

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: P949151

Luminaire Tested: **GALN-SB4A-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16899 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

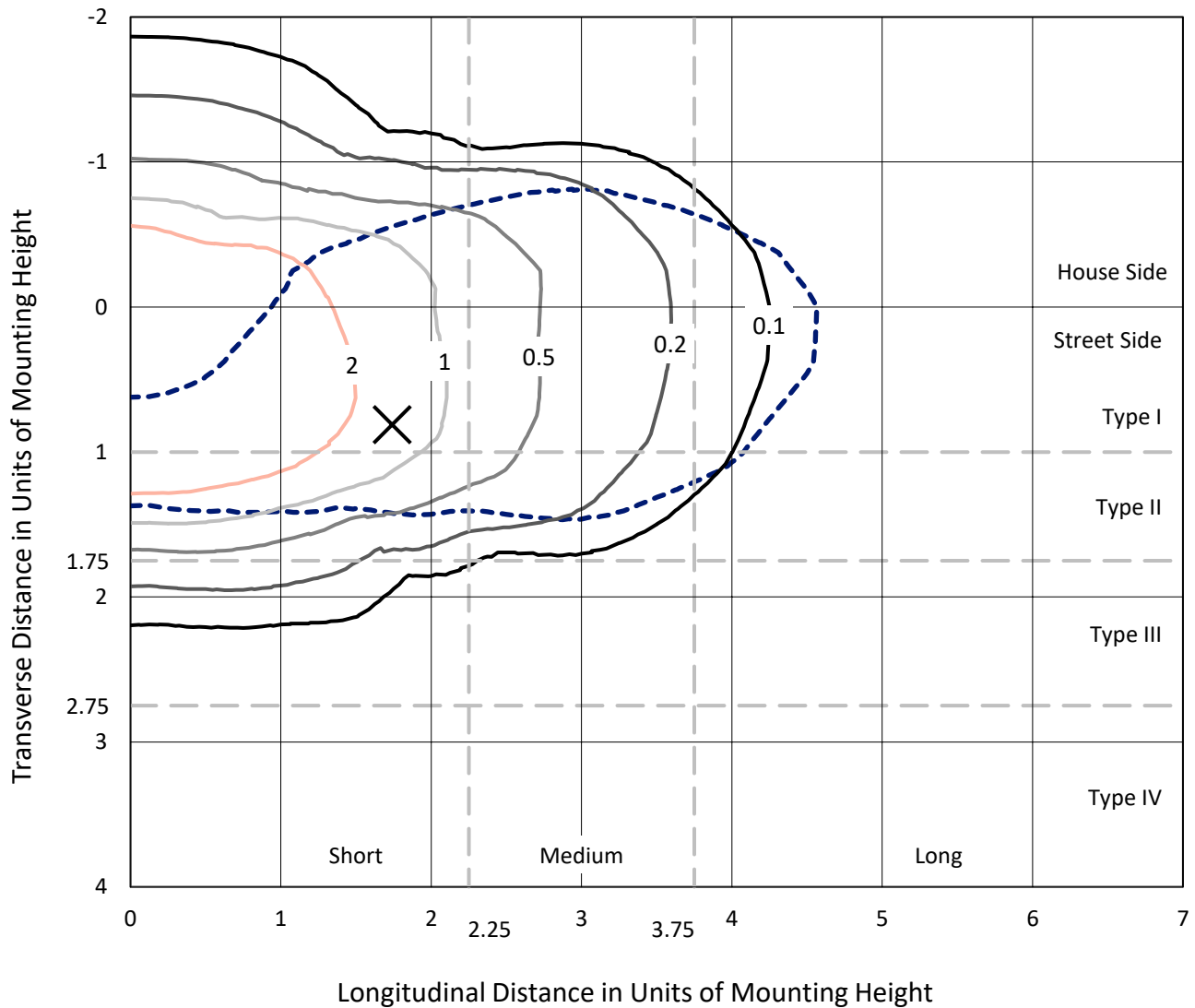


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

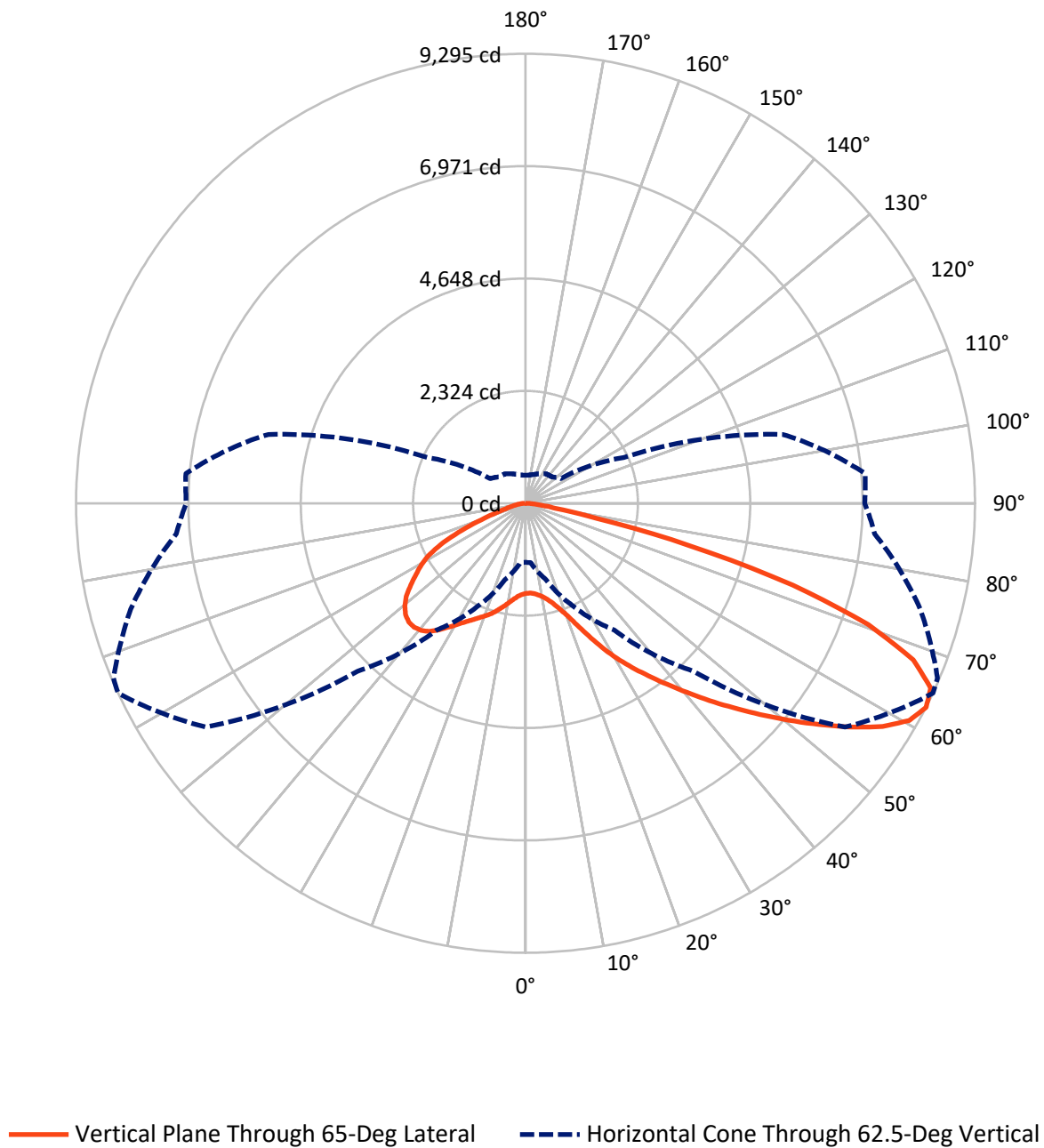


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5332.6	0.0	5332.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	11566.4	0.0	11566.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	16899.0	0.0	16899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	1.1
10°-20°	629.6	3.7
20°-30°	1276.6	7.6
30°-40°	2209.0	13.1
40°-50°	3343.0	19.8
50°-60°	3919.4	23.2
60°-70°	3286.0	19.4
70°-80°	1814.1	10.7
80°-90°	235.6	1.4
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°	16899.0	100.0
0°-180°	16899.0	100.0

Coefficient of Utilization



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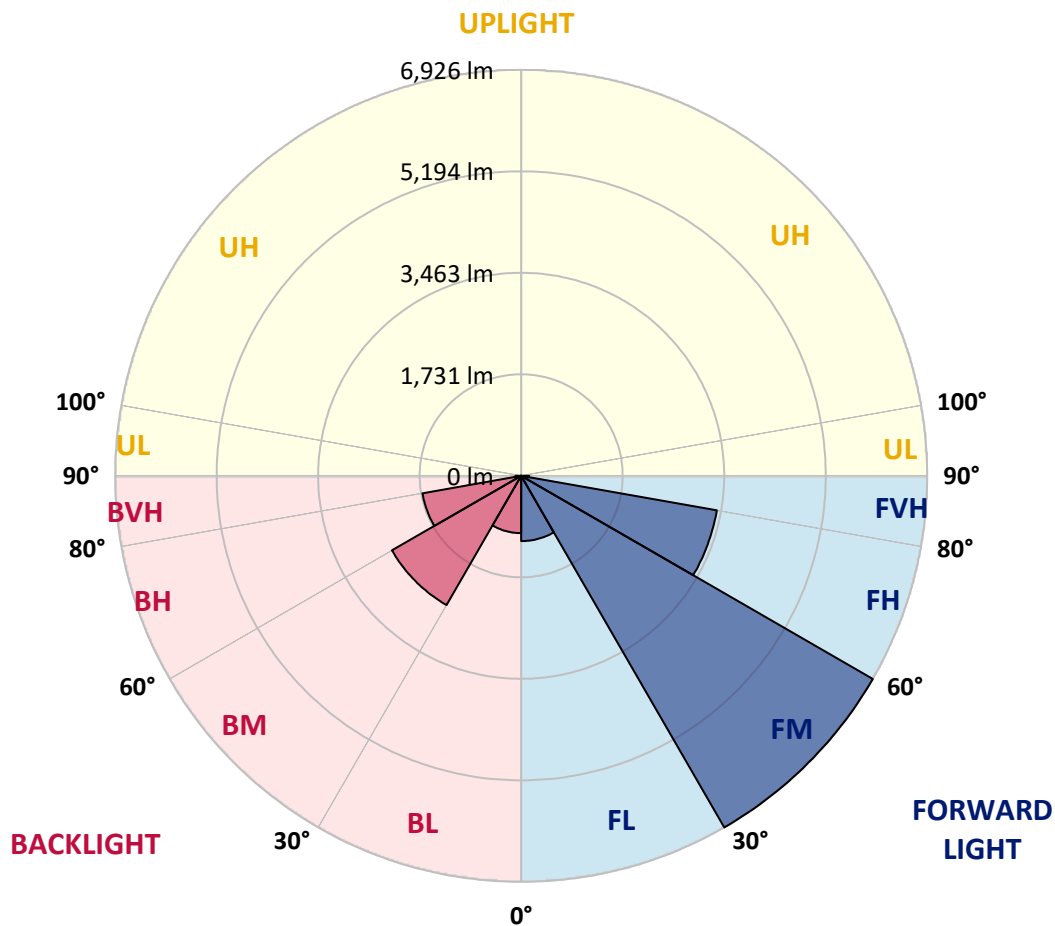
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1113.9	6.6			
FM	(30°-60°)	6925.8	41.0			
FH	(60°-80°)	3389.4	20.1			G2/5000
FVH	(80°-90°)	137.3	0.8			G2/225
BL	(0°-30°)	977.9	5.8	B2/1000		
BM	(30°-60°)	2545.7	15.1	B3/5000		
BH	(60°-80°)	1710.7	10.1	B3/2500		G3/2500
BVH	(80°-90°)	98.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2
2.5°	1849.9	1844.7	1849.0	1849.0	1850.8	1849.9	1856.1	1857.8	1860.4	1865.7	1865.7
