

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: P943997

Luminaire Tested: **GALN-SB8D-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943997
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-SB8D-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76374 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - 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



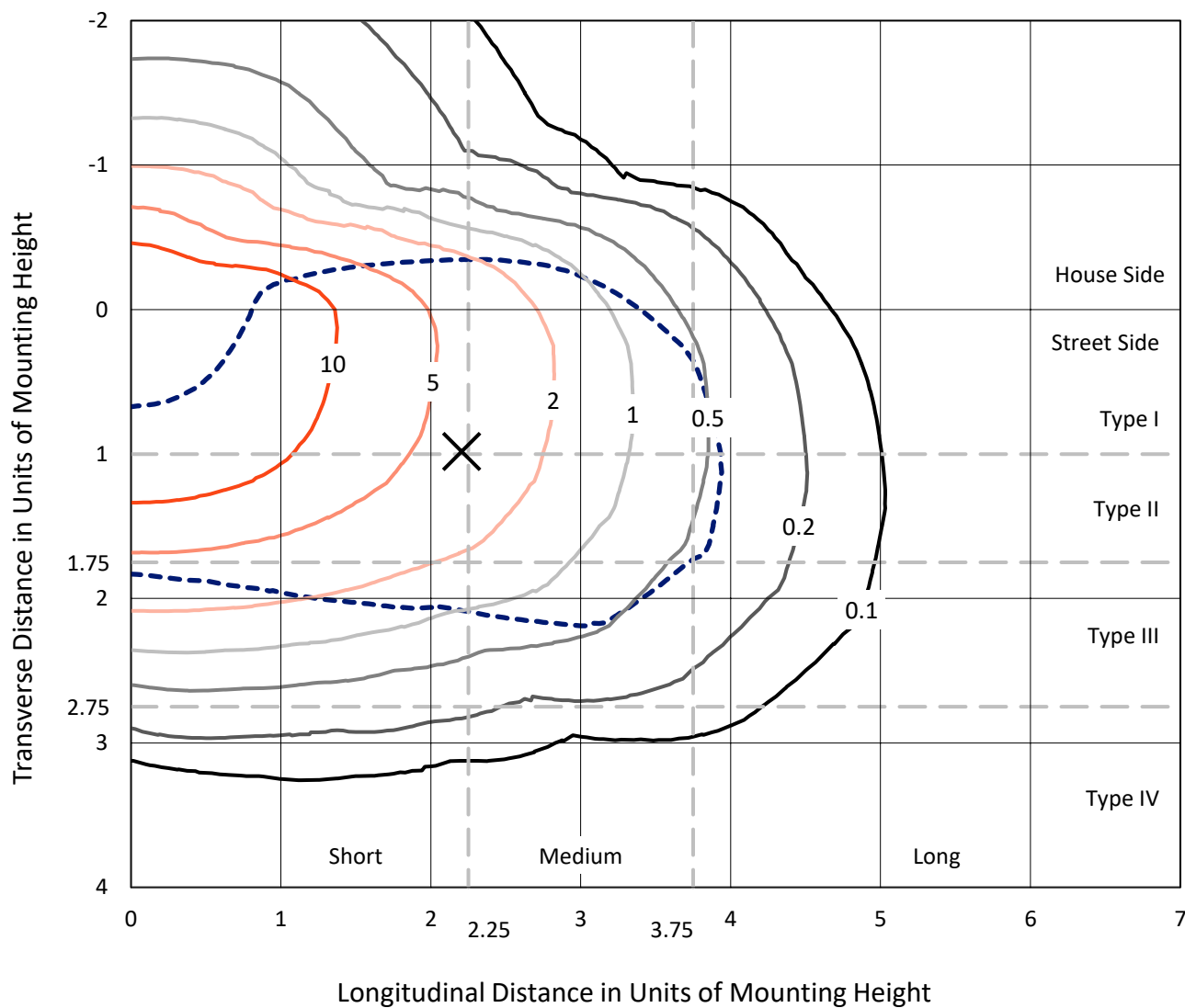
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

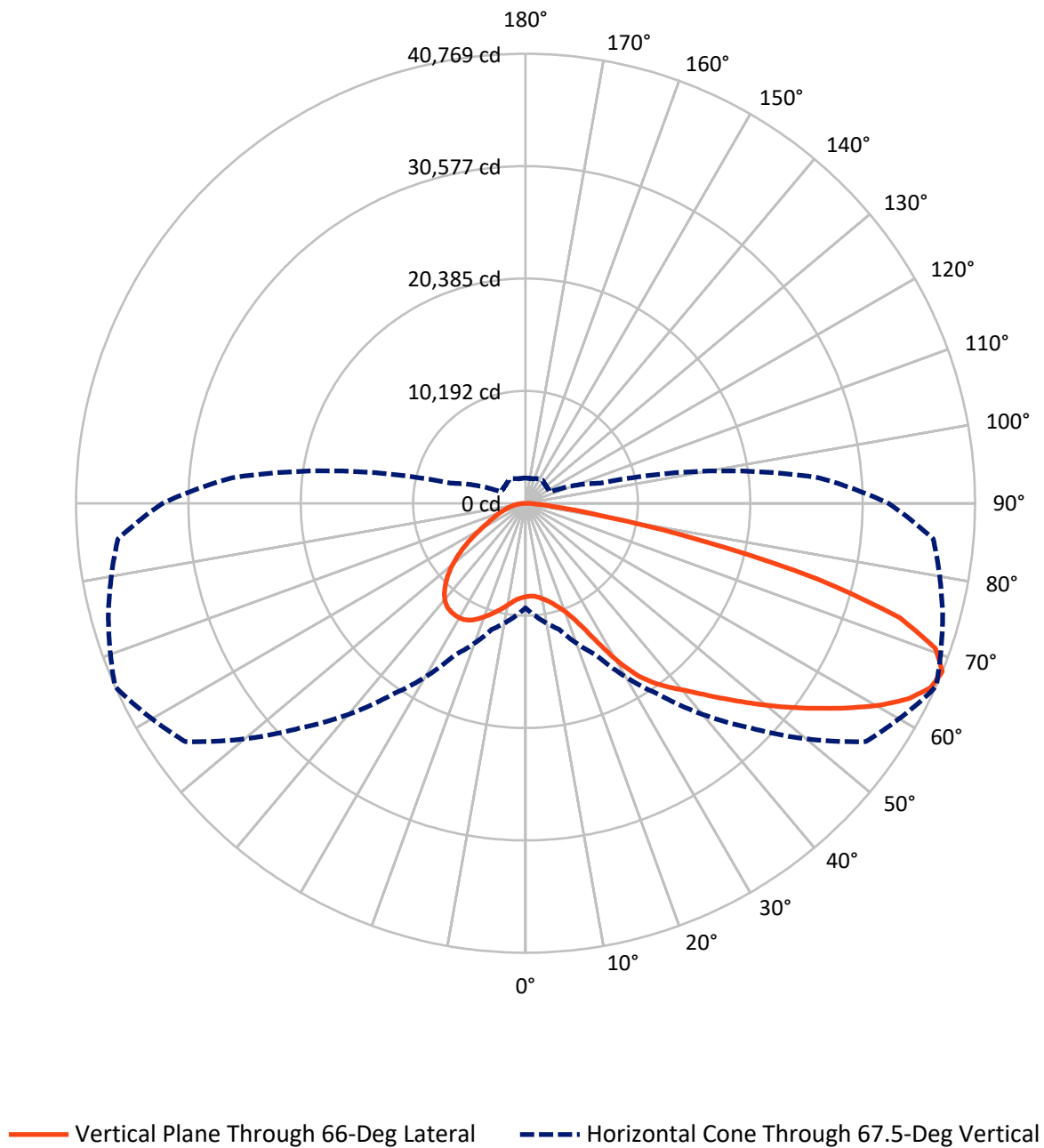


Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18990.2	0.0	18990.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	57383.8	0.0	57383.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	76374.0	0.0	76374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.8	1.1
10°-20°	2774.8	3.6
20°-30°	5348.2	7.0
30°-40°	9377.4	12.3
40°-50°	13941.1	18.3
50°-60°	17671.7	23.1
60°-70°	17291.3	22.6
70°-80°	8248.1	10.8
80°-90°	881.5	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°	76374.0	100.0
0°-180°	76374.0	100.0

Coefficient of Utilization



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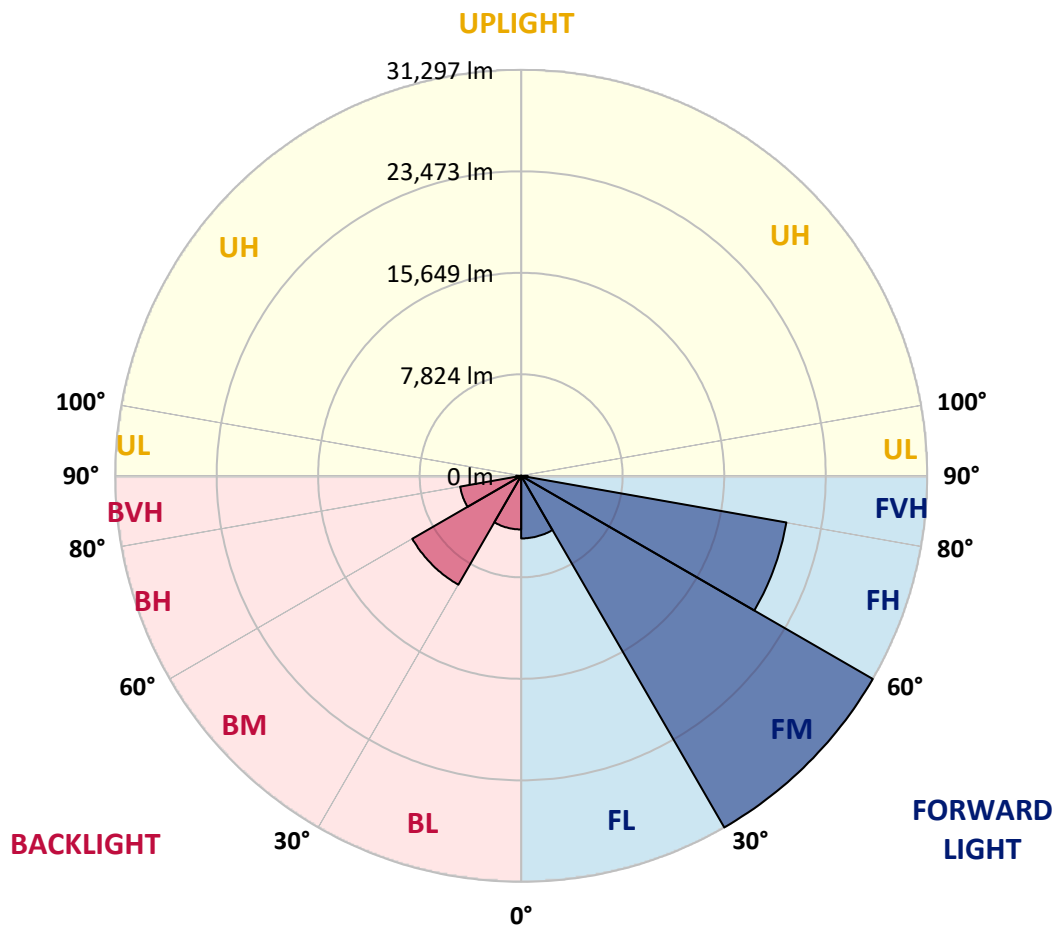
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4826.1	6.3			
FM	(30°-60°)	31297.4	41.0			
FH	(60°-80°)	20760.5	27.2			G5
FVH	(80°-90°)	499.8	0.7			G3/500
BL	(0°-30°)	4136.7	5.4	B4/5000		
BM	(30°-60°)	9692.8	12.7	B5		
BH	(60°-80°)	4778.9	6.3	B4/5000		G4/5000
BVH	(80°-90°)	381.7	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9
