

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: P941446

Luminaire Tested: **GALN-SB5A-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941446
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-SB5A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA 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: 16484 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 141.7
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



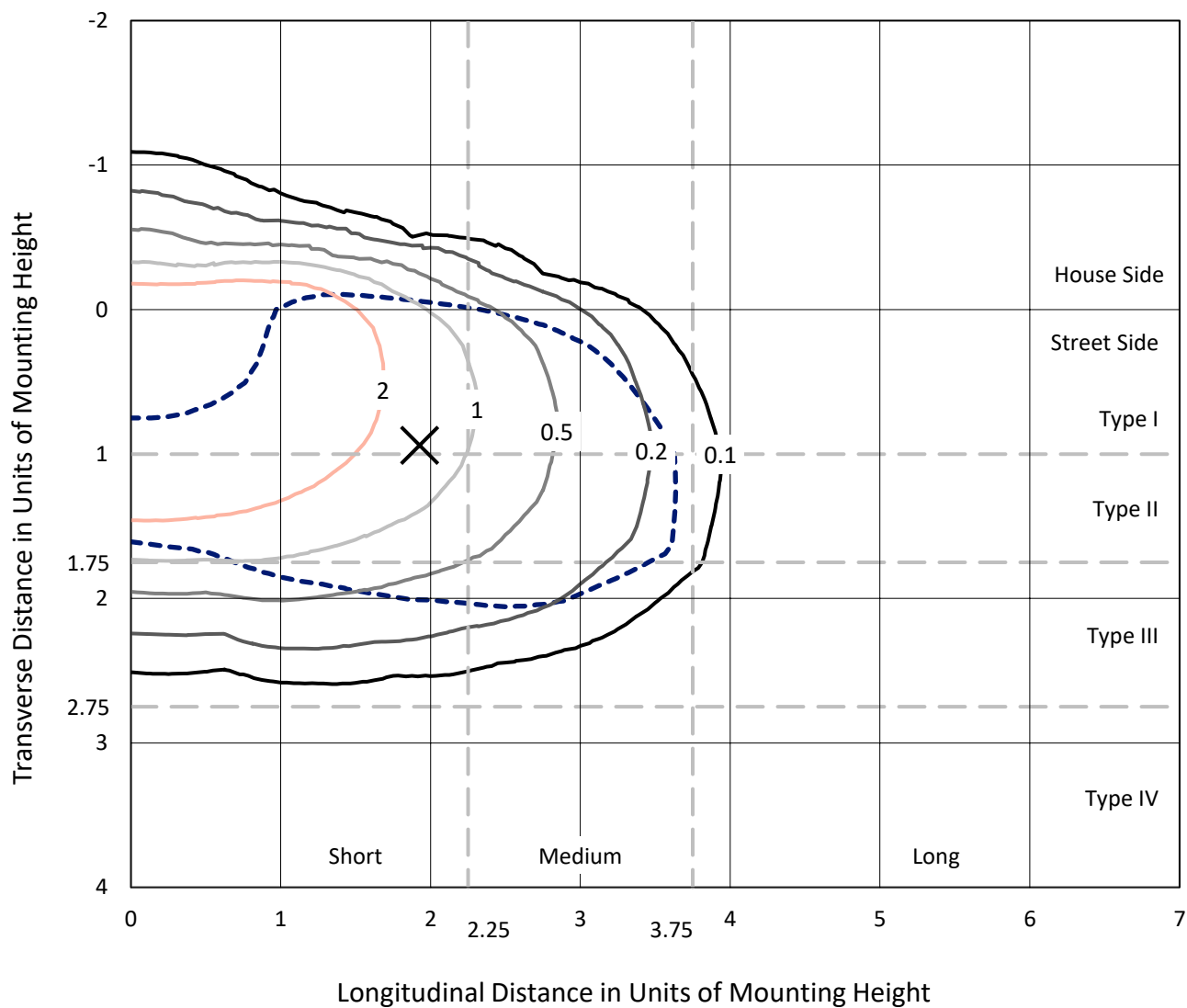
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

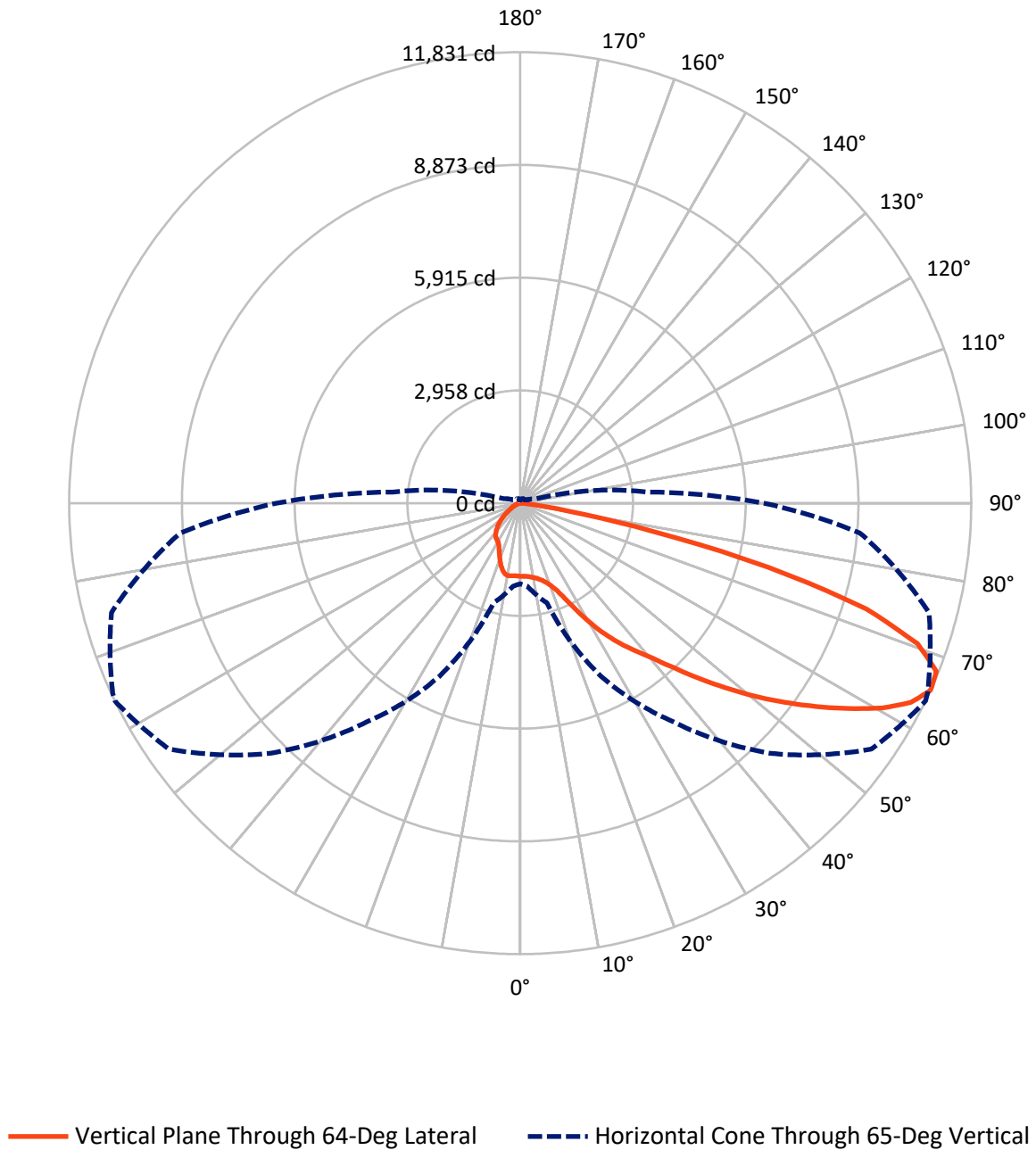


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2204.4	0.0	2204.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14279.6	0.0	14279.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	16484.0	0.0	16484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	1.1
10°-20°	479.8	2.9
20°-30°	909.1	5.5
30°-40°	1839.6	11.2
40°-50°	3133.8	19.0
50°-60°	4261.8	25.9
60°-70°	4002.0	24.3
70°-80°	1603.4	9.7
80°-90°	77.7	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°	16484.0	100.0
0°-180°	16484.0	100.0

Coefficient of Utilization



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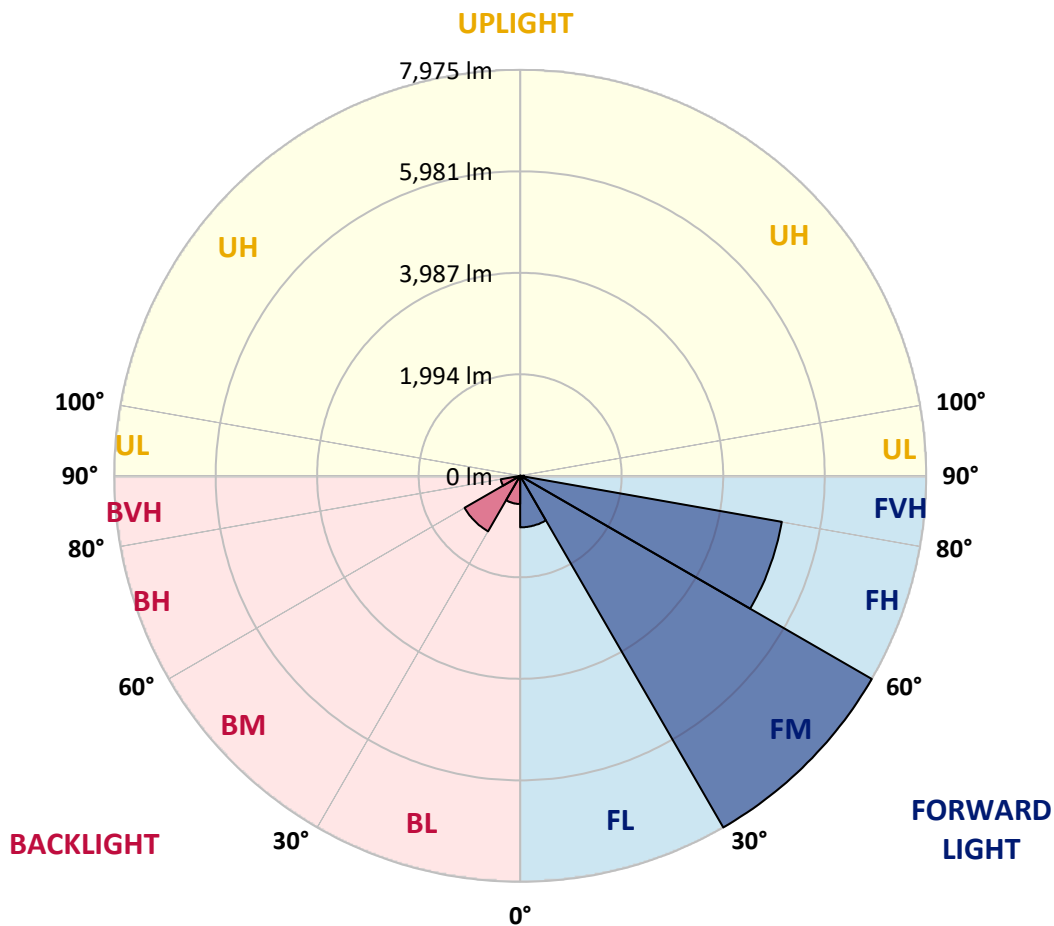
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.3	6.1			
FM	(30°-60°)	7974.9	48.4			
FH	(60°-80°)	5218.5	31.7			G3/7500
FVH	(80°-90°)	73.9	0.4			G1/100
BL	(0°-30°)	553.5	3.4	B2/1000		
