

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: P955241

Luminaire Tested: **GALN-SB8B-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955241
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-SB8B-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46144 lumens
Efficiency: N/A
Efficacy: 157.6 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): 292.8
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

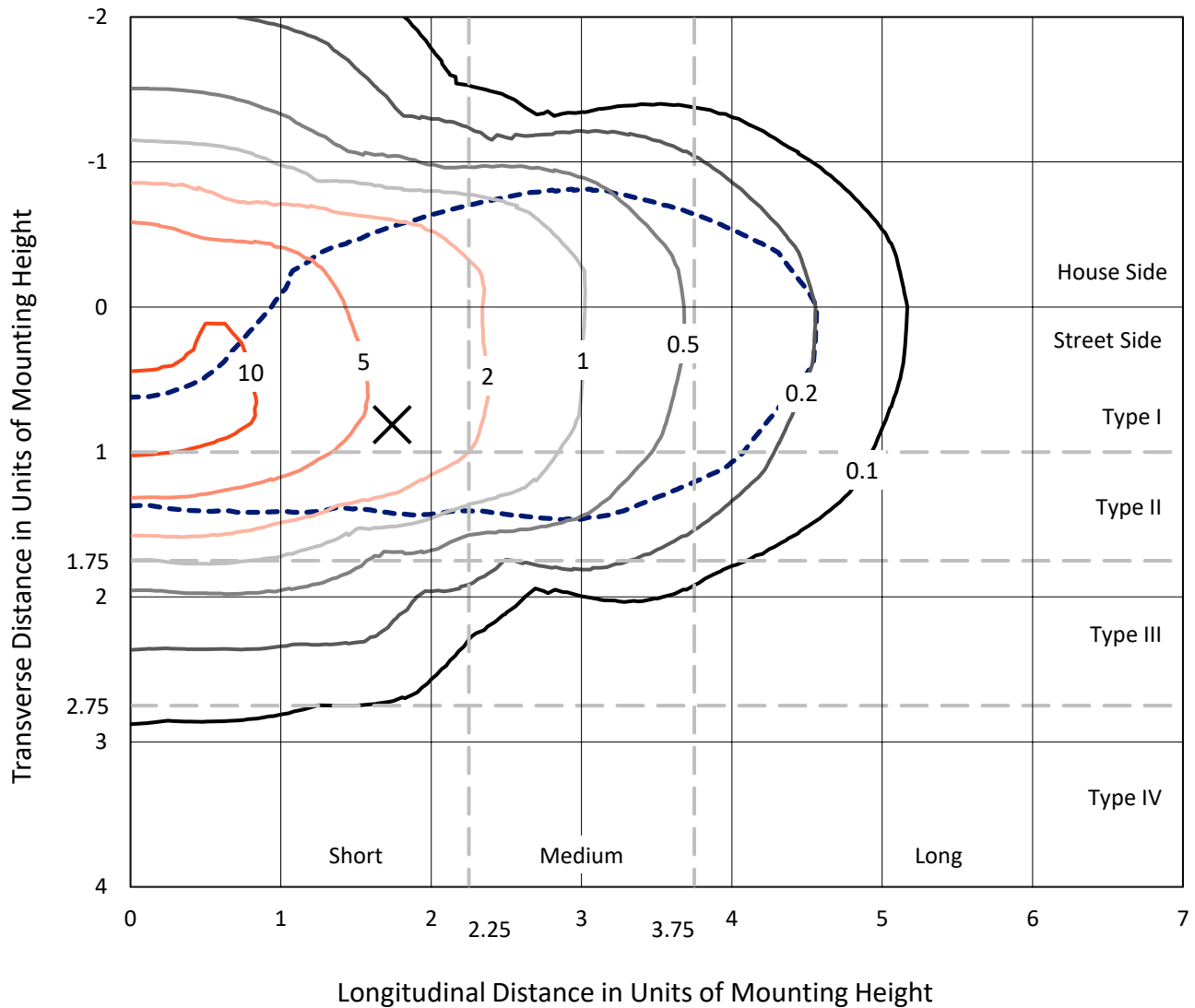


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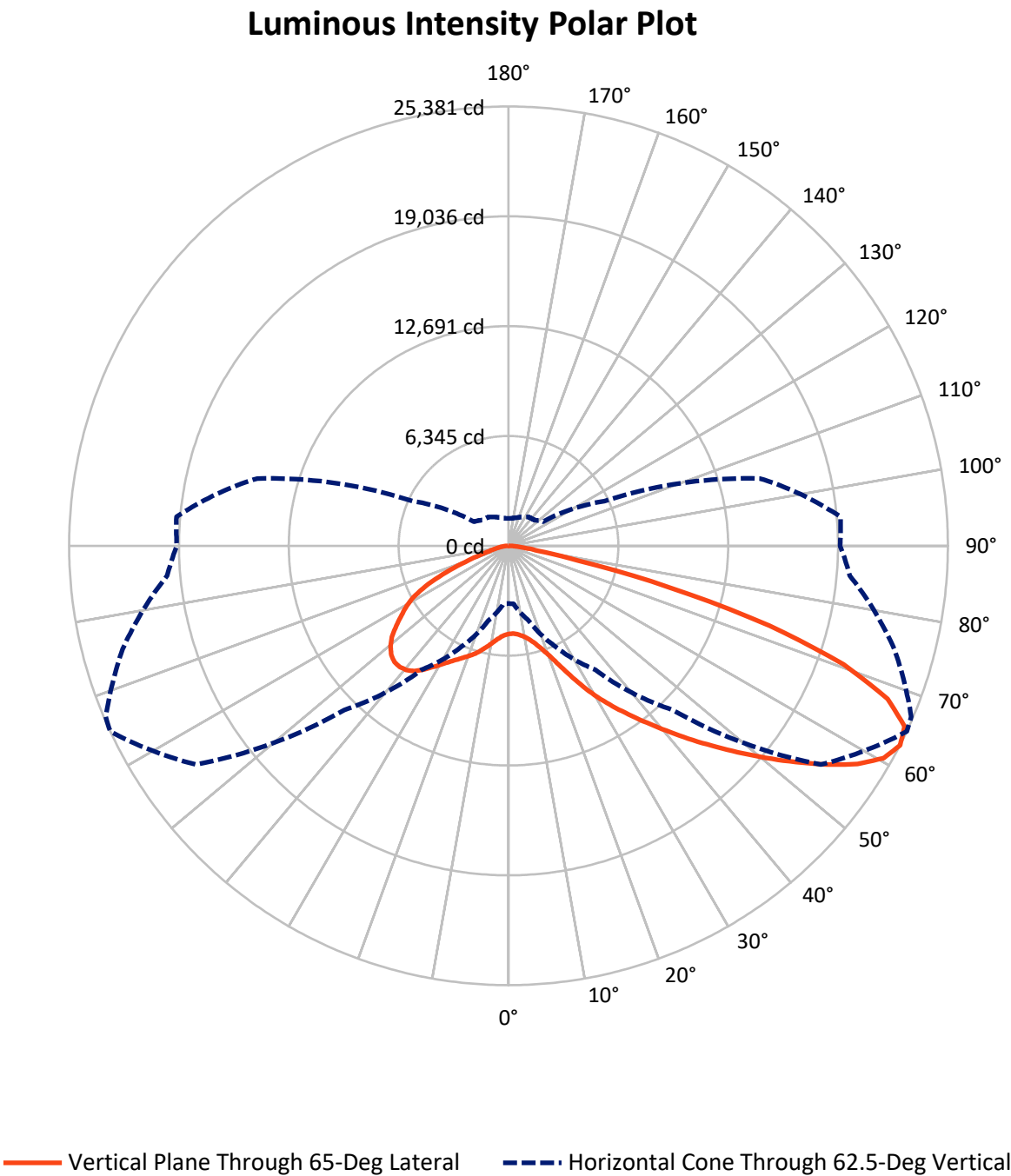
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14561.0	0.0	14561.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	31583.0	0.0	31583.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	46144.0	0.0	46144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.0	1.1
10°-20°	1719.1	3.7
20°-30°	3485.7	7.6
30°-40°	6032.0	13.1
40°-50°	9128.3	19.8
50°-60°	10702.3	23.2
60°-70°	8972.6	19.4
70°-80°	4953.6	10.7
80°-90°	643.5	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°	46144.0	100.0
0°-180°	46144.0	100.0

Coefficient of Utilization