2.5°	8382.6	8430.8	8418.7	8398.7	8394.6	8402.7	8414.7	8426.7	8422.7	8442.8	8474.9
5°	8358.5	8406.7	8402.7	8402.7	8418.7	8450.8	8470.9	8490.9	8470.9	8495.0	8539.1
7.5°	8374.6	8410.7	8426.7	8442.8	8482.9	8543.1	8591.3	8635.4	8611.3	8639.4	8695.6
10°	8579.2	8607.3	8623.4	8623.4	8651.5	8719.7	8767.8	8848.1	8828.0	8872.2	8944.4
12.5°	8952.4	8980.5	8980.5	8964.5	8984.5	9028.7	9044.7	9133.0	9096.9	9169.1	9241.3
15°	9409.9	9466.0	9421.9	9393.8	9401.8	9446.0	9442.0	9510.2	9474.1	9534.3	9598.5
17.5°	9915.5	9987.7	9915.5	9911.5	9895.4	9943.6	9947.6	10007.8	9943.6	9987.7	10031.8
20°	10513.4	10613.7	10553.5	10573.6	10537.4	10557.5	10577.6	10665.9	10565.5	10597.6	10585.6
22.5°	11356.0	11476.4	11412.2	11488.5	11464.4	11448.3	11444.3	11600.8	11444.3	11456.4	11340.0
25°	12583.9	12728.4	12616.0	12720.4	12720.4	12772.5	12832.7	13033.4	12772.5	12696.3	12395.3
27.5°	14397.7	14542.2	14321.5	14385.7	14365.6	14494.0	14429.8	14927.4	14646.5	14522.1	13916.2
30°	16580.6	16837.4	16420.1	16404.1	16384.0	16588.7	16680.9	17010.0	16725.1	16600.7	15870.4
32.5°	18940.1	19209.0	18711.4	18566.9	18490.7	18615.1	18538.8	18803.7	18607.1	18414.4	17511.6
35°	21436.0	21700.9	21227.4	20946.5	20641.5	20380.7	20107.8	20176.0	19991.5	19698.5	18763.6
37.5°	23795.5	24281.1	23779.5	23478.5	22916.7	22407.1	21644.7	21327.7	21155.1	20886.3	19943.3
40°	26199.2	26476.0	26094.8	25838.0	25228.1	24429.5	23209.7	22539.5	22306.8	22046.0	21247.4
42.5°	27968.8	28233.6	28029.0	27852.4	27374.9	26447.9	24870.9	24032.3	23695.2	23402.3	22724.1
45°	29373.2	29569.9	29441.4	29505.6	29301.0	28402.1	26592.4	25633.4	25284.3	24927.1	24393.4
