

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: P956635

Luminaire Tested: **GALN-SB9B-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48383 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 329.5
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

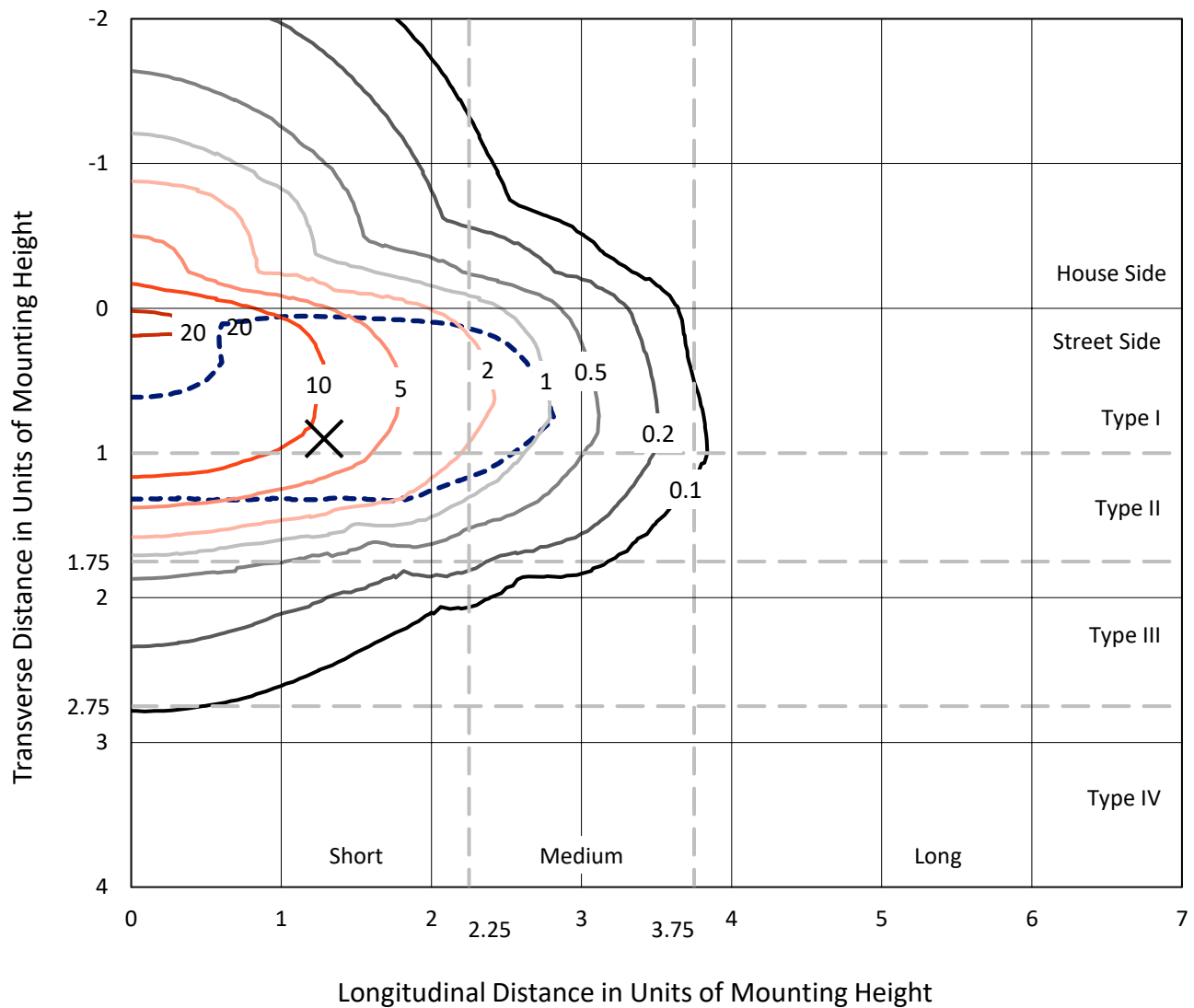


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

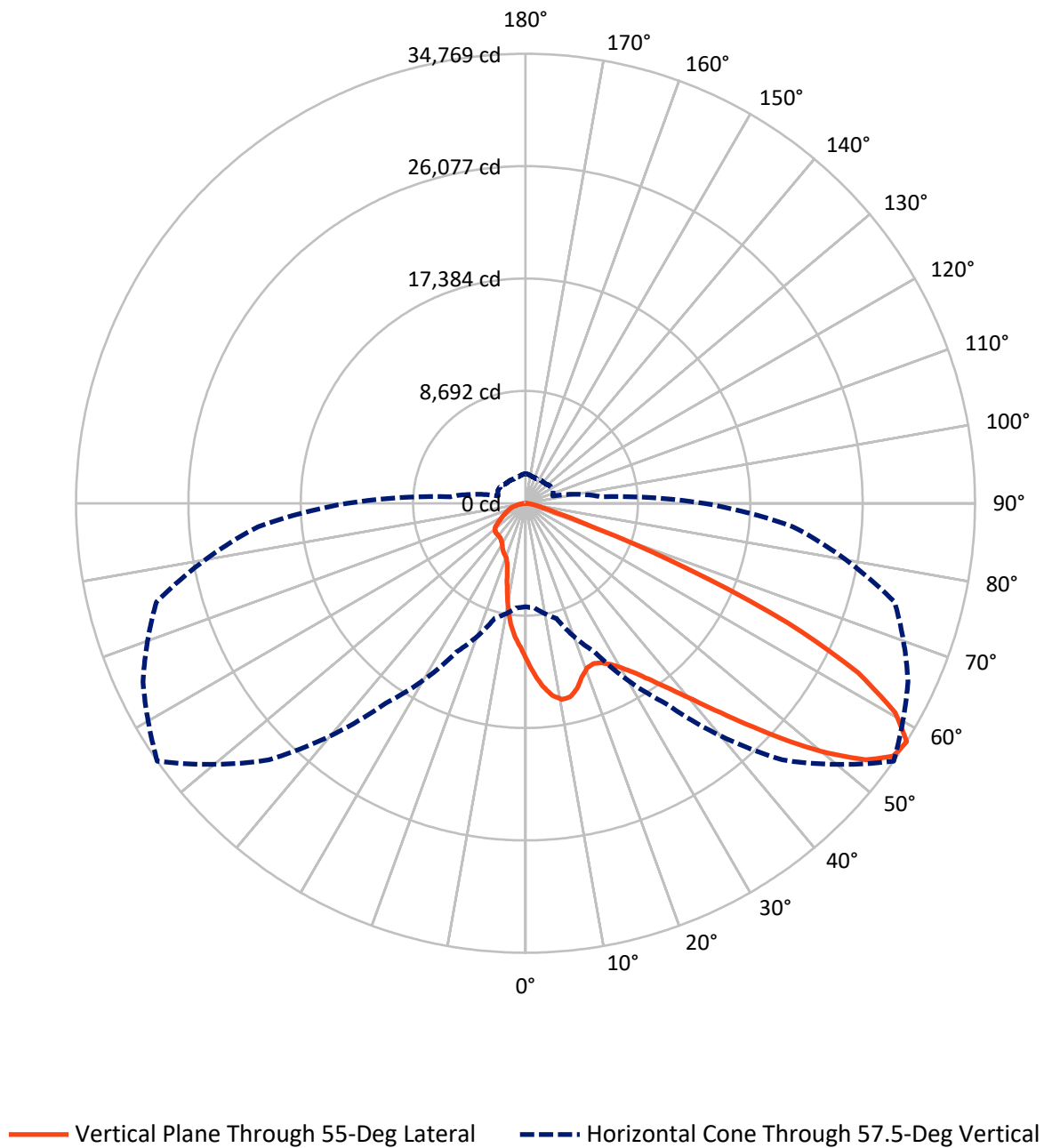


Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8754.7	0.0	8754.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	39628.3	0.0	39628.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	48383.0	0.0	48383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1125.0	2.3
10°-20°	2839.5	5.9
20°-30°	4531.0	9.4
30°-40°	7173.6	14.8
40°-50°	10980.0	22.7
50°-60°	11760.6	24.3
60°-70°	7398.6	15.3
70°-80°	2187.9	4.5
80°-90°	386.8	0.8
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°	48383.0	100.0
0°-180°	48383.0	100.0

Coefficient of Utilization



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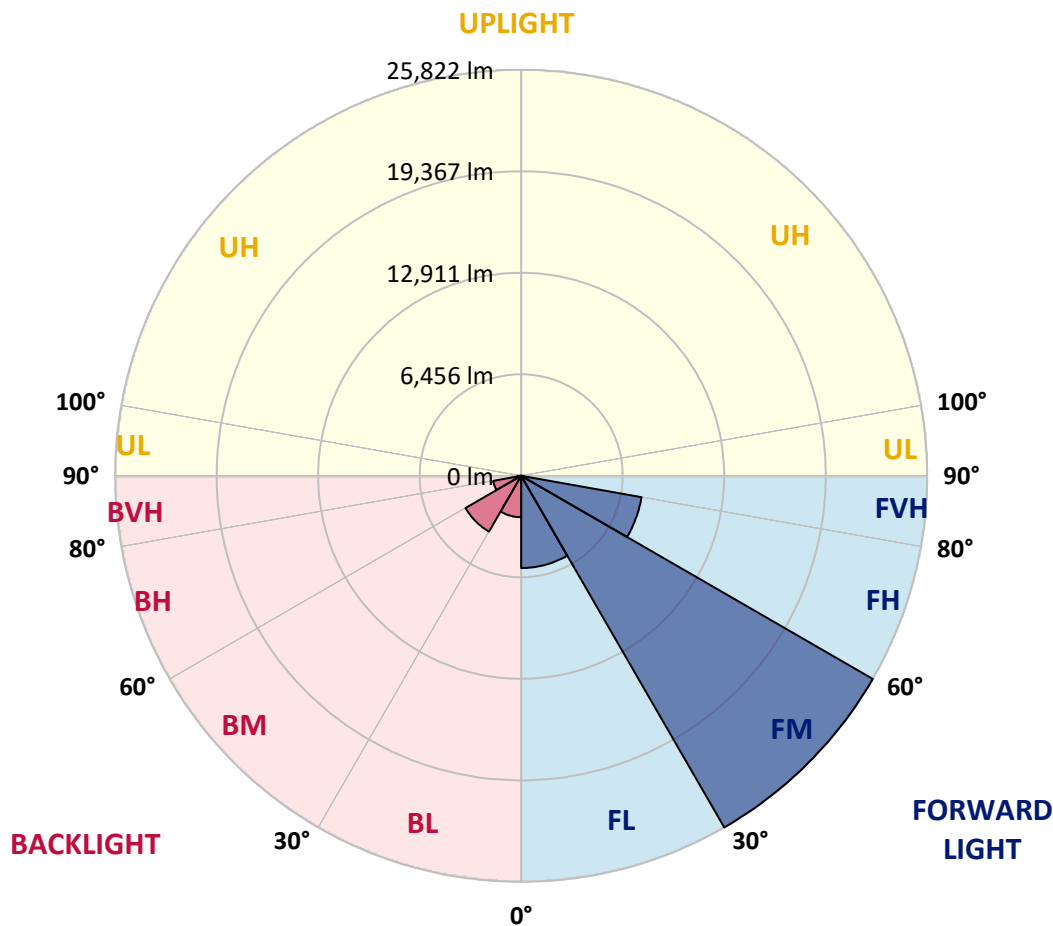
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5864.0	12.1			
FM	(30°-60°)	25822.3	53.4			
FH	(60°-80°)	7778.5	16.1			G4/12000
FVH	(80°-90°)	163.4	0.3			G2/225
BL	(0°-30°)	2631.4	5.4	B4/5000		
BM	(30°-60°)	4091.9	8.5	B3/5000		
BH	(60°-80°)	1808.0	3.7	B3/2500		G3/2500
BVH	(80°-90°)	223.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12123.2	12123.2	12123.2	12123.2	12123.2	12123.2	12123.2	12123.2	12123.2	12123.2	12123.2