BM	(30°-60°)	1260.2	7.6	B2/2500		
BH	(60°-80°)	386.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3
2.5°	1910.6	1923.9	1920.6	1917.3	1916.2	1918.4	1919.5	1918.4	1918.4	1918.4	1919.5
5°	1874.2	1885.2	1885.2	1892.9	1904.0	1917.3	1927.2	1929.4	1931.6	1934.9	1933.8
7.5°	1804.5	1813.4	1820.0	1845.4	1873.1	1908.4	1938.3	1953.7	1955.9	1968.1	1972.5
10°	1757.0	1768.1	1779.1	1805.7	1845.4	1898.5	1949.3	1986.9	1992.4	2021.1	2034.4
12.5°	1754.8	1765.9	1780.2	1809.0	1855.4	1911.7	1973.6	2027.8	2037.7	2079.7	2107.3
15°	1778.0	1791.3	1804.5	1839.9	1889.6	1958.1	2024.5	2091.9	2101.8	2161.5	2191.3
17.5°	1825.5	1843.2	1853.2	1888.5	1941.6	2017.8	2105.1	2182.5	2191.3	2260.9	2298.5
20°	1919.5	1940.5	1943.8	1972.5	2024.5	2106.2	2210.1	2306.2	2317.3	2396.9	2438.8
22.5°	2114.0	2143.8	2117.3	2131.6	2178.1	2259.8	2372.5	2494.1	2509.6	2600.2	2637.8
25°	2456.5	2498.5	2430.0	2405.7	2425.6	2510.7	2652.1	2805.7	2823.4	2896.3	2915.1
27.5°	3129.5	3075.4	2971.5	2869.8	2810.1	2858.8	3017.9	3208.0	3230.1	3300.8	3278.7
30°	3868.8	3821.3	3680.9	3455.5	3314.0	3306.3	3453.3	3665.4	3690.9	3758.3	3690.9
32.5°	4609.2	4563.9	4411.4	4134.0	3888.7	3767.1	3868.8	4104.2	4117.4	4160.5	4061.1
35°	5337.4	5291.0	5138.5	4854.5	4552.8	4276.5	4256.6	4521.9	4526.3	4571.6	4423.5
37.5°	6070.0	6031.4	5868.9	5590.4	5293.2	4911.9	4727.4	4917.5	4923.0	4967.2	4813.6
40°	6592.7	6609.3	6497.7	6282.2	6026.9	5610.3	5255.6	5338.5	5305.3	5379.4	5287.7