5°	1831.5	1830.6	1838.5	1845.5	1852.6	1858.7	1866.6	1878.0	1879.7	1885.9	1893.8
7.5°	1825.4	1820.1	1832.4	1841.2	1857.8	1872.7	1893.8	1913.0	1920.9	1923.6	1938.5
10°	1872.7	1864.0	1875.3	1880.6	1894.6	1909.5	1934.1	1964.8	1973.5	1984.1	2000.7
12.5°	1953.4	1943.7	1960.4	1968.3	1981.4	1994.6	2011.2	2041.1	2045.4	2064.7	2080.5
15°	2063.8	2052.4	2063.0	2072.6	2094.5	2106.8	2123.5	2152.4	2152.4	2167.3	2178.7
17.5°	2213.8	2198.9	2206.8	2210.3	2224.3	2242.7	2270.8	2296.2	2309.3	2304.1	2288.3
20°	2437.3	2418.9	2418.9	2401.4	2396.1	2411.0	2447.9	2482.9	2497.0	2469.8	2431.2
22.5°	2773.1	2746.8	2731.9	2672.3	2648.6	2650.4	2687.2	2730.2	2741.6	2693.3	2606.5
25°	3200.1	3158.9	3138.7	3051.1	2997.6	2951.1	2980.0	3035.3	3051.1	2991.4	2851.2
27.5°	3627.1	3629.7	3610.4	3505.2	3416.7	3331.6	3316.7	3374.6	3391.2	3323.7	3150.1
30°	4225.9	4163.6	4126.8	4000.6	3874.3	3755.1	3693.7	3717.4	3721.8	3641.1	3439.5
32.5°	4742.3	4726.5	4647.6	4537.1	4374.9	4188.2	4085.6	4047.9	4040.9	3926.0	3686.7
35°	5330.6	5321.8	5238.5	5107.0	4931.7	4672.1	4487.2	4379.3	4370.6	4209.2	3931.3
37.5°	5928.5	5928.5	5847.0	5703.2	5521.7	5197.3	4915.9	4744.9	4716.9	4506.4	4180.3
40°	6405.5	6376.5	6391.4	6330.9	6123.2	5778.6	5392.0	5143.8	5106.1	4853.6	4445.1
42.5°	6676.4	6666.7	6756.2	6823.7	6738.6	6463.3	5916.2	5576.1	5523.5	5235.9	4750.2
45°	6736.9	6726.4	6885.9	7133.2	7252.4	7139.3	6486.1	6031.1	5967.1	5635.7	5077.2
