

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: P940937

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20947 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - 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



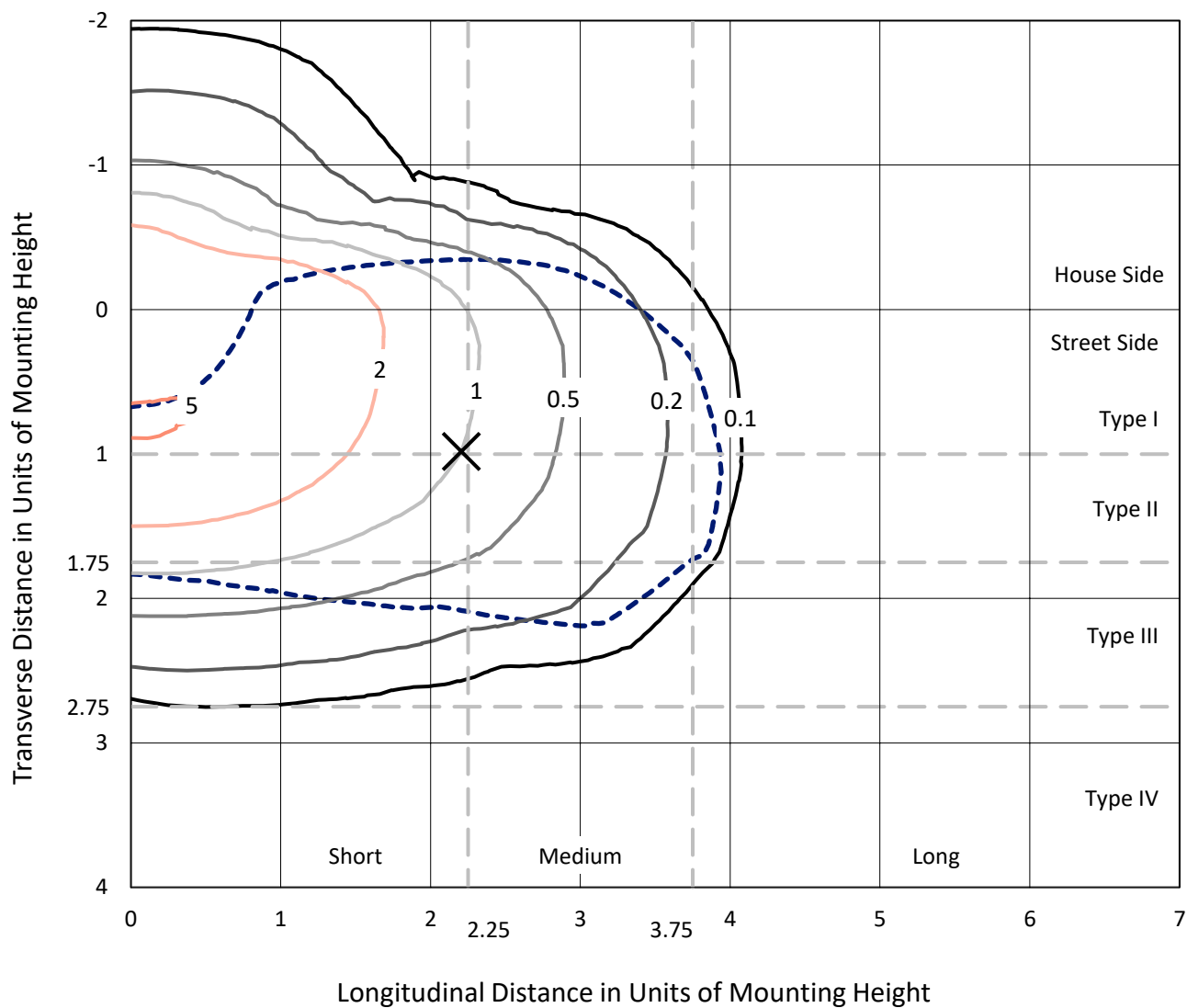
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

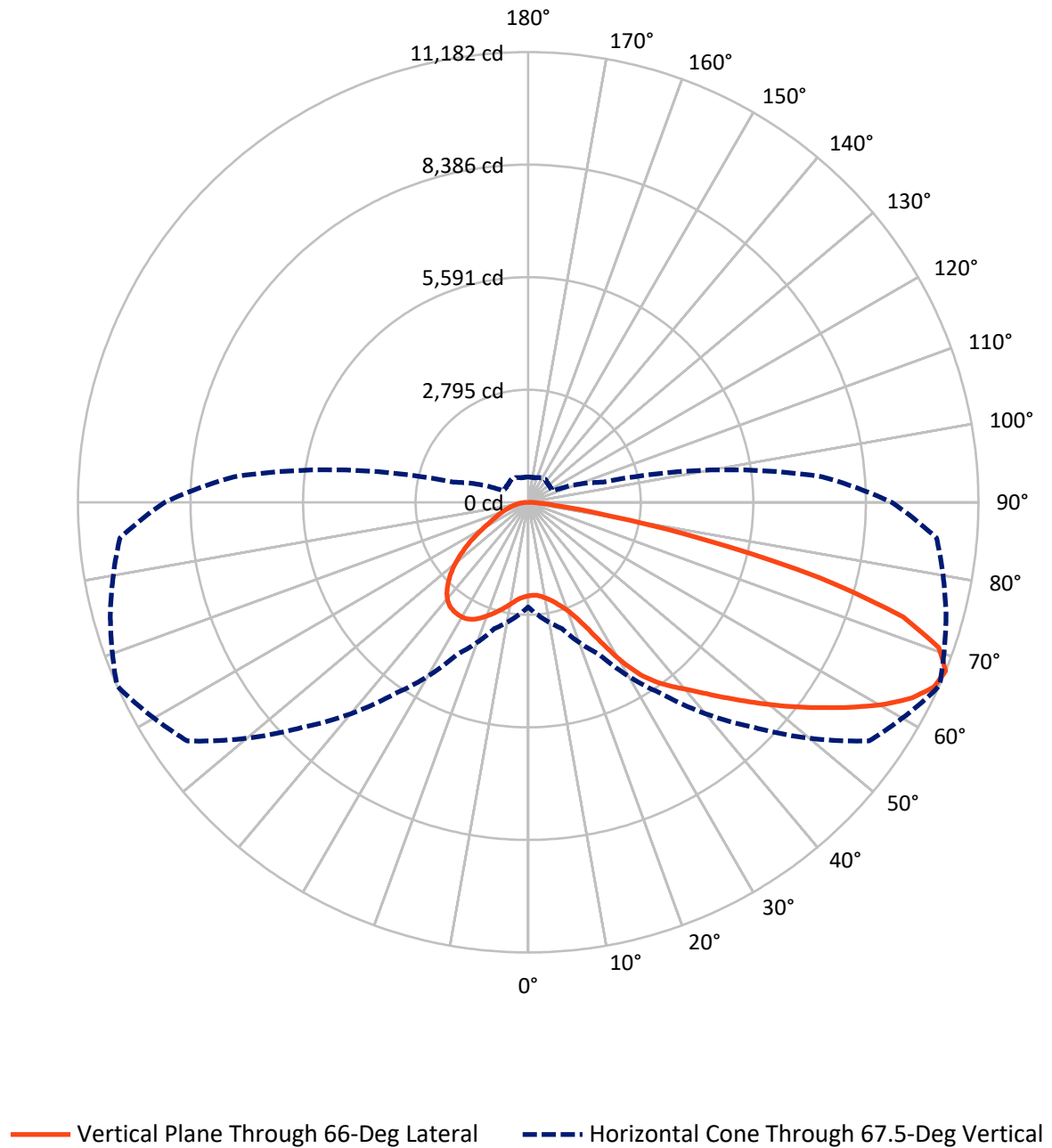


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5208.4	0.0	5208.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	15738.6	0.0	15738.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	20947.0	0.0	20947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	1.1
10°-20°	761.0	3.6
20°-30°	1466.8	7.0
30°-40°	2571.9	12.3
40°-50°	3823.6	18.3
50°-60°	4846.8	23.1
60°-70°	4742.5	22.6
70°-80°	2262.2	10.8
80°-90°	241.8	1.2
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°	20947.0	100.0
0°-180°	20947.0	100.0

Coefficient of Utilization



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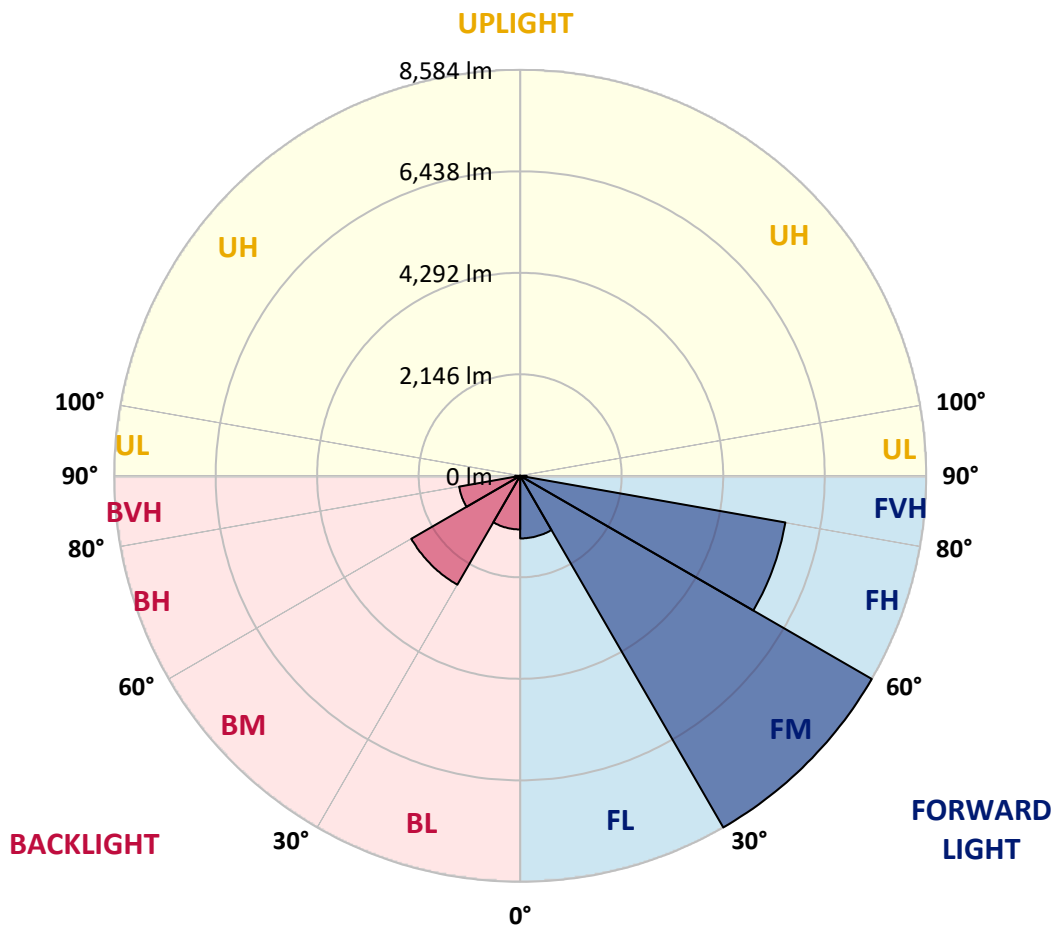
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1323.6	6.3			
FM	(30°-60°)	8583.9	41.0			
FH	(60°-80°)	5694.0	27.2			G3/7500
FVH	(80°-90°)	137.1	0.7			G2/225
BL	(0°-30°)	1134.6	5.4	B3/2500		
BM	(30°-60°)	2658.4	12.7	B3/5000		
BH	(60°-80°)	1310.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	104.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3
