

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: P955934

Luminaire Tested: **GALN-SB8D-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955934
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-SB8D-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 77345 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 584.9
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



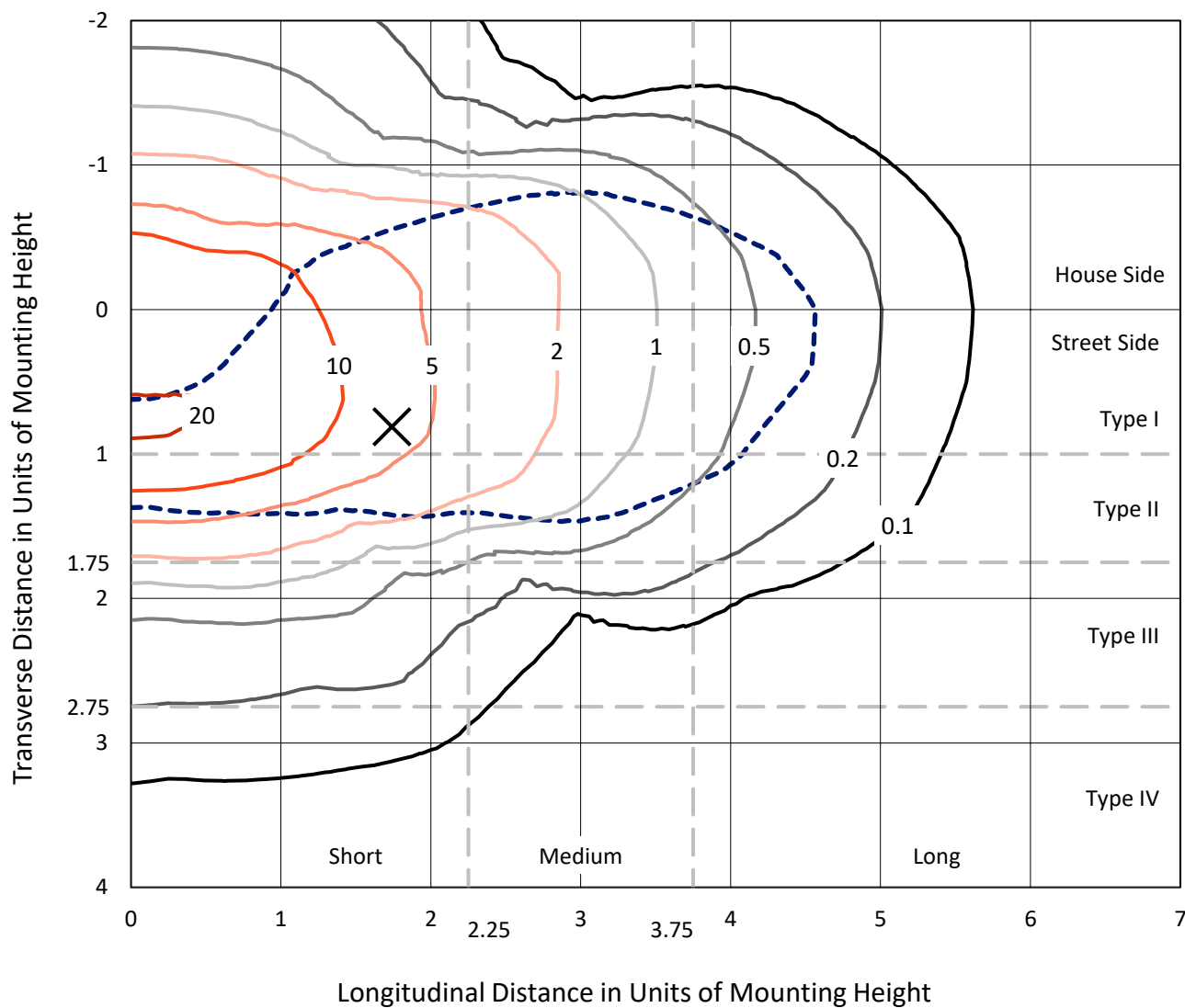
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

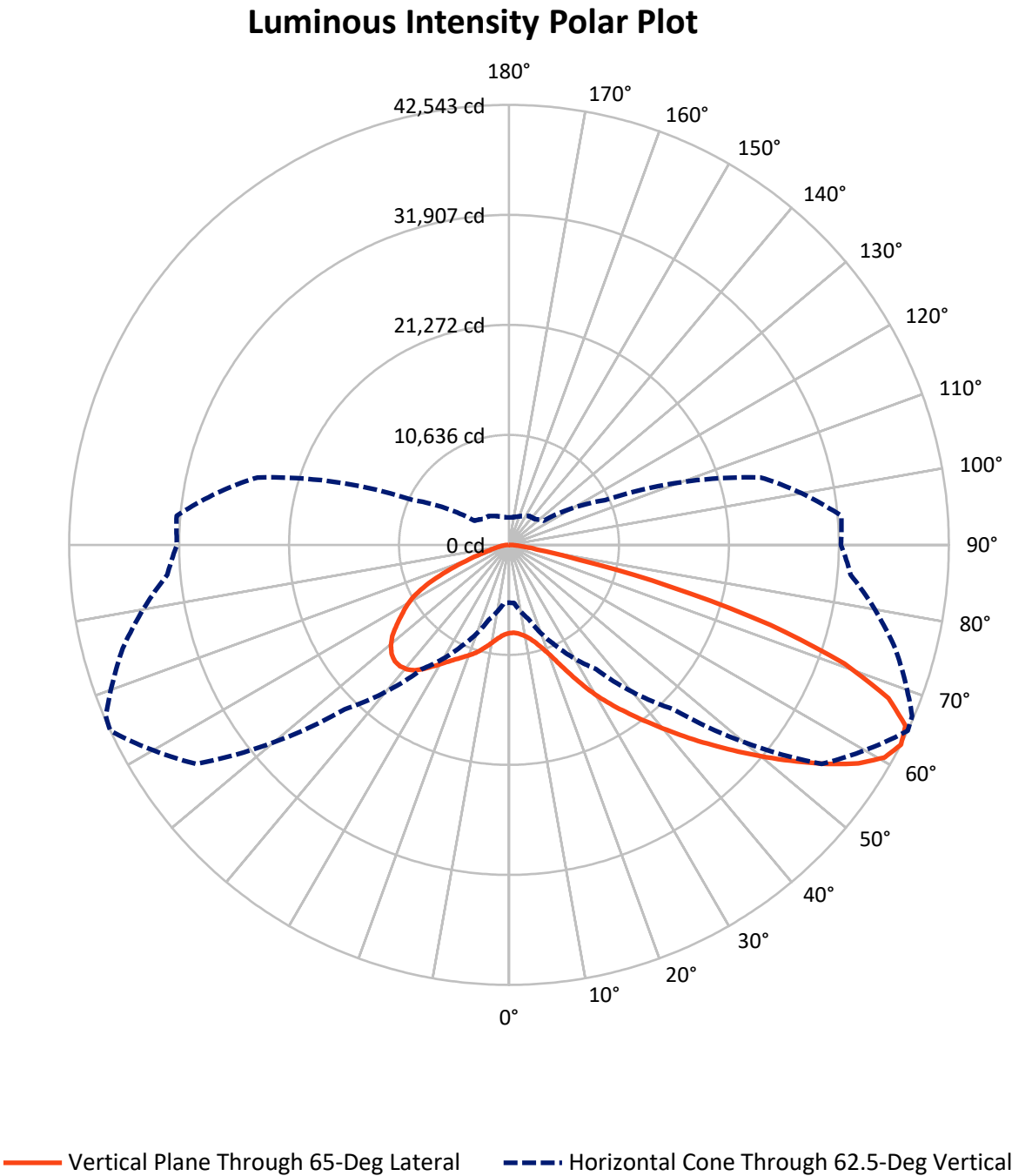
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24406.7	0.0	24406.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	52938.3	0.0	52938.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	77345.0	0.0	77345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.7	1.1
10°-20°	2881.5	3.7
20°-30°	5842.7	7.6
30°-40°	10110.6	13.1
40°-50°	15300.5	19.8
50°-60°	17938.8	23.2
60°-70°	15039.5	19.4
70°-80°	8303.1	10.7
80°-90°	1078.5	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°	77345.0	100.0
0°-180°	77345.0	100.0

Coefficient of Utilization



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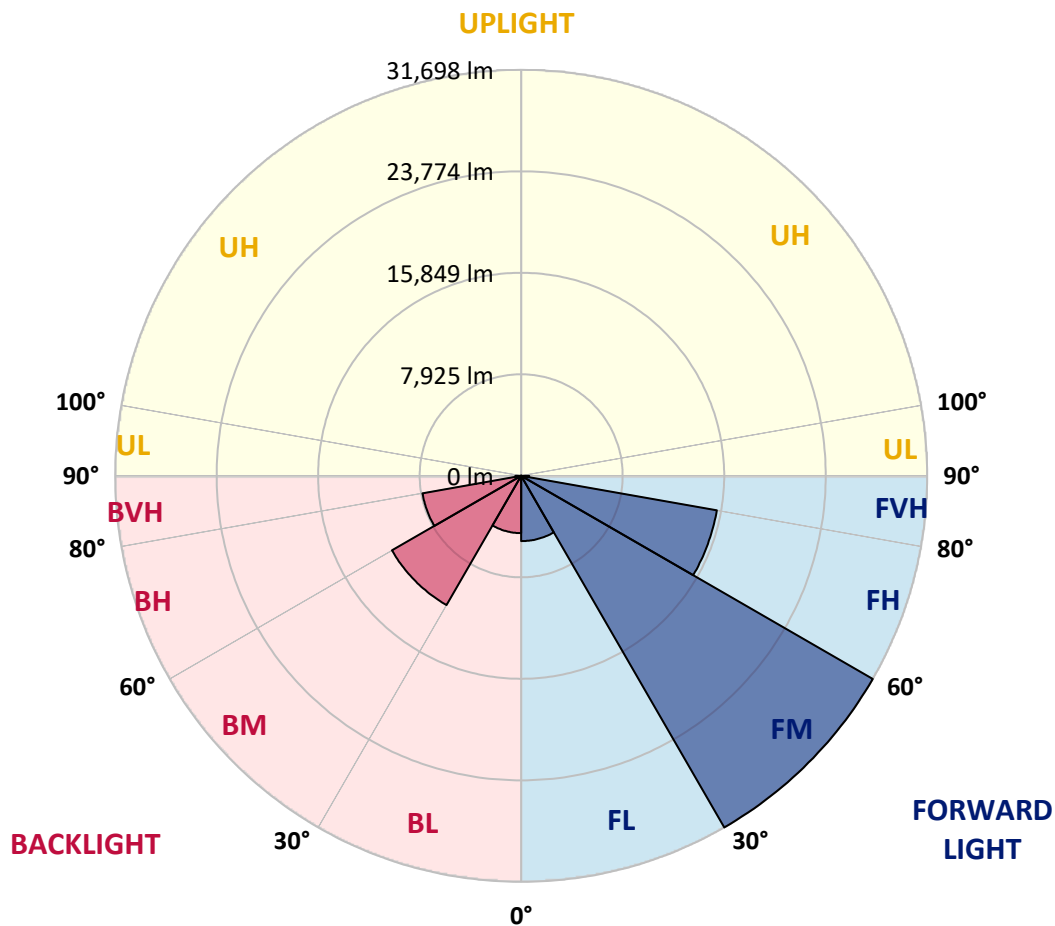
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5098.1	6.6			
FM	(30°-60°)	31698.5	41.0			
FH	(60°-80°)	15513.1	20.1			G5
FVH	(80°-90°)	628.6	0.8			G4/750
BL	(0°-30°)	4475.9	5.8	B4/5000		
BM	(30°-60°)	11651.4	15.1	B5		
BH	(60°-80°)	7829.5	10.1	B5		G5
BVH	(80°-90°)	449.9	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°	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1