2.5°	13909.1	13899.0	13954.1	13766.5	13638.9	13466.3	13238.7	12948.6	12636.0	12305.8	12163.2
5°	15162.1	15074.6	15132.1	14992.1	14852.0	14591.9	14254.2	13781.5	13203.7	12545.9	12195.7
7.5°	14964.5	14904.5	15052.1	15177.1	15282.2	15249.7	15002.1	14506.8	13761.5	12806.0	12298.3
10°	13371.3	13303.8	13511.4	13944.1	14579.4	15132.1	15432.3	15124.6	14331.7	13091.2	12398.3
12.5°	11965.6	11933.1	12070.7	12420.8	13126.2	14186.7	15377.2	15664.9	14924.5	13428.8	12533.4
15°	11365.4	11325.3	11412.9	11590.5	12040.7	13028.6	14877.0	16035.1	15507.3	13819.0	12748.5
17.5°	11232.8	11187.8	11225.3	11317.8	11608.0	12360.8	14121.7	16217.6	16115.1	14254.2	12928.6
20°	11477.9	11440.4	11445.4	11440.4	11643.0	12240.8	13596.4	16147.6	16645.3	14654.4	13103.7
22.5°	12070.7	12008.2	12010.7	11878.1	11988.1	12450.9	13458.8	15960.0	17118.1	15004.6	13236.2
25°	13036.1	12923.6	12946.1	12608.4	12578.4	12921.1	13673.9	15814.9	17588.3	15284.7	13261.2
27.5°	14356.8	14229.2	14161.7	13658.9	13418.8	13588.9	14111.6	15865.0	18033.5	15527.3	13198.7
30°	16007.5	15852.5	15714.9	15002.1	14566.9	14504.3	14792.0	16195.1	18558.7	15782.4	13091.2
32.5°	18031.0	17850.9	17600.8	16655.3	16042.6	15714.9	15672.4	16782.9	19174.0	16107.6	13036.1
35°	20439.6	20204.5	19849.3	18626.3	17850.9	17180.6	16832.9	17630.8	20016.9	16597.8	13098.7
37.5°	22920.8	22655.7	22330.5	20874.8	19921.9	18933.9	18248.6	18781.3	21140.0	17263.1	13263.7
40°	25209.4	24911.7	24609.1	23313.5	22290.5	21099.9	19981.9	20237.0	22513.1	18058.5	13543.9
