

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: P940936

Luminaire Tested: **GALN-SB4B-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16417 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 147
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

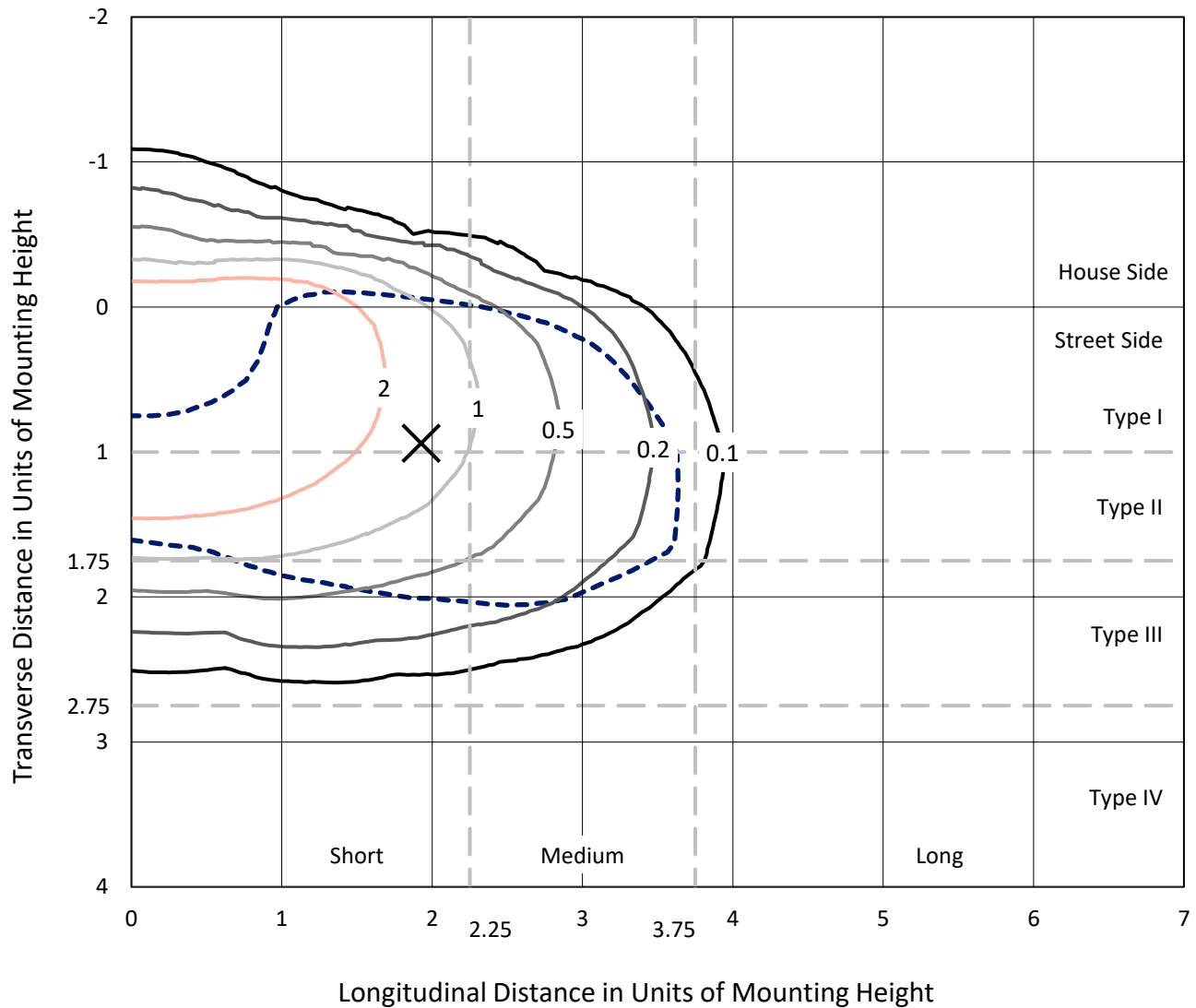


REPORT NUMBER: P940936

CATALOG NUMBER: GALN-SB4B-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

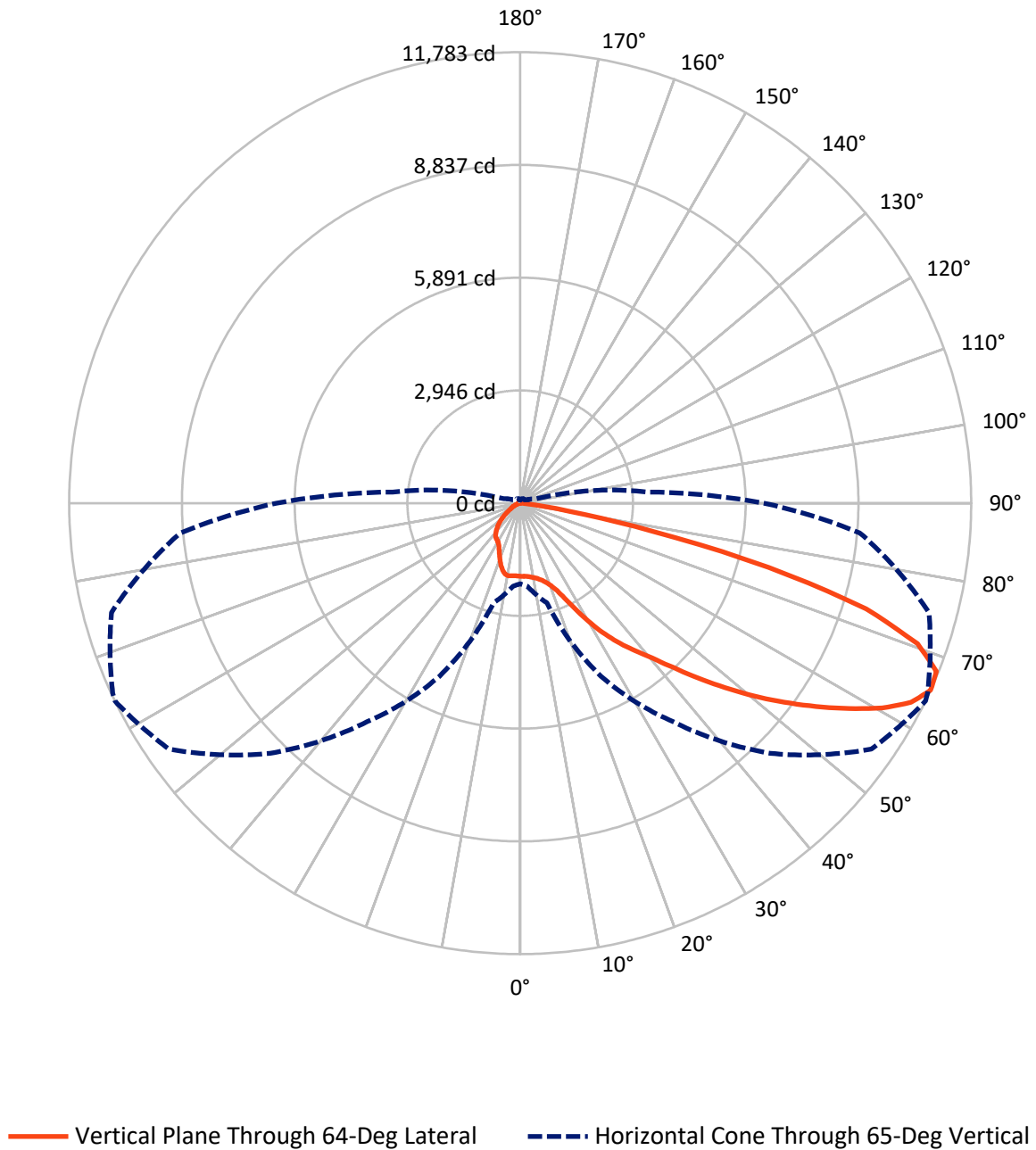


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - N/A

REPORT NUMBER: P940936

CATALOG NUMBER: GALN-SB4B-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P940936

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2195.4	0.0	2195.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14221.5	0.0	14221.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	16417.0	0.0	16417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	1.1
10°-20°	477.8	2.9
20°-30°	905.4	5.5
30°-40°	1832.1	11.2
40°-50°	3121.1	19.0
50°-60°	4244.4	25.9
60°-70°	3985.7	24.3
70°-80°	1596.8	9.7
80°-90°	77.4	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°	16417.0	100.0
0°-180°	16417.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940936