42.5°	7041.4	7074.5	6977.3	6869.0	6720.9	6354.0	5909.8	5895.4	5842.4	5882.2	5787.1
45°	7429.2	7456.9	7369.6	7344.2	7340.8	7083.4	6624.8	6538.6	6464.5	6456.8	6343.0
47.5°	7571.8	7624.8	7662.4	7747.5	7913.3	7805.0	7364.0	7230.3	7147.5	7086.7	6906.6
50°	7625.9	7682.3	7810.5	8058.0	8450.3	8496.7	8100.0	7949.7	7848.1	7737.6	7472.3
52.5°	7553.0	7653.6	7826.0	8242.6	8811.7	9051.5	8806.1	8674.6	8558.6	8378.5	7985.1
55°	7123.1	7223.7	7576.2	8240.4	8991.8	9440.4	9473.6	9415.0	9284.6	9000.6	8399.5
57.5°	6217.0	6366.2	6924.2	7959.7	8988.5	9775.3	10127.8	10169.8	10023.9	9617.2	8725.5
60°	4961.7	5163.9	5844.6	7337.5	8711.1	9956.5	10701.3	10911.3	10756.5	10225.0	8989.6
62.5°	3462.1	3696.4	4340.6	6362.9	8076.8	9826.1	11120.1	11508.0	11390.8	10768.7	9091.2
65°	2111.7	2186.9	2706.3	5007.0	6998.3	9280.2	11249.4	11830.7	11792.0	11101.3	8941.0
67.5°	1406.7	1469.7	1618.9	3433.4	5432.4	8189.5	10940.0	11774.3	11785.3	11047.2	8390.6
70°	847.6	901.7	999.0	1996.8	3520.7	6482.2	9981.9	11056.0	11120.1	10323.4	7347.5
72.5°	349.2	385.7	474.1	905.0	1823.3	4114.1	7948.6	9492.4	9641.6	8680.2	5639.1
75°	197.8	216.6	278.5	454.2	791.2	1917.3	4814.7	6738.6	6958.5	5982.7	3392.5
77.5°	131.5	140.3	180.1	293.9	445.3	654.2	2057.6	3510.7	3930.7	3267.6	1468.6
80°	88.4	96.1	123.8	196.7	289.5	280.7	655.3	1300.6	1600.1	1122.7	358.0
82.5°	59.7	60.8	88.4	129.3	183.4	135.9	193.4	404.4	508.3	324.9	135.9