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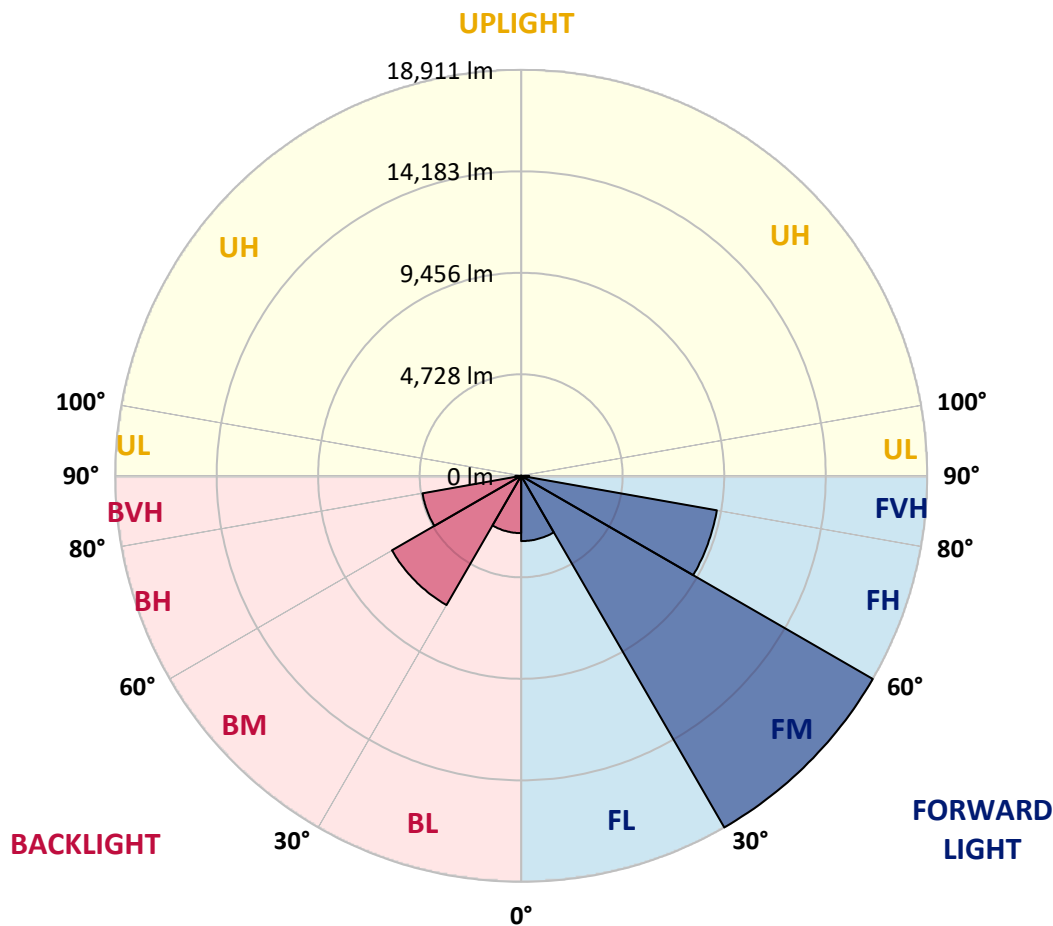
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3041.5	6.6			
FM	(30°-60°)	18911.3	41.0			
FH	(60°-80°)	9255.1	20.1			G4/12000
FVH	(80°-90°)	375.0	0.8			G3/500
BL	(0°-30°)	2670.3	5.8	B4/5000		
BM	(30°-60°)	6951.2	15.1	B4/8500		
BH	(60°-80°)	4671.1	10.1	B4/5000		G4/5000
BVH	(80°-90°)	268.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9
2.5°	5051.4	5037.0	5049.0	5049.0	5053.7	5051.4	5068.1	5072.9	5080.1	5094.4	5094.4
5°	5001.1	4998.7	5020.2	5039.4	5058.5	5075.3	5096.8	5128.0	5132.7	5149.5	5171.1
7.5°	4984.3	4970.0	5003.5	5027.4	5072.9	5113.6	5171.1	5223.7	5245.3	5252.4	5293.1
10°	5113.6	5089.7	5120.8	5135.1	5173.4	5214.1	5281.2	5365.0	5388.9	5417.6	5463.1
12.5°	5333.8	5307.5	5353.0	5374.5	5410.5	5446.4	5491.8	5573.2	5585.2	5637.9	5681.0
15°	5635.5	5604.4	5633.1	5659.4	5719.3	5752.8	5798.3	5877.3	5877.3	5918.0	5949.1
17.5°	6044.9	6004.2	6025.7	6035.3	6073.6	6123.9	6200.5	6269.9	6305.8	6291.4	6248.4
20°	6655.3	6605.1	6605.1	6557.2	6542.8	6583.5	6684.1	6779.8	6818.1	6743.9	6638.6
22.5°	7572.2	7500.4	7459.7	7296.9	7232.3	7237.1	7337.6	7454.9	7486.1	7354.4	7117.4
