

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: P953078

Luminaire Tested: **GALN-SB6D-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953078
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-SB6D-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58003 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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



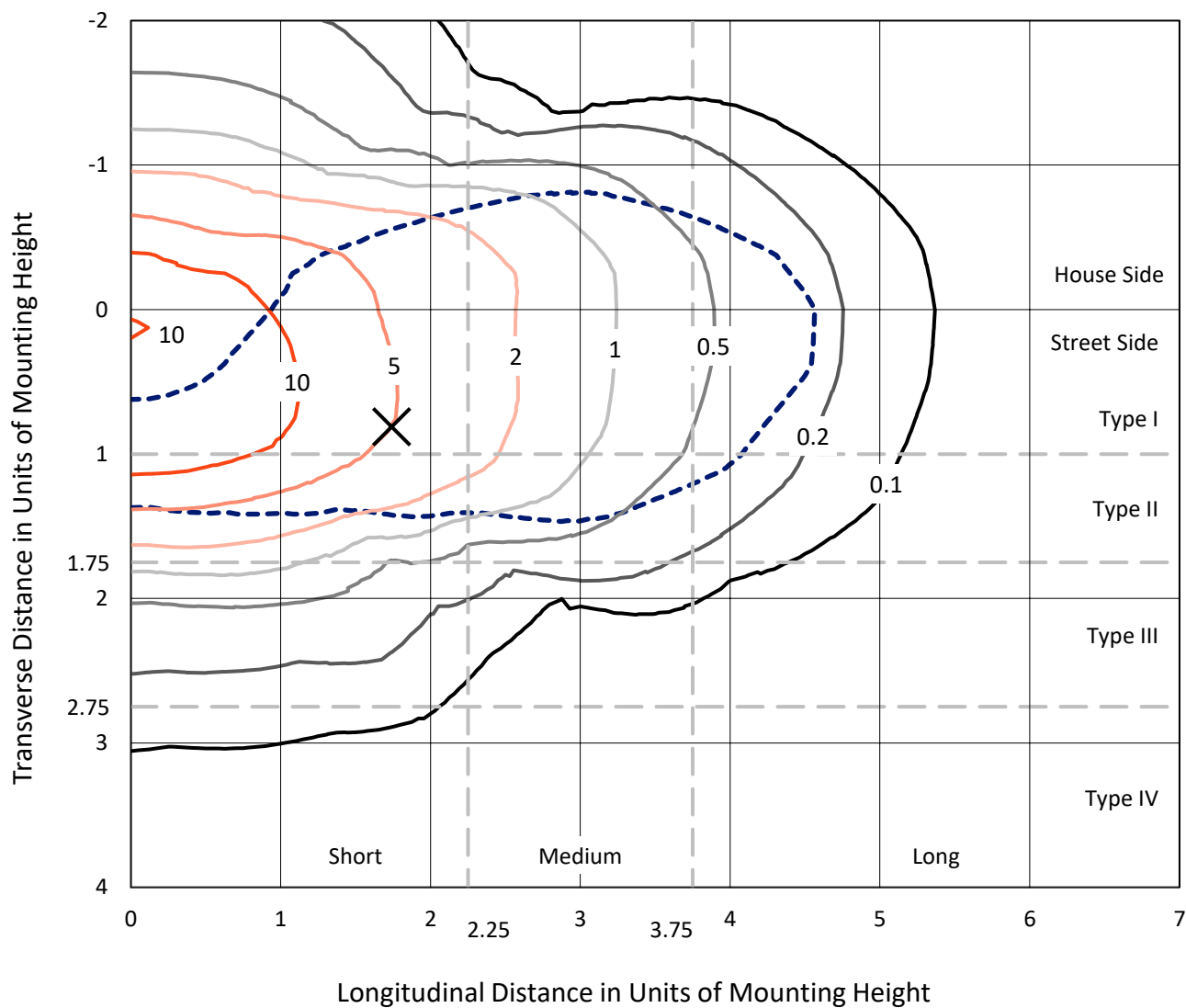
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Iso-Footcandle Lines of Horizontal Illumination

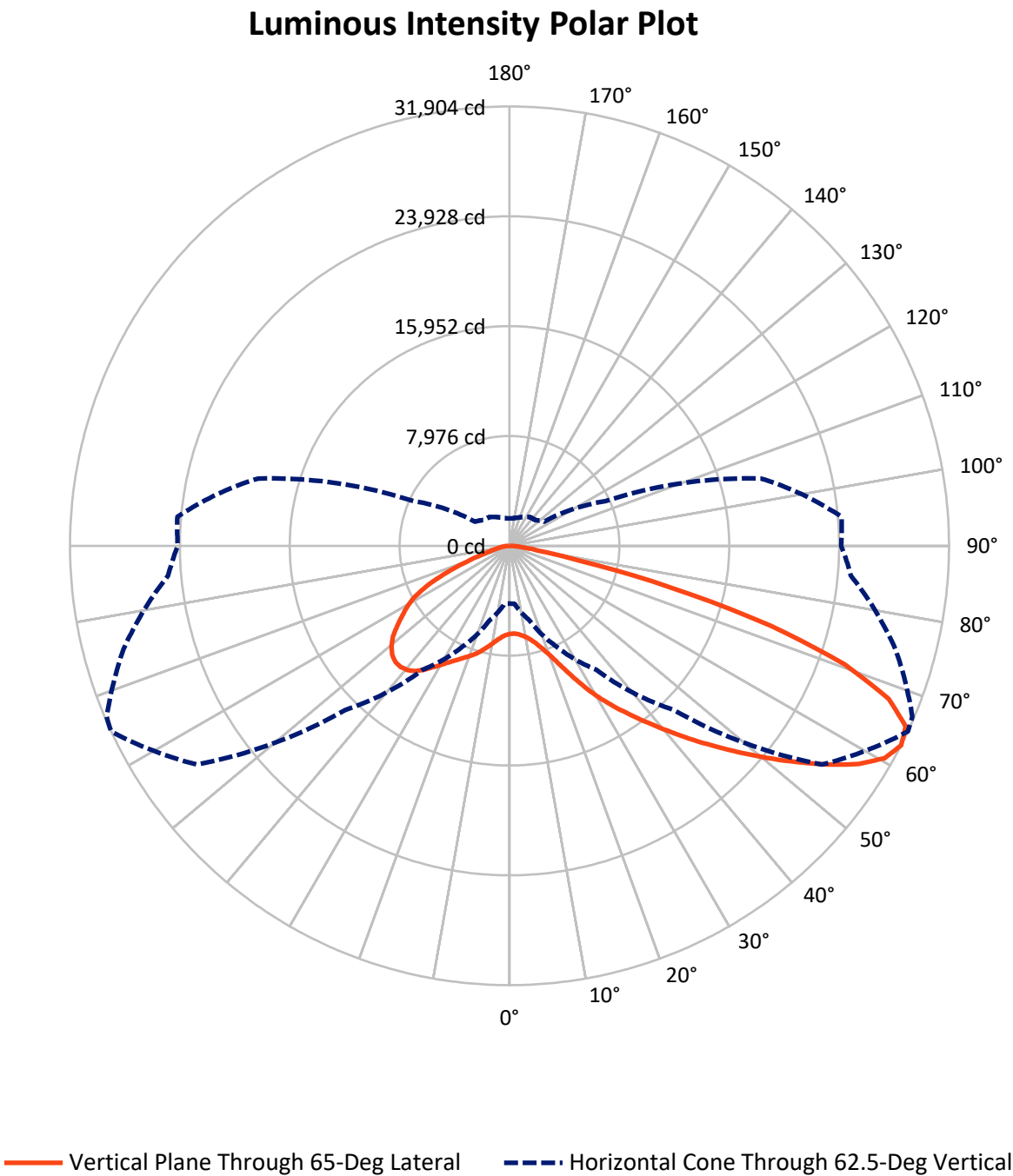
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18303.2	0.0	18303.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	39699.8	0.0	39699.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	58003.0	0.0	58003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.2	1.1
10°-20°	2160.9	3.7
20°-30°	4381.6	7.6
30°-40°	7582.2	13.1
40°-50°	11474.2	19.8
50°-60°	13452.8	23.2
60°-70°	11278.5	19.4
70°-80°	6226.7	10.7
80°-90°	808.8	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°	58003.0	100.0
0°-180°	58003.0	100.0

Coefficient of Utilization



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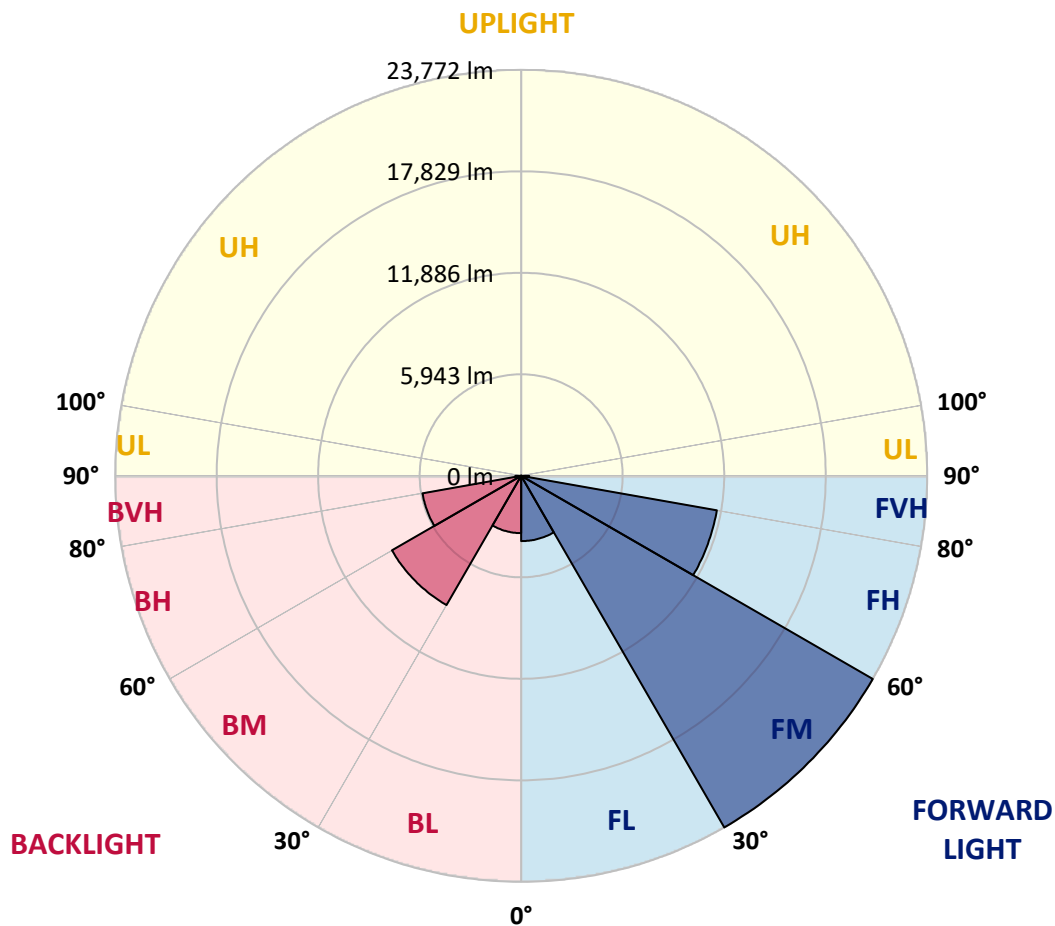
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3823.2	6.6			
FM	(30°-60°)	23771.5	41.0			
FH	(60°-80°)	11633.7	20.1			G4/12000
FVH	(80°-90°)	471.4	0.8			G3/500
BL	(0°-30°)	3356.6	5.8	B4/5000		
BM	(30°-60°)	8737.7	15.1	B5		
BH	(60°-80°)	5871.5	10.1	B5		G5
BVH	(80°-90°)	337.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7