85°	34.3	33.2	65.2	75.1	81.8	56.4	58.6	121.6	159.1	137.0	77.4
87.5°	4.4	6.6	25.4	19.9	11.1	12.2	12.2	21.0	30.9	33.2	16.6
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°	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3	1917.3
2.5°	1919.5	1918.4	1915.1	1911.7	1904.0	1899.6	1901.8	1899.6	1898.5	1899.6	1904.0
5°	1933.8	1930.5	1921.7	1910.6	1895.2	1876.4	1864.2	1846.5	1830.0	1820.0	1822.2
7.5°	1972.5	1969.2	1957.0	1926.1	1876.4	1797.9	1726.1	1663.1	1615.6	1588.0	1589.1
10°	2034.4	2028.9	2010.1	1941.6	1811.2	1639.9	1497.3	1379.1	1301.7	1265.3	1262.0
12.5°	2107.3	2100.7	2067.5	1927.2	1687.4	1420.0	1223.3	1091.8	1020.0	987.9	984.6
15°	2193.5	2184.7	2119.5	1858.7	1507.3	1176.9	996.8	898.4	852.0	823.3	824.4
17.5°	2300.7	2285.2	2158.2	1755.9	1311.7	991.2	857.5	783.5	742.6	715.0	712.8
20°	2439.9	2414.5	2189.1	1633.3	1131.6	874.1	763.6	701.7	670.8	646.5	642.0
22.5°	2634.4	2598.0	2226.7	1500.7	1004.5	793.4	694.0	648.7	623.2	595.6	591.2
25°	2875.3	2832.2	2273.1	1378.0	917.2	723.8	643.1	605.6	575.7	543.7	540.4
27.5°	3212.4	3135.0	2328.3	1277.4	842.0	664.1	596.7	554.7	520.5	494.0	488.4
30°	3588.1	3461.0	2377.0	1216.7	773.5	608.9	535.9	494.0	461.9	443.1	439.8
32.5°	3943.9	3771.5	2409.0	1190.1	711.7	545.9	469.6	424.3	400.0	394.5	397.8
35°	4279.9	4052.2	2405.7	1164.7	656.4	482.9	404.4	358.0	339.3	342.6	342.6
37.5°	4666.6	4351.7	2382.5	1124.9	611.1	425.4	348.1	307.2	290.6	291.7	296.2