42.5°	26560.0	26339.9	26224.9	25524.5	24734.1	23526.1	22137.9	21962.8	24056.3	18973.9	13864.0
45°	26500.0	26409.9	26765.1	27055.2	26867.7	26197.3	24664.1	23871.2	25604.6	19766.8	14159.2
47.5°	25084.3	25144.3	25937.2	27568.0	28285.8	28636.0	27540.5	25744.6	26950.2	20359.6	14291.7
50°	21232.5	21282.5	23118.4	26635.0	28651.0	30624.4	30394.3	27573.0	27993.2	20722.3	14261.7
52.5°	18183.6	18216.1	19003.9	23868.7	27445.4	31624.9	32965.5	29296.3	28756.0	20822.3	14094.1
55°	13696.5	13809.0	14691.9	18726.3	24308.9	30832.0	34531.3	31072.1	29238.8	20832.3	13919.1
57.5°	8001.3	8123.8	9214.3	12711.0	18893.9	28068.2	34768.9	32647.9	29566.4	20752.3	13814.0
60°	3919.3	3971.9	4447.1	6680.6	11650.5	22743.2	32858.0	33410.7	29749.0	20709.8	13809.0
62.5°	2641.2	2633.7	2653.7	3296.6	5740.2	14611.9	28876.1	32075.1	29651.5	20547.2	13759.0
65°	2271.1	2243.6	2168.5	2313.6	2973.9	6683.1	22310.5	28088.2	28908.6	20139.5	13416.3
67.5°	1963.4	1965.9	1968.4	1923.4	2123.5	3084.0	13633.9	22125.4	26242.4	18208.6	12095.7
70°	1625.8	1648.3	1658.3	1658.3	1730.8	2023.5	5820.2	15164.6	20699.7	14276.7	9742.1
72.5°	1480.7	1433.2	1438.2	1413.2	1413.2	1540.7	2343.6	8596.5	13041.1	8031.3	5945.3
75°	1208.1	1238.1	1243.1	1225.6	1168.1	1175.6	1390.7	3606.7	5580.1	3331.6	2938.9
77.5°	1043.0	1043.0	1053.0	1040.5	995.5	880.4	927.9	1398.2	1898.4	1365.6	1468.2
80°	837.9	835.4	877.9	902.9	832.9	650.3	592.8	772.9	842.9	600.3	762.9
82.5°	407.7	432.7	602.8	687.8	632.8	470.2	362.7	480.2	450.2	265.1	342.7