25°	8738.1	8625.6	8570.5	8331.1	8185.1	8058.2	8137.2	8288.0	8331.1	8168.3	7785.3
27.5°	9904.0	9911.2	9858.5	9571.2	9329.4	9097.2	9056.5	9214.5	9260.0	9075.7	8601.7
30°	11539.1	11369.1	11268.6	10923.8	10579.1	10253.5	10085.9	10150.6	10162.6	9942.3	9391.7
32.5°	12949.2	12906.1	12690.6	12389.0	11946.1	11436.2	11156.1	11053.1	11034.0	10720.4	10066.8
35°	14555.6	14531.6	14304.2	13945.1	13466.3	12757.7	12252.5	11958.1	11934.1	11493.6	10734.7
37.5°	16188.3	16188.3	15965.6	15573.0	15077.4	14191.7	13423.2	12956.4	12879.8	12305.2	11414.6
40°	17490.6	17411.6	17452.3	17287.1	16719.7	15778.9	14723.1	14045.6	13942.7	13253.2	12137.6
42.5°	18230.4	18204.0	18448.2	18632.5	18400.3	17648.6	16154.8	15225.9	15082.2	14297.0	12970.7
45°	18395.5	18366.8	18802.5	19477.6	19803.2	19494.4	17710.9	16468.4	16293.6	15388.7	13863.7
47.5°	18014.9	17957.4	18596.6	19662.0	20705.8	21249.2	19396.2	17816.2	17562.4	16451.6	14780.6
50°	16870.6	16815.5	17782.7	19197.5	21009.8	22441.4	21225.3	19245.4	18857.6	17591.2	15707.1
52.5°	14383.2	14409.5	15924.9	17868.9	20610.0	23183.6	22800.5	20751.2	20284.4	18757.0	16576.1
55°	11203.9	11261.4	13123.9	15264.2	19010.8	23071.0	23875.4	22302.6	21838.1	19853.5	17473.8