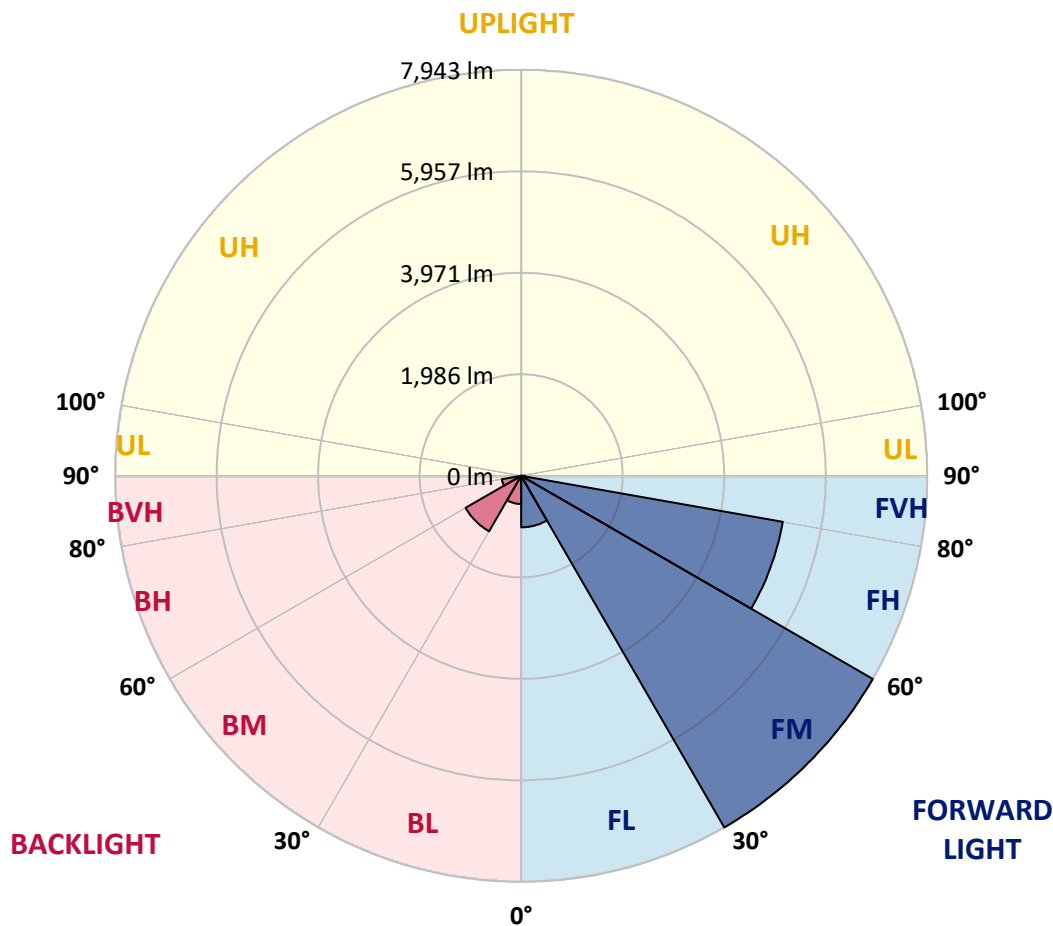
CATALOG NUMBER: GALN-SB4B-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1008.2	6.1			
FM	(30°-60°)	7942.5	48.4			
FH	(60°-80°)	5197.2	31.7			G3/7500
FVH	(80°-90°)	73.6	0.4			G1/100
BL	(0°-30°)	551.2	3.4	B2/1000		
BM	(30°-60°)	1255.1	7.6	B2/2500		
BH	(60°-80°)	385.3	2.3	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: B2-U0-G3