47.5°	29939.0	30147.7	30352.3	30733.5	31082.7	30420.6	28442.3	27366.9	26997.7	26632.5	26106.9
50°	29874.8	30087.5	30681.4	31492.0	32575.4	32354.7	30392.5	29212.7	28871.6	28454.3	27968.8
52.5°	29361.2	29602.0	30364.4	31712.7	33438.1	33803.3	32378.8	31118.8	30797.7	30300.2	29814.6
55°	28012.9	28157.4	29301.0	31211.1	33642.8	34814.5	34324.9	33149.2	32828.2	32134.0	31604.3
57.5°	25513.0	25721.6	27386.9	29858.8	33129.1	35500.7	36034.4	35284.0	34975.0	33975.8	33422.1
60°	22250.6	22583.7	24489.7	27587.6	31821.0	35496.7	37587.3	37382.6	37125.8	35789.6	35211.8
62.5°	18558.9	18944.1	20777.9	24377.4	29533.7	34489.5	38558.4	39140.2	39007.8	37462.9	36724.6
65°	14253.2	14518.1	16343.9	20224.2	25974.4	32326.6	38670.7	40340.0	40364.1	38734.9	37515.1
67.5°	9490.1	10252.5	11837.6	15176.2	21207.3	28791.4	37683.6	40536.7	40769.4	39172.3	37117.8
70°	4630.7	5633.9	7186.8	9863.3	15176.2	23370.2	35103.4	38923.5	39441.2	37896.3	34750.3
72.5°	1922.1	2247.1	3093.8	4867.4	8711.7	15770.1	29919.0	34549.7	35508.7	33578.6	29216.7
75°	1296.1	1404.5	1769.6	2495.9	3968.6	7776.7	21576.5	25761.8	27306.7	25360.5	20729.8
77.5°	999.2	1067.4	1288.1	1745.5	2359.5	2941.3	11548.7	15525.3	16323.8	15112.0	10786.2
80°	786.5	838.7	963.1	1272.0	1673.3	1573.0	3936.5	7034.3	7495.8	6288.0	3467.0
82.5°	682.2	702.2	690.2	862.7	1111.5	918.9	1292.1	2596.2	2865.1	2078.6	1131.6
85°	493.6	549.7	573.8	533.7	589.9	465.5	529.7	918.9	1011.2	902.9	638.0
87.5°	200.6	296.9	365.2	345.1	216.7	132.4	164.5	268.9	309.0	337.1	208.7