47.5°	6597.5	6576.4	6810.5	7200.7	7582.9	7781.9	7103.4	6524.7	6431.8	6025.0	5413.0
50°	6178.4	6158.2	6512.4	7030.6	7694.3	8218.6	7773.2	7048.1	6906.1	6442.3	5752.3
52.5°	5267.5	5277.1	5832.1	6544.0	7547.9	8490.4	8350.1	7599.6	7428.6	6869.3	6070.6
55°	4103.1	4124.2	4806.3	5590.1	6962.2	8449.1	8743.7	8167.7	7997.6	7270.8	6399.3
57.5°	2938.0	3030.9	3670.0	4446.0	5837.3	7796.0	8829.7	8707.8	8543.0	7709.2	6721.1
60°	1904.3	1920.9	2578.5	3360.5	4445.1	6635.2	8655.2	9117.2	8988.3	8156.3	6990.3
62.5°	1220.4	1231.8	1632.5	2350.5	3199.2	4908.9	8067.8	9295.2	9255.7	8451.8	7248.9
65°	896.9	888.1	1096.8	1553.6	2155.0	3027.4	6927.1	9209.3	9287.3	8636.8	7462.8
67.5°	748.7	736.5	839.0	1075.8	1587.8	1719.3	5125.4	8650.8	8936.6	8615.7	7619.8
70°	682.1	671.6	733.8	798.7	1238.8	1151.2	2583.8	7520.7	7960.8	8376.4	7594.3
72.5°	577.8	559.4	644.4	709.3	963.5	882.9	1067.9	5776.8	6313.4	7609.2	7236.6
75°	448.0	435.7	508.5	624.2	724.2	689.1	675.1	3507.8	4093.5	5884.7	6330.9
77.5°	355.1	338.4	405.1	486.6	651.4	519.9	491.9	1510.6	2091.0	3756.8	4737.0
80°	267.4	252.5	307.7	384.9	500.6	391.9	318.3	616.3	788.2	1903.4	2382.1
82.5°	190.3	177.1	214.8	282.3	336.7	351.6	195.5	345.4	388.4	733.8	532.2
85°	121.9	114.0	143.8	177.1	213.9	226.2	119.2	180.6	198.1	302.5	221.8
87.5°	66.6	54.4	77.2	82.4	99.1	90.3	57.0	65.8	71.0	109.6	93.8
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°	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2