Type III Short



REPORT NUMBER: P940936

CATALOG NUMBER: GALN-SB4B-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5
2.5°	1902.9	1916.1	1912.8	1909.5	1908.4	1910.6	1911.7	1910.6	1910.6	1910.6	1911.7
5°	1866.5	1877.6	1877.6	1885.3	1896.3	1909.5	1919.4	1921.6	1923.8	1927.1	1926.0
7.5°	1797.2	1806.0	1812.6	1837.9	1865.4	1900.7	1930.4	1945.8	1948.0	1960.1	1964.5
10°	1749.9	1760.9	1771.9	1798.3	1837.9	1890.8	1941.4	1978.8	1984.3	2012.9	2026.1
12.5°	1747.7	1758.7	1773.0	1801.6	1847.8	1904.0	1965.6	2019.5	2029.4	2071.2	2098.8
15°	1770.8	1784.0	1797.2	1832.4	1882.0	1950.2	2016.2	2083.4	2093.3	2152.7	2182.4
17.5°	1818.1	1835.7	1845.6	1880.9	1933.7	2009.6	2096.6	2173.6	2182.4	2251.7	2289.2
20°	1911.7	1932.6	1935.9	1964.5	2016.2	2097.7	2201.1	2296.9	2307.9	2387.1	2428.9
22.5°	2105.4	2135.1	2108.7	2123.0	2169.2	2250.6	2362.9	2484.0	2499.4	2589.6	2627.0
25°	2446.5	2488.4	2420.1	2395.9	2415.7	2500.5	2641.3	2794.3	2811.9	2884.6	2903.3
27.5°	3116.8	3062.9	2959.4	2858.1	2798.7	2847.1	3005.6	3194.9	3216.9	3287.4	3265.4
30°	3853.1	3805.7	3666.0	3441.4	3300.6	3292.9	3439.2	3650.5	3675.9	3743.0	3675.9
32.5°	4590.4	4545.3	4393.4	4117.2	3872.9	3751.8	3853.1	4087.5	4100.7	4143.6	4044.5
35°	5315.7	5269.5	5117.6	4834.7	4534.3	4259.2	4239.3	4503.5	4507.9	4553.0	4405.5
37.5°	6045.4	6006.8	5845.1	5567.7	5271.7	4892.0	4708.2	4897.5	4903.0	4947.0	4794.0
40°	6565.9	6582.4	6471.3	6256.7	6002.4	5587.5	5234.3	5316.8	5283.8	5357.5	5266.2
42.5°	7012.8	7045.8	6948.9	6841.1	6693.6	6328.2	5885.8	5871.5	5818.6	5858.3	5763.6
45°	7399.0	7426.6	7339.6	7314.3	7311.0	7054.6	6597.8	6512.0	6438.3	6430.6	6317.2
47.5°	7541.0	7593.8	7631.3	7716.0	7881.1	7773.2	7334.1	7200.9	7118.4	7057.9	6878.5
50°	7594.9	7651.1	7778.7	8025.3	8416.0	8462.2	8067.1	7917.4	7816.2	7706.1	7442.0
52.5°	7522.3	7622.5	7794.1	8209.1	8775.8	9014.7	8770.3	8639.4	8523.8	8344.4	7952.6
55°	7094.2	7194.3	7545.4	8206.9	8955.2	9402.1	9435.1	9376.8	9246.9	8964.0	8365.3
57.5°	6191.7	6340.3	6896.1	7927.3	8951.9	9735.5	10086.6	10128.4	9983.2	9578.2	8690.0
60°	4941.5	5142.9	5820.8	7307.7	8675.7	9916.0	10657.8	10866.9	10712.8	10183.5	8953.0
62.5°	3448.0	3681.4	4323.0	6337.0	8044.0	9786.2	11074.9	11461.2	11344.5	10724.9	9054.3
65°	2103.2	2178.0	2695.3	4986.6	6969.8	9242.5	11203.7	11782.6	11744.1	11056.2	8904.6
67.5°	1401.0	1463.7	1612.3	3419.4	5410.3	8156.2	10895.5	11726.4	11737.4	11002.3	8356.5
70°	844.1	898.1	994.9	1988.7	3506.4	6455.9	9941.3	11011.1	11074.9	10281.4	7317.6
72.5°	347.8	384.1	472.1	901.4	1815.9	4097.4	7916.3	9453.8	9602.4	8644.9	5616.1
75°	197.0	215.7	277.3	452.3	788.0	1909.5	4795.1	6711.2	6930.2	5958.4	3378.7
77.5°	131.0	139.8	179.4	292.7	443.5	651.5	2049.2	3496.5	3914.7	3254.3	1462.6
80°	88.0	95.7	123.3	195.9	288.3	279.5	652.6	1295.4	1593.6	1118.2	356.6
82.5°	59.4	60.5	88.0	128.8	182.7	135.4	192.6	402.8	506.3	323.6	135.4
85°	34.1	33.0	64.9	74.8	81.4	56.1	58.3	121.1	158.5	136.5	77.0
87.5°	4.4	6.6	25.3	19.8	11.0	12.1	12.1	20.9	30.8	33.0	16.5
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: P940936