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°	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9	8470.9
2.5°	8478.9	8507.0	8527.1	8551.1	8567.2	8591.3	8639.4	8667.5	8671.5	8691.6	8687.6
5°	8555.2	8595.3	8639.4	8703.6	8775.9	8836.0	8928.3	8992.5	9016.6	9036.7	9032.7
7.5°	8719.7	8775.9	8856.1	8968.5	9072.8	9153.1	9265.4	9341.6	9417.9	9446.0	9450.0
10°	8964.5	9044.7	9161.1	9313.6	9425.9	9530.2	9646.6	9710.8	9787.1	9819.2	9835.2
12.5°	9269.4	9353.7	9506.2	9718.8	9823.2	9895.4	9935.5	9919.5	9935.5	9963.6	9971.6
15°	9618.5	9710.8	9883.4	10112.1	10184.3	10120.1	10031.8	9951.6	9939.5	9947.6	9975.7
17.5°	10031.8	10100.1	10300.7	10493.3	10441.1	10176.3	9983.7	9855.3	9791.1	9771.0	9799.1
20°	10609.7	10609.7	10774.2	10894.6	10545.5	10096.0	9795.1	9586.4	9454.0	9397.8	9385.8
22.5°	11311.9	11247.7	11352.0	11267.8	10525.4	9871.3	9454.0	9092.9	8892.2	8812.0	8799.9
25°	12202.7	12126.5	12098.4	11576.7	10380.9	9514.2	8836.0	8398.7	8222.1	8178.0	8186.0
27.5°	13547.0	13354.4	12989.2	11745.3	10116.1	8952.4	8113.8	7708.5	7608.1	7612.2	7624.2
30°	15336.7	14951.5	14056.6	11773.4	9682.7	8157.9	7375.4	7086.5	7038.3	7058.4	7126.6
32.5°	16993.9	16628.8	15148.1	11645.0	9016.6	7379.4	6713.3	6520.7	6448.5	6472.5	6504.6
35°	18294.1	18193.7	16159.3	11464.4	8198.0	6649.1	6119.4	5954.9	5814.5	5782.4	5806.4
37.5°	19522.0	19481.8	16917.7	11211.6	7387.4	6131.5	5641.9	5425.2	5220.6	5108.2	5112.2
40°	20870.2	20830.1	17415.3	10822.3	6669.2	5682.0	5212.5	4927.6	4674.8	4470.2	4490.3
42.5°	22387.1	22150.3	17652.0	10264.6	6059.2	5300.8	4863.4	4478.2	4145.2	3956.6	3968.6