2.5°	2299.1	2312.3	2309.0	2303.5	2302.4	2304.6	2307.9	2311.2	2310.1	2315.6	2324.4
5°	2292.5	2305.7	2304.6	2304.6	2309.0	2317.8	2323.3	2328.8	2323.3	2329.9	2342.0
7.5°	2296.9	2306.8	2311.2	2315.6	2326.6	2343.1	2356.3	2368.4	2361.8	2369.5	2384.9
10°	2353.0	2360.7	2365.1	2365.1	2372.8	2391.5	2404.7	2426.8	2421.2	2433.4	2453.2
12.5°	2455.4	2463.1	2463.1	2458.7	2464.2	2476.3	2480.7	2504.9	2495.0	2514.8	2534.6
15°	2580.8	2596.2	2584.1	2576.4	2578.6	2590.7	2589.6	2608.3	2598.4	2614.9	2632.6
17.5°	2719.5	2739.3	2719.5	2718.4	2714.0	2727.2	2728.3	2744.8	2727.2	2739.3	2751.4
20°	2883.5	2911.0	2894.5	2900.0	2890.1	2895.6	2901.1	2925.3	2897.8	2906.6	2903.3
22.5°	3114.6	3147.6	3130.0	3150.9	3144.3	3139.9	3138.8	3181.7	3138.8	3142.1	3110.2
25°	3451.4	3491.0	3460.2	3488.8	3488.8	3503.1	3519.6	3574.6	3503.1	3482.2	3399.7
27.5°	3948.8	3988.5	3927.9	3945.5	3940.0	3975.3	3957.6	4094.1	4017.1	3983.0	3816.8
30°	4547.5	4618.0	4503.5	4499.1	4493.6	4549.7	4575.1	4665.3	4587.2	4553.0	4352.7
32.5°	5194.7	5268.4	5131.9	5092.3	5071.4	5105.5	5084.6	5157.3	5103.3	5050.5	4802.9
35°	5879.2	5951.9	5822.0	5745.0	5661.3	5589.8	5514.9	5533.7	5483.0	5402.7	5146.3
37.5°	6526.4	6659.5	6522.0	6439.4	6285.3	6145.6	5936.5	5849.5	5802.2	5728.5	5469.8
40°	7185.6	7261.5	7157.0	7086.6	6919.3	6700.3	6365.7	6181.9	6118.1	6046.5	5827.5
42.5°	7671.0	7743.6	7687.5	7639.0	7508.1	7253.8	6821.3	6591.3	6498.9	6418.5	6232.5
45°	8056.2	8110.1	8074.9	8092.5	8036.3	7789.8	7293.5	7030.4	6934.7	6836.7	6690.4
