

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: P953065

Luminaire Tested: **GALN-SB6D-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953065
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-SB6D-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58211 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 440.1
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

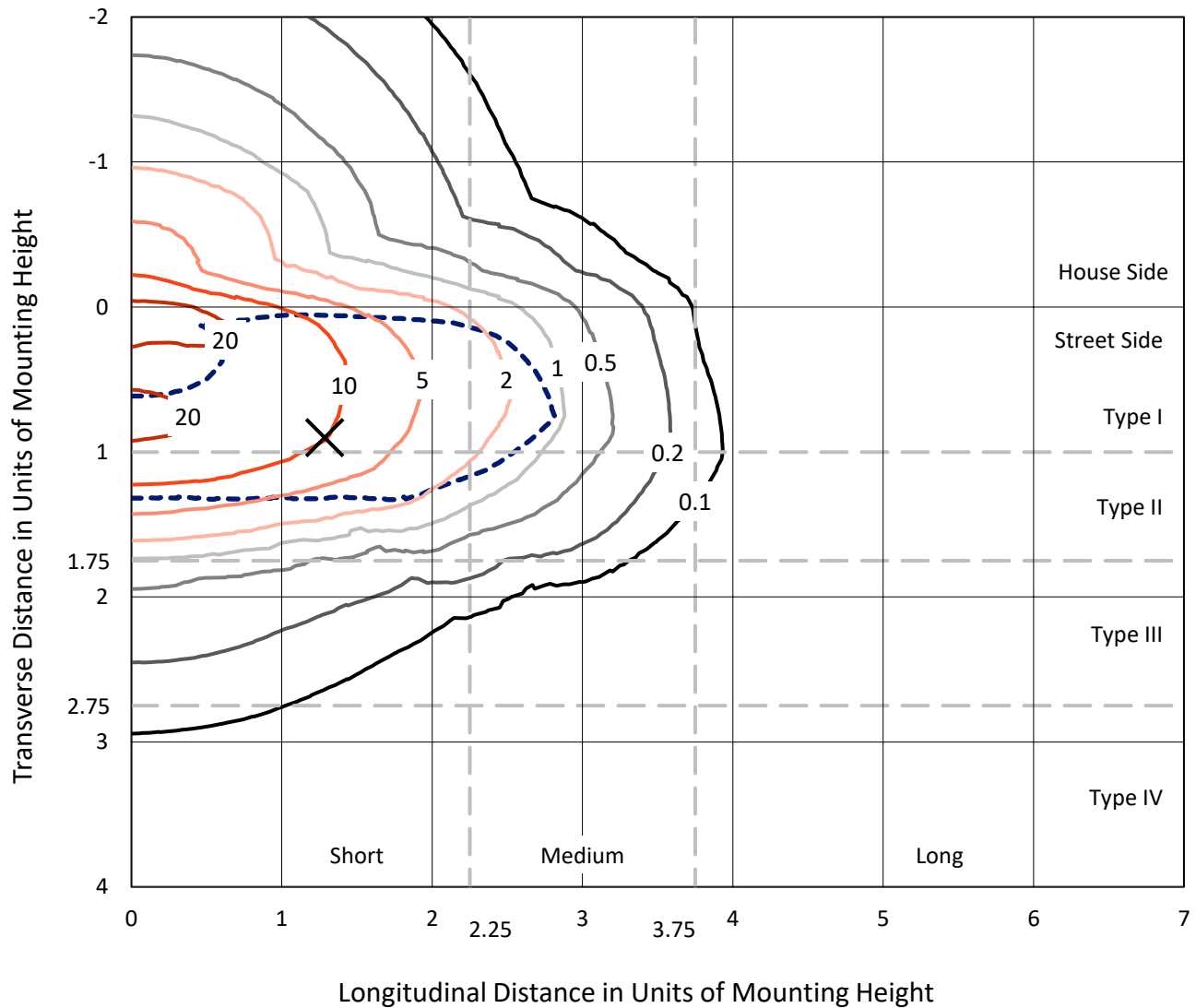


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

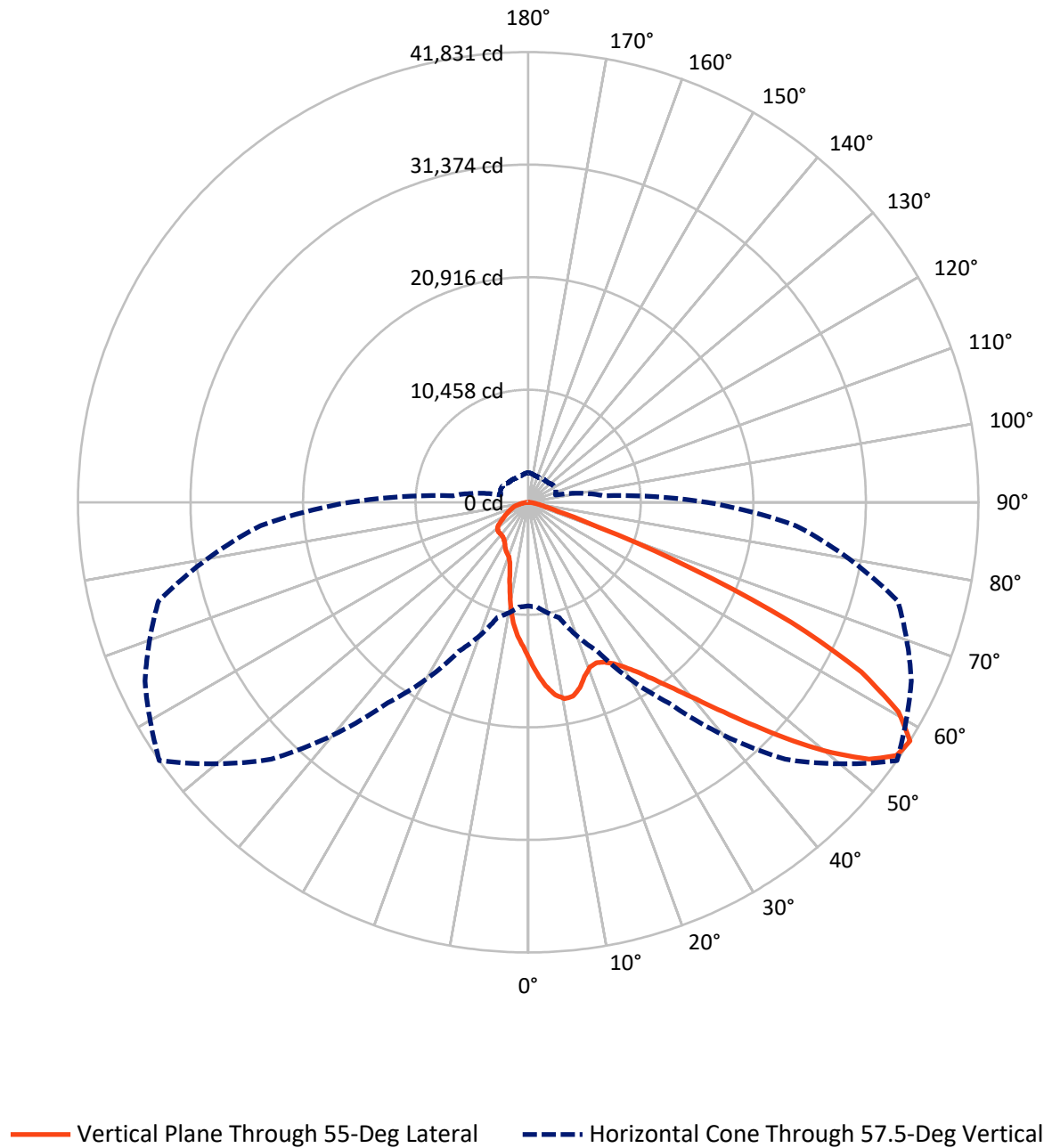


Based on 25 foot mounting height. Maximum calculated value = 28.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10533.0	0.0	10533.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	47678.0	0.0	47678.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	58211.0	0.0	58211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1353.5	2.3
10°-20°	3416.2	5.9
20°-30°	5451.3	9.4
30°-40°	8630.8	14.8
40°-50°	13210.3	22.7
50°-60°	14149.5	24.3
60°-70°	8901.5	15.3
70°-80°	2632.3	4.5
80°-90°	465.4	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°	58211.0	100.0
0°-180°	58211.0	100.0

Coefficient of Utilization



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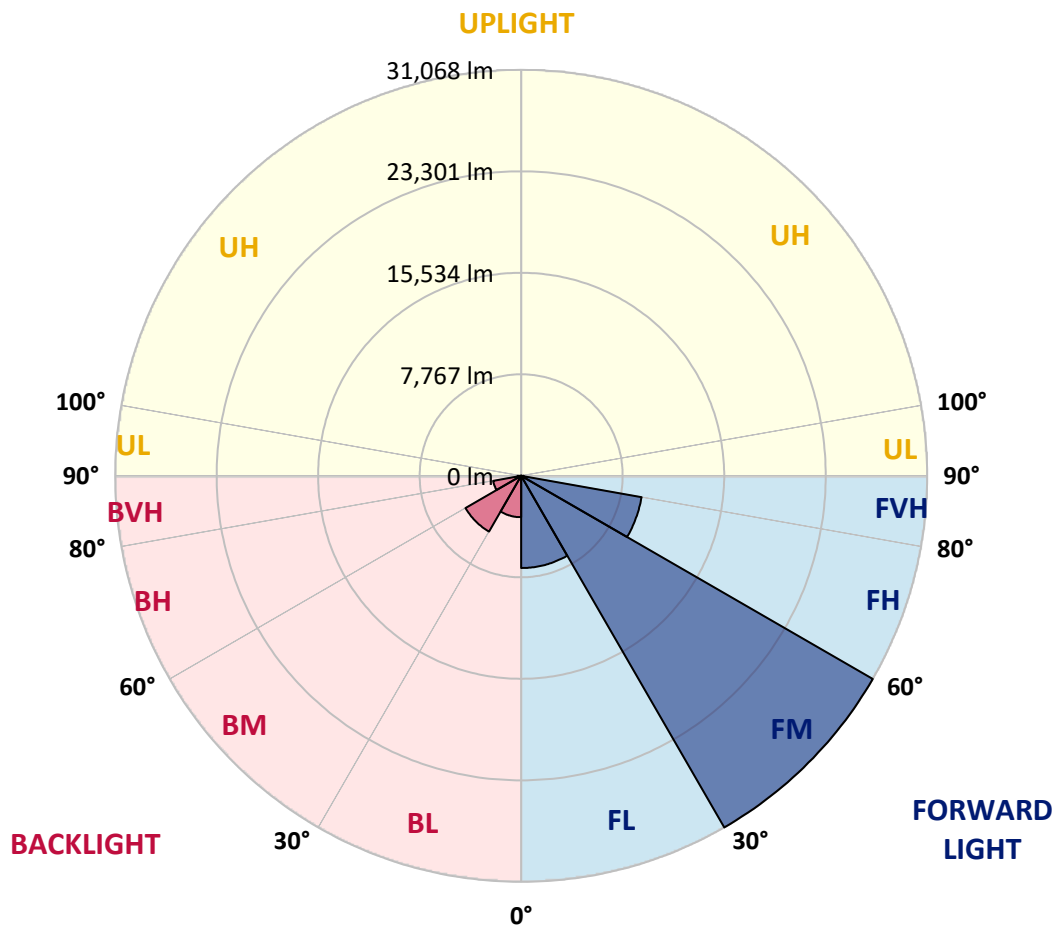
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7055.2	12.1			
FM	(30°-60°)	31067.6	53.4			
FH	(60°-80°)	9358.6	16.1			G4/12000
FVH	(80°-90°)	196.6	0.3			G2/225
BL	(0°-30°)	3165.9	5.4	B4/5000		
BM	(30°-60°)	4923.0	8.5	B3/5000		
BH	(60°-80°)	2175.3	3.7	B3/2500		G3/2500