2.5°	6349.5	6331.5	6346.5	6346.5	6352.6	6349.5	6370.6	6376.6	6385.7	6403.7	6403.7
5°	6286.4	6283.3	6310.4	6334.5	6358.6	6379.6	6406.7	6445.8	6451.9	6472.9	6500.0
7.5°	6265.3	6247.2	6289.4	6319.5	6376.6	6427.8	6500.0	6566.2	6593.3	6602.3	6653.5
10°	6427.8	6397.7	6436.8	6454.9	6503.0	6554.2	6638.4	6743.8	6773.9	6810.0	6867.1
12.5°	6704.6	6671.5	6728.7	6755.8	6800.9	6846.1	6903.3	7005.6	7020.6	7086.8	7141.0
15°	7083.8	7044.7	7080.8	7113.9	7189.1	7231.3	7288.4	7387.7	7387.7	7438.9	7478.0
17.5°	7598.4	7547.2	7574.3	7586.4	7634.5	7697.7	7794.0	7881.3	7926.4	7908.3	7854.2
20°	8365.8	8302.6	8302.6	8242.4	8224.3	8275.5	8401.9	8522.2	8570.4	8477.1	8344.7
22.5°	9518.3	9428.0	9376.9	9172.2	9091.0	9097.0	9223.4	9370.9	9410.0	9244.5	8946.5
25°	10983.8	10842.4	10773.2	10472.2	10288.7	10129.2	10228.5	10418.1	10472.2	10267.6	9786.1
27.5°	12449.3	12458.4	12392.2	12031.0	11727.1	11435.2	11384.0	11582.7	11639.8	11408.1	10812.3
30°	14504.7	14291.0	14164.6	13731.3	13297.9	12888.7	12678.0	12759.3	12774.3	12497.5	11805.3
32.5°	16277.1	16222.9	15952.1	15572.9	15016.2	14375.3	14023.2	13893.8	13869.7	13475.5	12654.0
35°	18296.3	18266.2	17980.4	17529.0	16927.1	16036.4	15401.4	15031.3	15001.2	14447.5	13493.5
37.5°	20348.7	20348.7	20068.8	19575.3	18952.4	17838.9	16872.9	16286.1	16189.8	15467.6	14348.2
40°	21985.7	21886.4	21937.5	21729.9	21016.7	19834.1	18507.0	17655.4	17526.0	16659.3	15257.0
42.5°	22915.6	22882.5	23189.4	23421.1	23129.2	22184.3	20306.5	19138.9	18958.4	17971.3	16304.2
