0	1834.1	2244.4	2851.9	3266.6	3285.9	3219.3
27.5°	1759.6	1760.4	1743.8	1742.9	1749.0	1870.9	2264.5	2958.0	3558.6	3594.5	3512.1
30°	2086.6	2073.4	2009.4	1940.2	1908.6	1981.4	2320.7	3083.4	3903.1	3967.1	3863.7
32.5°	2590.7	2571.4	2453.9	2288.2	2121.6	2159.3	2421.5	3226.3	4278.4	4394.1	4267.8
35°	3137.8	3132.5	3009.8	2763.4	2472.3	2412.7	2585.4	3413.9	4687.8	4871.9	4722.0
37.5°	3646.2	3643.6	3573.5	3283.3	2929.1	2766.0	2848.4	3659.4	5126.1	5392.7	5215.6
40°	4110.9	4118.8	4048.7	3789.2	3432.3	3219.3	3206.1	3962.7	5613.6	5959.9	5749.5
42.5°	4512.4	4521.2	4450.2	4258.2	3929.4	3720.8	3645.4	4334.5	6089.6	6569.2	6320.2
45°	4785.1	4839.5	4828.9	4675.5	4439.7	4223.1	4173.2	4800.9	6632.3	7215.3	6923.4
47.5°	4862.3	4912.2	4991.1	5012.2	4868.4	4655.3	4715.0	5362.9	7181.2	7862.4	7530.1
50°	4672.0	4718.5	4882.4	5100.7	5200.7	5134.9	5241.9	5965.2	7743.1	8507.6	8125.4
52.5°	4296.8	4344.1	4551.0	4896.4	5304.1	5511.0	5770.5	6558.7	8287.6	9118.7	8689.1
55°	3754.1	3804.1	4069.7	4460.7	5106.9	5666.2	6211.5	7151.3	8786.4	9668.4	9197.6
57.5°	3015.9	3052.7	3328.9	3875.9	4610.6	5511.9	6536.8	7798.4	9256.3	10208.4	9701.7
60°	1965.6	1998.0	2318.9	2929.1	3788.3	4996.4	6601.6	8519.9	9880.6	10910.7	10381.2
62.5°	1307.2	1329.1	1519.3	1967.3	2667.8	4006.6	6222.0	9095.9	10795.8	12132.8	11546.3
65°	896.9	918.8	1109.0	1421.2	1723.6	2650.3	5130.5	9019.6	11625.2	13103.4	12409.9
67.5°	640.0	658.4	819.7	1114.3	1247.6	1539.5	3477.9	8044.7	11506.0	13140.2	12456.3
70°	458.5	469.0	602.3	867.9	991.6	924.9	1934.0	6152.8	10074.3	12133.7	11507.7
72.5°	320.9	324.4	418.2	661.0	798.7	675.1	920.5	4102.1	7619.5	9523.7	8921.4
75°	217.4	221.8	281.4	484.8	640.9	515.5	487.5	2199.7	4473.0	5271.7	4725.5
77.5°	133.3	135.0	181.5	331.4	479.6	392.8	313.9	931.9	1730.6	1699.1	1448.3
80°	75.4	75.4	115.7	206.0	327.0	253.4	220.1	396.3	547.9	481.3	424.3
82.5°	42.1	43.0	84.2	128.0	216.5	149.9	121.0	183.2	236.7	209.5	182.4
85°	17.5	19.3	51.7	60.5	103.5	74.5	49.1	77.2	87.7	78.0	57.0
87.5°	1.8	2.6	15.8	11.4	12.3	14.9	7.0	14.9	12.3	12.3	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°	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3	2017.3
2.5°	2030.5	2017.3	1984.0	1945.4	1894.6	1870.0	1836.7	1813.9	1794.6	1796.4	1778.9
5°	2069.9	2036.6	1962.1	1869.2	1753.4	1671.0	1583.3	1522.9	1473.8	1463.2	1439.6
7.5°	2124.3	2071.7	1941.0	1773.6	1578.1	1429.9	1297.5	1212.5	1152.0	1132.7	1113.4