2.5°	8466.9	8442.8	8462.9	8462.9	8470.9	8466.9	8495.0	8503.0	8515.1	8539.1	8539.1
5°	8382.6	8378.6	8414.7	8446.8	8478.9	8507.0	8543.1	8595.3	8603.3	8631.4	8667.5
7.5°	8354.5	8330.5	8386.7	8426.8	8503.0	8571.2	8667.5	8755.8	8791.9	8804.0	8872.2
10°	8571.2	8531.1	8583.3	8607.4	8671.6	8739.8	8852.1	8992.6	9032.7	9080.9	9157.1
12.5°	8940.4	8896.3	8972.5	9008.6	9068.8	9129.0	9205.3	9341.7	9361.7	9450.0	9522.3
15°	9446.0	9393.9	9442.0	9486.1	9586.5	9642.6	9718.9	9851.3	9851.3	9919.5	9971.7
17.5°	10132.2	10064.0	10100.1	10116.1	10180.3	10264.6	10393.0	10509.4	10569.6	10545.5	10473.3
20°	11155.4	11071.2	11071.2	10990.9	10966.8	11035.1	11203.6	11364.1	11428.3	11303.9	11127.4
22.5°	12692.3	12571.9	12503.7	12230.9	12122.5	12130.5	12299.1	12495.7	12547.9	12327.2	11929.9
25°	14646.5	14457.9	14365.6	13964.4	13719.6	13506.9	13639.3	13892.1	13964.4	13691.5	13049.5
27.5°	16600.8	16612.8	16524.5	16043.0	15637.7	15248.5	15180.2	15445.1	15521.3	15212.3	14417.8
30°	19341.5	19056.6	18888.0	18310.2	17732.3	17186.6	16905.7	17014.1	17034.1	16665.0	15742.0
32.5°	21705.0	21632.7	21271.6	20766.0	20023.6	19168.9	18699.4	18526.9	18494.8	17969.1	16873.6
35°	24397.5	24357.4	23976.2	23374.3	22571.7	21384.0	20537.3	20043.7	20003.6	19265.2	17993.2
37.5°	27134.2	27134.2	26761.0	26102.9	25272.3	23787.6	22499.5	21717.0	21588.6	20625.5	19132.8
40°	29317.2	29184.7	29253.0	28976.1	28025.1	26448.0	24678.4	23542.8	23370.3	22214.6	20344.6
42.5°	30557.1	30513.0	30922.3	31231.2	30842.0	29582.0	27078.0	25521.1	25280.3	23964.2	21741.1