45°	23123.2	23087.1	23634.8	24483.4	24892.6	24504.4	22262.5	20700.7	20481.1	19343.6	17426.7
47.5°	22644.7	22572.5	23376.0	24715.1	26027.1	26710.2	24381.1	22395.0	22076.0	20679.7	18579.2
50°	21206.3	21137.1	22352.8	24131.3	26409.3	28208.9	26680.1	24191.5	23704.0	22112.1	19743.8
52.5°	18079.7	18112.8	20017.6	22461.2	25906.8	29141.7	28660.2	26084.3	25497.5	23577.6	20836.2
55°	14083.4	14155.6	16496.8	19187.1	23896.6	29000.3	30011.4	28034.3	27450.5	24955.8	21964.6
57.5°	10084.0	10403.0	12596.8	15260.0	20035.7	26758.4	30306.3	29888.0	29322.3	26460.5	23069.0
60°	6536.1	6593.3	8850.2	11534.5	15257.0	22774.1	29707.5	31293.3	30851.0	27995.2	23992.9
62.5°	4188.9	4228.0	5603.3	8067.8	10980.8	16848.9	27691.3	31904.2	31768.8	29009.3	24880.6
65°	3078.5	3048.4	3764.6	5332.4	7396.8	10391.0	23776.2	31609.3	31877.1	29644.3	25614.9
67.5°	2569.9	2527.8	2879.9	3692.4	5449.8	5901.2	17592.2	29692.4	30673.4	29572.0	26153.5
70°	2341.2	2305.1	2518.8	2741.4	4252.1	3951.2	8868.3	25813.5	27324.1	28750.5	26066.3
72.5°	1983.1	1919.9	2211.8	2434.5	3307.2	3030.3	3665.3	19828.0	21669.7	26117.4	24838.5
75°	1537.7	1495.6	1745.4	2142.6	2485.7	2365.3	2317.1	12040.1	14050.3	20198.2	21729.9
77.5°	1218.8	1161.6	1390.3	1670.1	2235.9	1784.5	1688.2	5185.0	7177.1	12894.7	16259.1
80°	917.8	866.7	1056.3	1321.1	1718.3	1345.1	1092.4	2115.5	2705.3	6533.1	8176.2
82.5°	653.0	607.9	737.3	969.0	1155.6	1206.7	671.1	1185.7	1333.1	2518.8	1826.6
85°	418.3	391.2	493.5	607.9	734.3	776.4	409.3	619.9	680.1	1038.2	761.3