47.5°	8211.3	8268.6	8324.7	8429.3	8525.0	8343.4	7800.8	7505.9	7404.6	7304.5	7160.3
50°	8193.7	8252.1	8414.9	8637.3	8934.4	8873.9	8335.7	8012.1	7918.6	7804.1	7671.0
52.5°	8052.9	8118.9	8328.0	8697.8	9171.0	9271.2	8880.5	8534.9	8446.9	8310.4	8177.2
55°	7683.1	7722.7	8036.3	8560.2	9227.2	9548.5	9414.3	9091.8	9003.7	8813.3	8668.1
57.5°	6997.4	7054.6	7511.4	8189.3	9086.3	9736.7	9883.1	9677.3	9592.6	9318.5	9166.6
60°	6102.6	6194.0	6716.8	7566.4	8727.5	9735.6	10309.0	10252.9	10182.5	9816.0	9657.5
62.5°	5090.1	5195.8	5698.7	6686.0	8100.2	9459.4	10575.4	10734.9	10698.6	10274.9	10072.4
65°	3909.2	3981.9	4482.6	5546.9	7124.0	8866.2	10606.2	11064.0	11070.6	10623.8	10289.2
67.5°	2602.8	2812.0	3246.7	4162.3	5816.5	7896.6	10335.4	11117.9	11181.8	10743.7	10180.3
70°	1270.1	1545.2	1971.1	2705.2	4162.3	6409.7	9627.8	10675.5	10817.5	10393.8	9530.9
72.5°	527.2	616.3	848.5	1335.0	2389.3	4325.2	8205.8	9475.9	9738.9	9209.6	8013.2
75°	355.5	385.2	485.4	684.6	1088.5	2132.9	5917.8	7065.6	7489.4	6955.6	5685.5
77.5°	274.0	292.8	353.3	478.7	647.1	806.7	3167.4	4258.1	4477.1	4144.7	2958.3
80°	215.7	230.0	264.1	348.9	458.9	431.4	1079.7	1929.3	2055.9	1724.6	950.9
82.5°	187.1	192.6	189.3	236.6	304.9	252.0	354.4	712.1	785.8	570.1	310.4
85°	135.4	150.8	157.4	146.4	161.8	127.7	145.3	252.0	277.3	247.6	175.0
87.5°	55.0	81.4	100.2	94.6	59.4	36.3	45.1	73.7	84.7	92.4	57.2