45°	30834.0	30785.8	31516.1	32647.7	33193.5	32675.8	29686.3	27603.7	27310.8	25794.0	23237.8
47.5°	30196.0	30099.6	31171.1	32956.7	34706.3	35617.2	32511.3	29862.9	29437.5	27575.6	24774.7
50°	28277.9	28185.6	29806.7	32178.3	35215.9	37615.5	35577.1	32258.5	31608.4	29485.7	26327.7
52.5°	24108.6	24152.7	26692.8	29951.2	34545.8	38859.5	38217.4	34782.5	34000.0	31439.9	27784.3
55°	18779.7	18876.0	21997.9	25585.3	31865.3	38670.9	40019.2	37382.8	36604.3	33277.7	29289.1
57.5°	13446.7	13872.1	16797.4	20348.7	26716.9	35681.4	40412.4	39854.6	39100.2	35284.1	30761.8
60°	8715.7	8791.9	11801.5	15380.9	20344.6	30368.5	39613.9	41728.6	41138.7	37330.6	31993.7
62.5°	5585.7	5637.9	7471.7	10758.2	14642.5	22467.4	36925.3	42543.2	42362.6	38682.9	33177.4
65°	4105.0	4064.9	5020.0	7110.6	9863.3	13856.0	31704.7	42149.9	42507.1	39529.6	34156.5
67.5°	3426.9	3370.7	3840.2	4923.6	7267.1	7869.0	23458.5	39593.8	40902.0	39433.3	34874.8
70°	3121.9	3073.8	3358.7	3655.6	5670.0	5268.7	11825.6	34421.4	36435.8	38337.8	34758.5
72.5°	2644.4	2560.1	2949.4	3246.3	4410.0	4040.8	4887.5	26440.0	28895.8	34826.7	33121.2
75°	2050.5	1994.3	2327.4	2857.1	3314.5	3154.0	3089.8	16055.0	18735.5	26933.6	28976.1
77.5°	1625.2	1548.9	1853.9	2227.1	2981.5	2379.6	2251.2	6914.0	9570.4	17194.6	21680.9
80°	1223.9	1155.7	1408.5	1761.6	2291.3	1793.7	1456.6	2821.0	3607.5	8711.7	10902.6
82.5°	870.8	810.6	983.1	1292.1	1540.9	1609.1	894.8	1581.0	1777.6	3358.7	2435.7
85°	557.8	521.7	658.1	810.6	979.1	1035.3	545.7	826.6	906.9	1384.4	1015.2
87.5°	305.0	248.8	353.1	377.2	453.4	413.3	260.8	301.0	325.0	501.6	429.4