BVH	(80°-90°)	268.8	0.5			G3/500
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°	14585.8	14585.8	14585.8	14585.8	14585.8	14585.8	14585.8	14585.8	14585.8	14585.8	14585.8
2.5°	16734.4	16722.3	16788.6	16562.9	16409.4	16201.7	15927.9	15578.8	15202.7	14805.5	14633.9
5°	18242.0	18136.7	18205.9	18037.4	17868.9	17555.9	17149.7	16580.9	15885.8	15094.3	14673.1
7.5°	18004.3	17932.1	18109.6	18260.1	18386.5	18347.3	18049.4	17453.6	16556.8	15407.3	14796.4
10°	16087.4	16006.1	16255.9	16776.5	17540.9	18205.9	18567.0	18196.9	17242.9	15750.4	14916.8
12.5°	14396.2	14357.1	14522.6	14943.9	15792.5	17068.4	18500.8	18846.9	17956.1	16156.6	15079.3
15°	13674.0	13625.8	13731.2	13944.8	14486.5	15675.1	17899.0	19292.2	18657.3	16626.1	15338.1
17.5°	13514.5	13460.3	13505.5	13616.8	13965.9	14871.7	16990.2	19511.9	19388.5	17149.7	15554.8
20°	13809.4	13764.3	13770.3	13764.3	14008.0	14727.2	16358.2	19427.7	20026.5	17631.1	15765.4
22.5°	14522.6	14447.4	14450.4	14290.9	14423.3	14980.0	16192.7	19202.0	20595.2	18052.4	15924.9
25°	15684.2	15548.7	15575.8	15169.6	15133.5	15545.7	16451.5	19027.4	21161.0	18389.5	15955.0
27.5°	17273.0	17119.6	17038.3	16433.5	16144.6	16349.2	16978.1	19087.6	21696.6	18681.4	15879.8
30°	19259.1	19072.6	18907.1	18049.4	17525.8	17450.6	17796.6	19484.8	22328.6	18988.3	15750.4
32.5°	21693.6	21476.9	21176.0	20038.5	19301.3	18907.1	18855.9	20192.0	23068.8	19379.5	15684.2
35°	24591.5	24308.6	23881.3	22409.8	21476.9	20670.5	20252.2	21212.1	24082.9	19969.3	15759.4
37.5°	27576.7	27257.7	26866.5	25115.1	23968.6	22779.9	21955.4	22596.4	25434.1	20769.8	15958.0