10°	2194.4	2118.1	1913.9	1653.5	1372.1	1183.6	1041.5	974.9	933.7	919.7	909.2
12.5°	2275.9	2171.6	1877.9	1507.1	1159.9	978.4	888.1	854.8	841.6	837.3	834.6
15°	2378.5	2238.2	1823.6	1333.5	980.2	853.0	814.5	810.1	811.8	810.1	809.2
17.5°	2500.4	2311.0	1735.0	1154.6	859.2	789.0	775.0	778.5	782.9	782.0	780.3
20°	2633.6	2382.9	1621.9	995.9	776.8	743.5	735.6	739.1	742.6	740.8	739.9
22.5°	2785.3	2460.1	1496.5	872.3	721.5	701.4	692.6	693.5	693.5	690.0	688.2
25°	2966.8	2545.1	1365.0	784.7	679.5	663.7	653.2	649.6	644.4	633.9	632.1
27.5°	3183.3	2635.4	1238.8	723.3	646.1	631.2	619.0	610.2	597.0	579.5	577.8
30°	3427.1	2745.0	1131.8	684.7	619.8	604.9	590.9	577.8	558.5	536.5	534.8
32.5°	3713.8	2862.5	1053.8	659.3	596.2	580.4	563.7	547.9	526.9	505.0	505.9
35°	4055.7	3004.5	1008.2	641.8	577.8	556.7	538.3	520.8	505.0	485.7	483.9
37.5°	4426.5	3155.3	994.2	633.0	565.5	533.0	512.0	499.7	498.0	486.6	485.7
40°	4832.4	3334.1	1004.7	627.7	552.3	510.2	487.5	484.8	489.2	469.0	469.9
42.5°	5262.0	3546.3	1022.2	621.6	533.9	487.5	465.5	465.5	462.0	434.0	434.0
45°	5726.7	3790.9	1039.8	606.7	512.0	464.7	448.0	441.9	427.0	399.8	398.9
47.5°	6194.9	4039.9	1052.9	579.5	485.7	445.4	430.5	416.4	394.5	370.0	369.1
50°	6639.3	4263.5	1038.9	539.2	455.9	427.0	411.2	391.9	368.2	351.6	348.9
52.5°	7036.5	4457.2	979.3	491.8	424.3	407.7	393.6	373.5	354.2	336.7	334.9
55°	7381.9	4614.1	874.1	447.1	396.3	391.0	377.0	351.6	325.3	310.4	308.6
57.5°	7713.3	4733.4	742.6	410.3	370.8	372.6	351.6	328.8	304.2	288.4	286.7
60°	8154.3	4892.9	609.3	376.1	343.7	348.9	326.1	309.5	278.8	258.6	256.0
62.5°	8859.2	5141.0	483.9	334.0	312.1	313.9	304.2	284.1	247.2	223.6	221.8
65°	9418.5	5049.9	381.4	288.4	276.2	278.8	278.8	256.9	217.4	190.2	187.6
67.5°	9355.4	4323.9	304.2	243.7	242.0	243.7	249.9	231.5	192.9	171.0	167.5
70°	8618.1	3439.3	243.7	202.5	210.4	206.0	223.6	211.3	173.6	151.7	149.0
72.5°	7032.1	2477.6	185.9	167.5	161.3	168.3	201.6	190.2	144.7	120.1	117.5
75°	4109.2	1322.1	138.5	132.4	116.6	140.3	178.8	162.2	110.5	88.5	85.9
77.5°	1337.9	461.2	101.7	97.3	86.8	113.1	152.5	136.8	90.3	70.1	67.5
80°	358.6	139.4	69.3	64.0	56.1	84.2	121.0	108.7	64.9	45.6	44.7
82.5°	143.8	58.7	40.3	35.9	30.7	57.9	95.6	87.7	48.2	28.9	28.9
85°	46.5	19.3	14.9	11.4	14.0	35.9	57.0	59.6	34.2	14.9	11.4
87.5°	6.1	2.6	2.6	3.5	2.6	6.1	17.5	16.7	9.6	1.8	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)