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°	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1	8523.1
2.5°	8555.2	8567.2	8607.4	8619.4	8647.5	8683.6	8707.7	8731.7	8731.7	8755.8	8755.8
5°	8671.6	8699.6	8783.9	8828.1	8900.3	8972.5	9016.7	9068.8	9100.9	9117.0	9125.0
7.5°	8896.3	8940.4	9060.8	9137.0	9261.4	9361.7	9430.0	9502.2	9518.2	9562.4	9546.3
10°	9201.2	9253.4	9389.8	9534.3	9682.8	9807.2	9871.4	9923.5	9943.6	9951.6	9931.6
12.5°	9550.3	9626.6	9803.2	9979.7	10136.2	10244.6	10260.6	10248.6	10192.4	10144.2	10144.2
15°	9979.7	10047.9	10244.6	10437.2	10589.7	10609.7	10509.4	10445.2	10377.0	10364.9	10364.9
17.5°	10493.3	10529.5	10710.0	10898.6	10910.7	10842.5	10694.0	10633.8	10569.6	10525.4	10529.5
20°	11091.2	11079.2	11207.6	11287.9	11203.6	10994.9	10770.2	10669.9	10605.7	10553.5	10557.5
22.5°	11805.5	11713.2	11697.2	11677.1	11452.4	11015.0	10710.0	10581.6	10481.3	10409.1	10433.2
25°	12844.8	12491.7	12246.9	12110.5	11604.9	10906.7	10517.4	10232.5	10043.9	9919.5	9967.7
27.5°	14144.9	13551.1	12933.1	12600.0	11604.9	10686.0	10051.9	9590.5	9281.5	9153.1	9217.3
30°	15384.9	14762.9	13852.0	13189.9	11576.8	10324.8	9301.6	8659.5	8298.4	8170.0	8246.2
32.5°	16444.3	15766.1	14827.1	13836.0	11508.6	9738.9	8370.6	7660.3	7311.2	7158.7	7235.0
35°	17427.4	16705.1	15806.2	14546.2	11328.0	8880.2	7347.3	6805.6	6416.4	6171.6	6251.9
37.5°	18434.6	17575.9	16733.2	15188.3	11003.0	7877.0	6560.8	6099.4	5641.9	5312.9	5401.2
40°	19530.1	18502.8	17724.3	15569.5	10469.3	6922.0	5950.9	5529.6	5044.0	4694.9	4763.1
42.5°	20810.1	19614.3	18827.8	15766.1	9738.9	6243.8	5553.6	5140.3	4682.9	4398.0	4454.2