40°	30330.1	29972.0	29607.9	28049.1	26818.3	25386.0	24040.8	24347.8	27086.2	21726.7	16295.0
42.5°	31955.1	31690.3	31551.9	30709.3	29758.4	28304.9	26634.8	26424.1	28942.9	22828.1	16680.2
45°	31882.9	31774.6	32201.9	32551.0	32325.3	31518.8	29674.1	28720.2	30805.6	23782.0	17035.3
47.5°	30179.7	30251.9	31205.8	33167.8	34031.5	34452.8	33134.7	30974.1	32424.6	24495.2	17194.8
50°	25545.4	25605.6	27814.4	32045.4	34470.8	36845.1	36568.3	33173.9	33679.4	24931.6	17158.7
52.5°	21877.2	21916.3	22864.2	28717.2	33020.4	38048.8	39661.8	35247.2	34597.2	25051.9	16957.1
55°	16478.6	16614.0	17676.3	22530.2	29246.8	37094.9	41545.6	37383.8	35178.0	25064.0	16746.4
57.5°	9626.6	9774.0	11086.0	15293.0	22731.8	33769.7	41831.4	39279.6	35572.2	24967.7	16620.0
60°	4715.5	4778.7	5350.4	8037.7	14017.0	27363.0	39532.4	40197.4	35791.9	24916.5	16614.0
62.5°	3177.8	3168.7	3192.8	3966.2	6906.2	17580.0	34741.7	38590.5	35674.5	24720.9	16553.8
65°	2732.4	2699.3	2609.0	2783.5	3578.0	8040.7	26842.4	33793.8	34780.8	24230.4	16141.6
67.5°	2362.3	2365.3	2368.3	2314.1	2554.8	3710.4	16403.4	26619.7	31572.9	21907.3	14552.7
70°	1956.0	1983.1	1995.1	1995.1	2082.4	2434.5	7002.5	18245.0	24904.5	17176.7	11721.0
72.5°	1781.5	1724.3	1730.3	1700.2	1700.2	1853.7	2819.7	10342.8	15690.2	9662.7	7153.0
75°	1453.5	1489.6	1495.6	1474.5	1405.3	1414.3	1673.1	4339.3	6713.6	4008.3	3535.9
77.5°	1254.9	1254.9	1266.9	1251.8	1197.7	1059.3	1116.4	1682.2	2284.0	1643.0	1766.4
80°	1008.1	1005.1	1056.2	1086.3	1002.1	782.4	713.2	929.9	1014.1	722.2	917.8