85°	237.6	225.1	270.1	382.7	362.7	260.1	175.1	250.1	235.1	135.1	137.6
87.5°	75.0	70.0	55.0	130.1	105.0	72.5	47.5	72.5	65.0	30.0	30.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12123.2	12123.2	12123.2	12123.2	12123.2	12123.2	12123.2	12123.2	12123.2	12123.2
2.5°	11985.6	11690.5	11397.9	11130.2	10967.7	10862.6	10757.6	10640.0	10595.0	10527.5
5°	11865.6	11295.3	10787.6	10349.9	9952.2	9639.5	9324.4	9069.3	8954.2	9031.8
7.5°	11795.6	10970.2	10187.3	9384.4	8611.6	7993.8	7456.0	7078.3	6908.3	6950.8
10°	11733.0	10602.5	9409.4	8141.3	7030.8	6265.5	5715.2	5427.6	5320.0	5342.5
12.5°	11675.5	10189.8	8471.5	6803.2	5622.6	5117.4	4959.8	4962.3	4982.3	4997.4
15°	11665.5	9692.1	7423.5	5632.7	4862.3	4829.8	4999.9	5107.4	5164.9	5182.4
17.5°	11650.5	9096.8	6355.5	4834.8	4677.2	4897.3	5054.9	5124.9	5169.9	5172.4
20°	11590.5	8341.4	5370.0	4454.6	4637.2	4827.3	4924.8	4979.8	5017.4	5029.9
22.5°	11405.4	7501.0	4602.2	4284.5	4477.1	4629.7	4744.7	4807.3	4829.8	4844.8
25°	11072.7	6560.6	4071.9	4121.9	4254.5	4447.1	4539.6	4552.1	4544.6	4567.2
27.5°	10637.5	5552.6	3741.8	3901.8	4071.9	4237.0	4287.0	4279.5	4264.5	4289.5
30°	10112.3	4647.2	3531.7	3654.2	3886.8	4036.9	4081.9	4064.4	4034.4	4061.9
32.5°	9557.0	3906.8	3359.1	3481.6	3734.3	3881.8	3926.8	3909.3	3886.8	3909.3
35°	9039.3	3389.1	3199.0	3366.6	3614.2	3759.3	3816.8	3819.3	3819.3	3846.8
37.5°	8564.0	3086.5	3066.4	3294.1	3531.7	3661.7	3744.3	3749.3	3641.7	3649.2