87.5°	228.7	186.6	264.8	282.9	340.0	310.0	195.6	225.7	243.8	376.2	322.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7	6391.7
2.5°	6415.8	6424.8	6454.9	6463.9	6485.0	6512.0	6530.1	6548.2	6548.2	6566.2	6566.2
5°	6503.0	6524.1	6587.3	6620.4	6674.6	6728.7	6761.8	6800.9	6825.0	6837.1	6843.1
7.5°	6671.5	6704.6	6794.9	6852.1	6945.4	7020.6	7071.8	7125.9	7138.0	7171.1	7159.0
10°	6900.2	6939.4	7041.7	7150.0	7261.4	7354.6	7402.8	7441.9	7457.0	7463.0	7447.9
12.5°	7162.1	7219.2	7351.6	7484.0	7601.4	7682.7	7694.7	7685.7	7643.5	7607.4	7607.4
15°	7484.0	7535.2	7682.7	7827.1	7941.5	7956.5	7881.3	7833.1	7782.0	7772.9	7772.9
17.5°	7869.2	7896.3	8031.7	8173.2	8182.2	8131.0	8019.7	7974.6	7926.4	7893.3	7896.3
20°	8317.6	8308.6	8404.9	8465.1	8401.9	8245.4	8076.9	8001.6	7953.5	7914.4	7917.4
22.5°	8853.3	8784.0	8772.0	8757.0	8588.4	8260.4	8031.7	7935.4	7860.2	7806.0	7824.1
25°	9632.7	9367.8	9184.3	9082.0	8702.8	8179.2	7887.3	7673.6	7532.2	7438.9	7475.0
27.5°	10607.7	10162.3	9698.9	9449.1	8702.8	8013.7	7538.2	7192.1	6960.4	6864.1	6912.3
30°	11537.5	11071.1	10388.0	9891.5	8681.7	7742.8	6975.5	6494.0	6223.2	6126.9	6184.0
32.5°	12332.0	11823.4	11119.2	10375.9	8630.6	7303.5	6277.3	5744.7	5482.9	5368.5	5425.7
35°	13069.2	12527.6	11853.5	10908.6	8495.2	6659.5	5510.0	5103.7	4811.8	4628.2	4688.4
37.5°	13824.6	13180.6	12548.6	11390.1	8251.4	5907.2	4920.1	4574.1	4231.0	3984.3	4050.5
40°	14646.1	13875.7	13291.9	11675.9	7851.2	5191.0	4462.7	4146.8	3782.6	3520.8	3572.0
42.5°	15606.0	14709.3	14119.5	11823.4	7303.5	4682.4	4164.8	3854.9	3511.8	3298.2	3340.3