2.5°	1869.2	1871.8	1880.6	1883.2	1889.4	1897.3	1902.5	1907.8	1907.8	1913.0	1913.0
5°	1894.6	1900.8	1919.2	1928.8	1944.6	1960.4	1970.0	1981.4	1988.4	1992.0	1993.7
7.5°	1943.7	1953.4	1979.7	1996.3	2023.5	2045.4	2060.3	2076.1	2079.6	2089.3	2085.8
10°	2010.4	2021.8	2051.6	2083.1	2115.6	2142.8	2156.8	2168.2	2172.6	2174.3	2169.9
12.5°	2086.6	2103.3	2141.9	2180.5	2214.6	2238.3	2241.8	2239.2	2226.9	2216.4	2216.4
15°	2180.5	2195.4	2238.3	2280.4	2313.7	2318.1	2296.2	2282.2	2267.3	2264.6	2264.6
17.5°	2292.7	2300.6	2340.0	2381.2	2383.9	2369.0	2336.5	2323.4	2309.3	2299.7	2300.6
20°	2423.3	2420.7	2448.7	2466.3	2447.9	2402.3	2353.2	2331.3	2317.2	2305.8	2306.7
22.5°	2579.4	2559.2	2555.7	2551.3	2502.2	2406.7	2340.0	2312.0	2290.0	2274.3	2279.5
25°	2806.4	2729.3	2675.8	2646.0	2535.5	2383.0	2297.9	2235.7	2194.5	2167.3	2177.8
27.5°	3090.5	2960.8	2825.7	2753.0	2535.5	2334.8	2196.2	2095.4	2027.9	1999.8	2013.9
30°	3361.4	3225.5	3026.5	2881.8	2529.4	2255.9	2032.3	1892.0	1813.1	1785.0	1801.7
32.5°	3592.9	3444.7	3239.6	3023.0	2514.5	2127.8	1828.9	1673.7	1597.4	1564.1	1580.8
35°	3807.7	3649.9	3453.5	3178.2	2475.0	1940.2	1605.3	1487.0	1401.9	1348.4	1366.0
37.5°	4027.7	3840.1	3656.0	3318.5	2404.0	1721.0	1433.5	1332.6	1232.7	1160.8	1180.1
40°	4267.1	4042.6	3872.6	3401.8	2287.4	1512.4	1300.2	1208.1	1102.1	1025.8	1040.7
42.5°	4546.8	4285.5	4113.7	3444.7	2127.8	1364.2	1213.4	1123.1	1023.2	960.9	973.2