40°	8123.8	2958.9	3006.4	3246.5	3451.6	3576.7	3581.7	3301.6	3104.0	3099.0
42.5°	7763.7	2933.9	3023.9	3241.5	3394.1	3399.1	3046.4	2828.8	2773.8	2776.3
45°	7426.0	2926.4	3063.9	3241.5	3309.1	2936.4	2698.8	2641.2	2646.2	2666.3
47.5°	7048.3	2896.4	3071.4	3196.5	3063.9	2611.2	2541.2	2516.2	2506.2	2511.2
50°	6635.6	2788.8	2976.4	3106.5	2643.7	2471.2	2383.6	2376.1	2388.6	2396.1
52.5°	6200.4	2613.7	2813.8	2943.9	2451.2	2348.6	2251.1	2268.6	2323.6	2341.1
55°	5915.3	2408.6	2598.7	2618.7	2316.1	2233.6	2151.0	2191.0	2293.6	2326.1
57.5°	5840.3	2191.0	2353.6	2331.1	2143.5	2133.5	2083.5	2118.5	2248.6	2296.1
60°	5817.7	1995.9	2113.5	2096.0	1975.9	2023.5	2010.9	2028.5	2073.5	2088.5
62.5°	5642.7	1840.9	1898.4	1873.4	1825.9	1908.4	1938.4	1900.9	1935.9	1953.4
65°	5197.4	1715.8	1688.3	1670.8	1690.8	1765.8	1825.9	1750.8	1783.3	1833.4
67.5°	4462.1	1545.7	1470.7	1490.7	1553.2	1593.3	1670.8	1585.7	1613.3	1698.3
70°	3609.2	1330.6	1263.1	1320.6	1380.7	1463.2	1475.7	1418.2	1483.2	1578.2
72.5°	2553.7	1113.0	1065.5	1183.1	1203.1	1310.6	1283.1	1255.6	1345.6	1378.1
75°	1770.8	897.9	870.4	960.5	1033.0	1125.5	1105.5	1138.0	1328.1	1343.1
77.5°	1120.5	697.8	680.3	737.8	837.9	940.4	973.0	1343.1	2268.6	2358.6
80°	650.3	520.2	500.2	545.3	632.8	727.8	937.9	1648.3	1495.7	1478.2
82.5°	362.7	357.7	332.7	345.2	422.7	525.2	1325.6	1160.5	942.9	973.0
85°	170.1	210.1	180.1	172.6	237.6	615.3	885.4	662.8	440.2	430.2
87.5°	45.0	40.0	40.0	45.0	100.0	530.2	352.7	282.6	167.6	162.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)