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°	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3
2.5°	2325.5	2333.2	2338.7	2345.3	2349.7	2356.3	2369.5	2377.2	2378.3	2383.8	2382.7
5°	2346.4	2357.4	2369.5	2387.1	2406.9	2423.5	2448.8	2466.4	2473.0	2478.5	2477.4
7.5°	2391.5	2406.9	2429.0	2459.8	2488.4	2510.4	2541.2	2562.1	2583.0	2590.7	2591.8
10°	2458.7	2480.7	2512.6	2554.4	2585.2	2613.8	2645.8	2663.4	2684.3	2693.1	2697.5
12.5°	2542.3	2565.4	2607.2	2665.6	2694.2	2714.0	2725.0	2720.6	2725.0	2732.7	2734.9
15°	2638.1	2663.4	2710.7	2773.4	2793.2	2775.6	2751.4	2729.4	2726.1	2728.3	2736.0
17.5°	2751.4	2770.1	2825.2	2878.0	2863.7	2791.0	2738.2	2703.0	2685.4	2679.9	2687.6
20°	2909.9	2909.9	2955.0	2988.0	2892.3	2769.0	2686.5	2629.3	2592.9	2577.5	2574.2
22.5°	3102.5	3084.9	3113.5	3090.4	2886.8	2707.4	2592.9	2493.9	2438.9	2416.8	2413.5
25°	3346.8	3325.9	3318.2	3175.1	2847.2	2609.4	2423.5	2303.5	2255.1	2243.0	2245.2
27.5°	3715.5	3662.7	3562.5	3221.4	2774.5	2455.4	2225.3	2114.2	2086.7	2087.8	2091.1
30°	4206.4	4100.7	3855.3	3229.1	2655.7	2237.5	2022.8	1943.6	1930.4	1935.9	1954.6
32.5°	4660.9	4560.8	4154.6	3193.8	2473.0	2023.9	1841.3	1788.4	1768.6	1775.2	1784.0
35°	5017.5	4990.0	4432.0	3144.3	2248.5	1823.6	1678.4	1633.2	1594.7	1585.9	1592.5
37.5°	5354.3	5343.3	4640.0	3075.0	2026.1	1681.7	1547.4	1488.0	1431.8	1401.0	1402.1
40°	5724.1	5713.0	4776.5	2968.2	1829.1	1558.4	1429.6	1351.5	1282.2	1226.0	1231.5
42.5°	6140.1	6075.1	4841.4	2815.3	1661.9	1453.9	1333.9	1228.2	1136.9	1085.2	1088.5