45°	22146.4	20838.2	19835.0	15762.1	8924.4	5926.8	5425.2	5015.9	4510.3	4213.4	4261.5
47.5°	23546.8	22118.3	20705.8	15505.3	8218.1	5971.0	5353.0	4747.1	4189.3	3900.4	3940.5
50°	24951.3	23518.7	21548.5	15023.7	7917.2	5874.7	5084.2	4369.9	3711.8	3451.0	3467.0
52.5°	26343.7	25007.5	22274.8	14337.6	7612.2	5517.5	4739.1	3880.3	3515.2	3334.6	3334.6
55°	27744.2	26480.1	23065.3	13338.4	6849.8	5100.2	4161.2	3695.7	3358.7	3194.1	3178.1
57.5°	29148.6	28181.6	23815.7	12339.2	5890.7	4586.6	3844.2	3471.0	3202.2	3061.7	3037.7
60°	30609.3	30127.7	24590.1	11420.3	4943.7	3928.5	3611.5	3290.5	3017.6	2861.1	2849.1
62.5°	32114.0	32270.5	25196.1	10236.5	4072.9	3527.2	3402.8	3073.8	2808.9	2660.5	2656.4
65°	33630.9	34337.1	25593.3	8595.3	3302.5	3146.0	3178.1	2837.0	2568.2	2439.8	2435.7
67.5°	34774.5	35825.8	25481.0	6504.7	2708.6	2784.8	2897.2	2588.2	2335.4	2235.1	2239.1
70°	34902.9	35649.3	24373.5	4454.2	2267.2	2431.7	2584.2	2343.4	2082.6	2010.4	2014.4
72.5°	33193.5	33241.6	21287.6	2909.2	1918.1	2134.8	2255.2	2094.7	1841.9	1769.6	1765.6
75°	28711.2	27491.4	15629.7	1918.1	1605.1	1833.8	1946.2	1833.8	1589.0	1605.1	1548.9
77.5°	21753.1	19469.9	9490.2	1364.3	1340.3	1540.9	1693.4	1613.1	1404.5	1577.0	1388.4
80°	11207.6	10533.5	4233.5	1019.2	1059.4	1231.9	1392.4	1288.1	1111.5	1059.4	967.1
82.5°	2568.2	2985.5	1669.3	730.3	766.4	886.8	1063.4	967.1	798.5	674.1	666.1
85°	898.9	983.1	738.3	457.5	449.4	553.8	722.3	646.1	541.7	433.4	457.5
87.5°	284.9	373.2	276.9	184.6	192.6	248.8	333.1	305.0	252.8	164.5	172.5
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)