45°	16608.1	15627.1	14874.8	11820.4	6692.6	4444.7	4068.5	3761.6	3382.4	3159.7	3195.8
47.5°	17658.4	16587.1	15527.8	11627.8	6163.0	4477.8	4014.4	3560.0	3141.7	2925.0	2955.1
50°	18711.6	17637.3	16159.8	11266.7	5937.3	4405.6	3812.7	3277.1	2783.6	2588.0	2600.0
52.5°	19755.8	18753.7	16704.4	10752.1	5708.6	4137.7	3553.9	2910.0	2636.1	2500.7	2500.7
55°	20806.1	19858.1	17297.3	10002.8	5136.8	3824.8	3120.6	2771.5	2518.8	2395.4	2383.3
57.5°	21859.3	21134.1	17860.0	9253.5	4417.6	3439.6	2882.9	2603.0	2401.4	2296.1	2278.0
60°	22954.7	22593.6	18440.8	8564.4	3707.4	2946.1	2708.3	2467.6	2263.0	2145.6	2136.6
62.5°	24083.1	24200.5	18895.2	7676.6	3054.4	2645.1	2551.9	2305.1	2106.5	1995.1	1992.1
65°	25220.7	25750.3	19193.1	6445.8	2476.6	2359.3	2383.3	2127.6	1925.9	1829.6	1826.6
67.5°	26078.3	26866.7	19108.8	4878.0	2031.3	2088.4	2172.7	1941.0	1751.4	1676.2	1679.2
70°	26174.6	26734.3	18278.3	3340.3	1700.2	1823.6	1938.0	1757.4	1561.8	1507.6	1510.7
72.5°	24892.6	24928.8	15964.2	2181.7	1438.4	1600.9	1691.2	1570.8	1381.3	1327.1	1324.1
75°	21531.3	20616.5	11721.1	1438.4	1203.7	1375.2	1459.5	1375.2	1191.7	1203.7	1161.6
77.5°	16313.2	14601.0	7116.9	1023.2	1005.1	1155.6	1269.9	1209.7	1053.2	1182.6	1041.2
80°	8404.9	7899.3	3174.8	764.4	794.4	923.8	1044.2	966.0	833.6	794.4	725.2
82.5°	1925.9	2238.9	1251.9	547.7	574.8	665.0	797.5	725.2	598.8	505.6	499.5
85°	674.1	737.3	553.7	343.1	337.0	415.3	541.7	484.5	406.3	325.0	343.1
87.5°	213.7	279.9	207.6	138.4	144.4	186.6	249.8	228.7	189.6	123.4	129.4
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)