45°	24044.3	23510.6	17648.0	9554.3	5545.6	4951.7	4490.3	3944.5	3635.5	3459.0	3451.0
47.5°	25801.9	24810.7	17431.3	8767.8	5048.0	4566.5	3912.4	3495.1	3290.4	3182.1	3158.0
50°	27615.6	26026.6	17062.2	7865.0	4538.4	4129.1	3551.3	3266.4	3109.9	3009.6	2973.4
52.5°	29321.1	27130.1	16616.7	6841.7	4020.8	3703.8	3390.8	3170.1	3005.5	2893.2	2845.0
55°	30906.1	28081.1	15986.7	5794.4	3599.4	3418.9	3314.5	3129.9	2941.3	2808.9	2756.7
57.5°	32314.6	28699.1	14899.3	4811.3	3298.5	3222.2	3234.3	3061.7	2845.0	2732.7	2660.4
60°	33486.3	29152.5	13290.2	3900.4	3053.7	3029.6	3109.9	2933.3	2680.5	2552.1	2495.9
62.5°	34188.5	29144.5	11315.9	3194.1	2845.0	2853.1	2945.3	2772.8	2516.0	2395.6	2359.5
65°	34128.3	28430.2	9149.0	2732.7	2644.4	2652.4	2772.8	2596.2	2379.6	2307.3	2303.3
67.5°	32920.5	26688.7	7018.3	2431.7	2423.7	2459.8	2600.3	2475.9	2295.3	2287.3	2299.3
70°	29650.1	23073.2	5056.0	2191.0	2195.0	2247.1	2431.7	2399.6	2251.1	2267.2	2263.2
72.5°	23775.5	17591.8	3394.8	1938.2	1942.2	2026.4	2271.2	2339.4	2207.0	2419.7	2451.8
75°	15834.3	10970.8	2182.9	1669.3	1673.3	1781.7	2130.8	2223.1	2086.6	2411.7	2431.7
77.5°	7608.1	4931.7	1581.0	1404.5	1404.5	1504.8	1841.8	1990.3	1777.6	1873.9	1717.5
80°	2628.3	1853.9	1243.9	1131.6	1107.5	1175.7	1552.9	1725.5	1532.9	1412.5	1324.2
82.5°	1035.3	963.1	999.2	878.8	798.5	842.7	1207.8	1424.5	1127.6	1019.2	1015.2
85°	593.9	626.0	706.2	581.8	461.5	517.6	886.8	1023.2	850.7	750.4	766.4
87.5°	160.5	220.7	325.0	301.0	208.7	220.7	421.3	565.8	489.6	377.2	389.2
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)