45°	4838.7	4552.9	4333.7	3443.8	1949.9	1294.9	1185.4	1095.9	985.5	920.6	931.1
47.5°	5144.7	4832.6	4524.0	3387.7	1795.6	1304.6	1169.6	1037.2	915.3	852.2	861.0
50°	5451.6	5138.6	4708.1	3282.5	1729.8	1283.5	1110.8	954.8	811.0	754.0	757.5
52.5°	5755.8	5463.8	4866.8	3132.6	1663.2	1205.5	1035.4	847.8	768.0	728.6	728.6
55°	6061.8	5785.6	5039.5	2914.3	1496.6	1114.3	909.2	807.5	733.8	697.9	694.4
57.5°	6368.6	6157.3	5203.5	2696.0	1287.1	1002.1	839.9	758.4	699.6	669.0	663.7
60°	6687.8	6582.6	5372.7	2495.2	1080.1	858.3	789.1	718.9	659.3	625.1	622.5
62.5°	7016.6	7050.7	5505.1	2236.6	889.9	770.7	743.5	671.6	613.7	581.3	580.4
65°	7348.0	7502.3	5591.9	1878.0	721.6	687.4	694.4	619.9	561.1	533.1	532.2
67.5°	7597.8	7827.5	5567.3	1421.2	591.8	608.5	633.0	565.5	510.3	488.3	489.2
70°	7625.9	7789.0	5325.3	973.2	495.4	531.3	564.6	512.0	455.0	439.2	440.1
72.5°	7252.4	7262.9	4651.1	635.6	419.1	466.4	492.7	457.7	402.4	386.6	385.8
75°	6273.1	6006.5	3414.9	419.1	350.7	400.7	425.2	400.7	347.2	350.7	338.4
77.5°	4752.8	4253.9	2073.5	298.1	292.8	336.7	370.0	352.4	306.9	344.6	303.4
80°	2448.7	2301.4	925.0	222.7	231.5	269.2	304.2	281.4	242.9	231.5	211.3
82.5°	561.1	652.3	364.7	159.6	167.5	193.8	232.3	211.3	174.5	147.3	145.5
85°	196.4	214.8	161.3	99.9	98.2	121.0	157.8	141.2	118.4	94.7	99.9
87.5°	62.2	81.5	60.5	40.3	42.1	54.4	72.8	66.6	55.2	35.9	37.7
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)