82.5°	490.5	520.6	725.2	827.5	761.3	565.7	436.3	577.8	541.7	319.0	412.3
85°	285.9	270.8	325.0	460.4	436.3	313.0	210.6	300.9	282.9	162.5	165.5
87.5°	90.3	84.3	66.2	156.5	126.4	87.3	57.2	87.3	78.2	36.1	36.1
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°	14585.8	14585.8	14585.8	14585.8	14585.8	14585.8	14585.8	14585.8	14585.8	14585.8
2.5°	14420.3	14065.2	13713.1	13391.1	13195.5	13069.1	12942.7	12801.3	12747.1	12665.9
5°	14275.8	13589.7	12978.9	12452.2	11973.8	11597.6	11218.4	10911.5	10773.1	10866.4
7.5°	14191.6	13198.5	12256.6	11290.7	10360.8	9617.5	8970.5	8516.1	8311.5	8362.7
10°	14116.3	12756.2	11320.8	9795.1	8459.0	7538.1	6876.1	6530.1	6400.7	6427.7
12.5°	14047.1	12259.6	10192.3	8185.1	6764.8	6156.9	5967.3	5970.3	5994.4	6012.5
15°	14035.1	11660.8	8931.4	6776.8	5850.0	5810.8	6015.5	6144.9	6214.1	6235.1
17.5°	14017.0	10944.6	7646.5	5816.9	5627.3	5892.1	6081.7	6165.9	6220.1	6223.1
20°	13944.8	10035.8	6460.8	5359.5	5579.1	5807.8	5925.2	5991.4	6036.5	6051.6
22.5°	13722.1	9024.7	5537.0	5154.8	5386.5	5570.1	5708.5	5783.8	5810.8	5828.9
25°	13321.9	7893.2	4899.0	4959.2	5118.7	5350.4	5461.8	5476.8	5467.8	5494.9
27.5°	12798.3	6680.5	4501.8	4694.4	4899.0	5097.7	5157.8	5148.8	5130.8	5160.8
30°	12166.4	5591.2	4249.0	4396.5	4676.4	4856.9	4911.1	4890.0	4853.9	4887.0
32.5°	11498.3	4700.4	4041.4	4188.9	4492.8	4670.3	4724.5	4703.4	4676.4	4703.4
35°	10875.4	4077.5	3848.8	4050.4	4348.4	4522.9	4592.1	4595.1	4595.1	4628.2
37.5°	10303.6	3713.4	3689.3	3963.2	4249.0	4405.5	4504.8	4510.9	4381.5	4390.5