45°	6594.6	6448.2	4840.3	2620.5	1521.0	1358.1	1231.5	1081.9	997.1	948.7	946.5
47.5°	7076.7	6804.8	4780.9	2404.7	1384.5	1252.4	1073.1	958.6	902.5	872.8	866.1
50°	7574.1	7138.3	4679.6	2157.1	1244.7	1132.5	974.0	895.9	852.9	825.4	815.5
52.5°	8041.9	7440.9	4557.5	1876.5	1102.8	1015.8	930.0	869.4	824.3	793.5	780.3
55°	8476.6	7701.8	4384.7	1589.2	987.2	937.7	909.1	858.4	806.7	770.4	756.1
57.5°	8862.9	7871.3	4086.4	1319.6	904.7	883.8	887.1	839.7	780.3	749.5	729.7
60°	9184.2	7995.6	3645.1	1069.8	837.5	830.9	852.9	804.5	735.2	700.0	684.6
62.5°	9376.8	7993.4	3103.6	876.1	780.3	782.5	807.8	760.5	690.1	657.0	647.1
65°	9360.3	7797.5	2509.3	749.5	725.3	727.5	760.5	712.1	652.6	632.8	631.7
67.5°	9029.1	7319.9	1924.9	666.9	664.7	674.6	713.2	679.1	629.5	627.3	630.6
70°	8132.1	6328.3	1386.7	600.9	602.0	616.3	666.9	658.1	617.4	621.8	620.7
72.5°	6520.9	4824.9	931.1	531.6	532.7	555.8	622.9	641.6	605.3	663.6	672.4
75°	4342.8	3009.0	598.7	457.8	458.9	488.7	584.4	609.7	572.3	661.4	666.9
77.5°	2086.7	1352.6	433.6	385.2	385.2	412.7	505.2	545.9	487.6	514.0	471.0
80°	720.9	508.5	341.2	310.4	303.8	322.5	425.9	473.2	420.4	387.4	363.2
82.5°	283.9	264.1	274.0	241.0	219.0	231.1	331.3	390.7	309.3	279.5	278.4
85°	162.9	171.7	193.7	159.6	126.6	142.0	243.2	280.6	233.3	205.8	210.2
87.5°	44.0	60.5	89.1	82.5	57.2	60.5	115.6	155.2	134.3	103.5	106.8
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)