57.5°	8022.3	8276.1	10021.3	12140.0	15939.3	21287.5	24110.0	23777.3	23327.2	21050.5	18352.4
60°	5199.8	5245.3	7040.8	9176.2	12137.6	18117.8	23633.6	24895.3	24543.3	22271.4	19087.4
62.5°	3332.5	3363.6	4457.6	6418.3	8735.7	13404.0	22029.6	25381.3	25273.5	23078.2	19793.6
65°	2449.1	2425.1	2994.9	4242.2	5884.5	8266.5	18915.0	25146.6	25359.7	23583.4	20377.8
67.5°	2044.5	2011.0	2291.1	2937.4	4335.5	4694.6	13995.4	23621.7	24402.1	23525.9	20806.3
70°	1862.5	1833.8	2003.8	2180.9	3382.7	3143.3	7055.1	20535.8	21737.6	22872.3	20736.9
72.5°	1577.6	1527.4	1759.6	1936.8	2631.0	2410.8	2915.9	15774.1	17239.2	20777.6	19760.1
75°	1223.3	1189.8	1388.5	1704.5	1977.4	1881.7	1843.4	9578.4	11177.6	16068.6	17287.1
77.5°	969.6	924.1	1106.0	1328.7	1778.7	1419.6	1343.0	4124.9	5709.7	10258.3	12934.8
80°	730.2	689.5	840.3	1051.0	1367.0	1070.1	869.0	1683.0	2152.2	5197.4	6504.5
82.5°	519.5	483.6	586.5	770.9	919.3	960.0	533.9	943.2	1060.5	2003.8	1453.2
85°	332.8	311.2	392.6	483.6	584.1	617.7	325.6	493.2	541.0	825.9	605.7
87.5°	181.9	148.4	210.7	225.0	270.5	246.6	155.6	179.6	193.9	299.3	256.2