40°	9774.0	3559.9	3617.1	3906.0	4152.8	4303.2	4309.2	3972.2	3734.5	3728.4
42.5°	9340.7	3529.8	3638.2	3900.0	4083.5	4089.6	3665.3	3403.5	3337.2	3340.3
45°	8934.4	3520.8	3686.3	3900.0	3981.2	3532.8	3247.0	3177.8	3183.8	3207.9
47.5°	8480.0	3484.7	3695.3	3845.8	3686.3	3141.6	3057.4	3027.3	3015.3	3021.3
50°	7983.5	3355.3	3581.0	3737.5	3180.8	2973.1	2867.8	2858.8	2873.8	2882.9
52.5°	7459.9	3144.7	3385.4	3541.9	2949.1	2825.7	2708.3	2729.4	2795.6	2816.6
55°	7116.9	2897.9	3126.6	3150.7	2786.6	2687.3	2587.9	2636.1	2759.5	2798.6
57.5°	7026.6	2636.1	2831.7	2804.6	2578.9	2566.9	2506.7	2548.8	2705.3	2762.5
60°	6999.5	2401.4	2542.8	2521.7	2377.3	2434.5	2419.4	2440.5	2494.7	2512.7
62.5°	6788.8	2214.8	2284.0	2253.9	2196.7	2296.1	2332.2	2287.0	2329.2	2350.2
65°	6253.2	2064.3	2031.2	2010.2	2034.2	2124.5	2196.7	2106.5	2145.6	2205.8
67.5°	5368.5	1859.7	1769.4	1793.5	1868.7	1916.9	2010.2	1907.9	1941.0	2043.3
70°	4342.3	1600.9	1519.7	1588.9	1661.1	1760.4	1775.5	1706.2	1784.5	1898.8
72.5°	3072.4	1339.1	1281.9	1423.4	1447.4	1576.8	1543.7	1510.6	1619.0	1658.1
75°	2130.5	1080.3	1047.2	1155.5	1242.8	1354.2	1330.1	1369.2	1597.9	1616.0
77.5°	1348.1	839.6	818.5	887.7	1008.1	1131.5	1170.6	1616.0	2729.4	2837.7
80°	782.4	625.9	601.8	656.0	761.3	875.7	1128.5	1983.1	1799.5	1778.5
82.5°	436.3	430.3	400.2	415.3	508.6	631.9	1594.9	1396.3	1134.5	1170.6
85°	204.6	252.8	216.7	207.6	285.9	740.3	1065.3	797.4	529.6	517.6
87.5°	54.2	48.1	48.1	54.2	120.4	638.0	424.3	340.0	201.6	195.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)