CATALOG NUMBER: GALN-SB4B-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5	1909.5
2.5°	1911.7	1910.6	1907.3	1904.0	1896.3	1891.9	1894.1	1891.9	1890.8	1891.9	1896.3
5°	1926.0	1922.7	1913.9	1902.9	1887.5	1868.7	1856.6	1839.0	1822.5	1812.6	1814.8
7.5°	1964.5	1961.2	1949.1	1918.3	1868.7	1790.6	1719.1	1656.3	1609.0	1581.5	1582.6
10°	2026.1	2020.6	2001.9	1933.7	1803.8	1633.2	1491.3	1373.5	1296.5	1260.1	1256.8
12.5°	2098.8	2092.2	2059.1	1919.4	1680.6	1414.2	1218.3	1087.4	1015.8	983.9	980.6
15°	2184.6	2175.8	2110.9	1851.1	1501.2	1172.1	992.7	894.8	848.5	819.9	821.0
17.5°	2291.4	2276.0	2149.4	1748.8	1306.4	987.2	854.0	780.3	739.6	712.1	709.9
20°	2430.0	2404.7	2180.2	1626.6	1127.0	870.5	760.5	698.9	668.0	643.8	639.4
22.5°	2623.7	2587.4	2217.6	1494.6	1000.4	790.2	691.2	646.0	620.7	593.2	588.8
25°	2863.7	2820.7	2263.8	1372.4	913.5	720.9	640.5	603.1	573.4	541.5	538.2
27.5°	3199.3	3122.3	2318.9	1272.2	838.6	661.4	594.3	552.5	518.4	491.9	486.4
30°	3573.5	3446.9	2367.3	1211.7	770.4	606.4	533.8	491.9	460.0	441.3	438.0
32.5°	3927.9	3756.2	2399.2	1185.3	708.8	543.7	467.7	422.6	398.4	392.9	396.2
35°	4262.5	4035.7	2395.9	1160.0	653.7	480.9	402.8	356.6	337.9	341.2	341.2
37.5°	4647.7	4334.0	2372.8	1120.4	608.6	423.7	346.7	306.0	289.4	290.5	294.9
40°	5095.6	4678.5	2358.5	1045.5	559.1	370.9	300.5	267.4	255.3	250.9	249.8
42.5°	5573.2	5011.9	2360.7	960.8	497.5	323.6	268.5	241.0	230.0	226.7	225.6
45°	6053.1	5330.0	2364.0	872.7	432.5	287.2	245.4	222.3	215.7	211.3	211.3
47.5°	6504.3	5600.7	2302.4	778.1	368.7	259.7	226.7	211.3	205.8	200.3	200.3
50°	6924.7	5781.2	2153.8	668.0	318.1	237.7	212.4	201.4	195.9	190.4	190.4
52.5°	7251.6	5809.8	1908.4	554.7	282.8	221.2	203.6	193.7	187.1	181.6	180.5
55°	7396.8	5630.5	1559.5	449.0	255.3	206.9	194.8	184.9	177.2	171.7	170.6
57.5°	7359.4	5253.0	1216.1	361.0	228.9	192.6	183.8	177.2	168.4	159.6	158.5
60°	7175.6	4747.8	916.8	300.5	204.7	177.2	171.7	166.2	154.1	140.9	138.7
62.5°	6857.6	4112.8	653.7	248.7	178.3	159.6	157.4	153.0	135.4	111.2	109.0
65°	6371.1	3341.3	440.2	206.9	153.0	139.8	140.9	133.2	110.1	82.5	80.3
67.5°	5660.2	2443.2	281.7	169.5	127.7	116.7	117.8	113.4	93.5	70.4	67.1
70°	4754.4	1617.8	183.8	128.8	102.4	90.2	96.8	97.9	79.2	57.2	55.0
72.5°	3485.5	955.3	128.8	95.7	74.8	62.7	79.2	81.4	63.8	42.9	40.7
75°	1986.5	453.4	96.8	69.3	46.2	44.0	61.6	61.6	44.0	28.6	26.4
77.5°	834.2	189.3	68.2	45.1	26.4	25.3	41.8	38.5	22.0	13.2	13.2
80°	241.0	84.7	36.3	22.0	11.0	9.9	16.5	12.1	5.5	2.2	2.2
82.5°	94.6	37.4	14.3	8.8	4.4	4.4	2.2	0.0	0.0	0.0	0.0
85°	56.1	15.4	6.6	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	3.3	2.2	0.0	0.0	0.0	0.0	0.0	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)