40°	5116.4	4697.6	2368.1	1049.8	561.4	372.4	301.7	268.5	256.4	252.0	250.8
42.5°	5596.0	5032.4	2370.3	964.7	499.5	324.9	269.6	242.0	231.0	227.6	226.5
45°	6077.8	5351.8	2373.6	876.3	434.3	288.4	246.4	223.2	216.6	212.2	212.2
47.5°	6530.8	5623.6	2311.8	781.3	370.2	260.8	227.6	212.2	206.6	201.1	201.1
50°	6953.0	5804.8	2162.6	670.8	319.4	238.7	213.3	202.2	196.7	191.2	191.2
52.5°	7281.2	5833.6	1916.2	556.9	284.0	222.1	204.4	194.5	187.9	182.3	181.2
55°	7427.0	5653.4	1565.9	450.9	256.4	207.7	195.6	185.6	177.9	172.4	171.3
57.5°	7389.5	5274.4	1221.1	362.5	229.9	193.4	184.5	177.9	169.1	160.2	159.1
60°	7204.9	4767.2	920.5	301.7	205.5	177.9	172.4	166.9	154.7	141.4	139.2
62.5°	6885.6	4129.6	656.4	249.7	179.0	160.2	158.0	153.6	135.9	111.6	109.4
65°	6397.1	3354.9	442.0	207.7	153.6	140.3	141.4	133.7	110.5	82.9	80.7
67.5°	5683.3	2453.2	282.9	170.2	128.2	117.1	118.2	113.8	93.9	70.7	67.4
70°	4773.8	1624.4	184.5	129.3	102.8	90.6	97.2	98.3	79.6	57.5	55.3
72.5°	3499.7	959.2	129.3	96.1	75.1	63.0	79.6	81.8	64.1	43.1	40.9
75°	1994.6	455.3	97.2	69.6	46.4	44.2	61.9	61.9	44.2	28.7	26.5
77.5°	837.6	190.1	68.5	45.3	26.5	25.4	42.0	38.7	22.1	13.3	13.3
80°	242.0	85.1	36.5	22.1	11.1	9.9	16.6	12.2	5.5	2.2	2.2
82.5°	95.0	37.6	14.4	8.8	4.4	4.4	2.2	0.0	0.0	0.0	0.0
85°	56.4	15.5	6.6	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	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)