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°	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9	5084.9
2.5°	5104.0	5111.2	5135.1	5142.3	5159.1	5180.6	5195.0	5209.4	5209.4	5223.7	5223.7
5°	5173.4	5190.2	5240.5	5266.8	5309.9	5353.0	5379.3	5410.5	5429.6	5439.2	5444.0
7.5°	5307.5	5333.8	5405.7	5451.2	5525.4	5585.2	5625.9	5669.0	5678.6	5704.9	5695.3
10°	5489.5	5520.6	5602.0	5688.2	5776.7	5851.0	5889.3	5920.4	5932.3	5937.1	5925.2
12.5°	5697.7	5743.2	5848.6	5953.9	6047.3	6111.9	6121.5	6114.3	6080.8	6052.0	6052.0
15°	5953.9	5994.6	6111.9	6226.8	6317.8	6329.8	6269.9	6231.6	6190.9	6183.7	6183.7
17.5°	6260.3	6281.9	6389.6	6502.1	6509.3	6468.6	6380.0	6344.1	6305.8	6279.5	6281.9
20°	6617.0	6609.9	6686.5	6734.3	6684.1	6559.6	6425.5	6365.7	6327.4	6296.2	6298.6
22.5°	7043.2	6988.1	6978.5	6966.6	6832.5	6571.5	6389.6	6313.0	6253.1	6210.1	6224.4
25°	7663.2	7452.5	7306.5	7225.1	6923.5	6506.9	6274.7	6104.7	5992.2	5918.0	5946.7
27.5°	8438.9	8084.6	7715.9	7517.2	6923.5	6375.2	5997.0	5721.7	5537.3	5460.7	5499.0
30°	9178.6	8807.5	8264.1	7869.1	6906.7	6159.8	5549.3	5166.3	4950.8	4874.2	4919.7
32.5°	9810.6	9406.0	8845.9	8254.5	6866.0	5810.3	4993.9	4570.2	4361.9	4270.9	4316.4
35°	10397.2	9966.2	9430.0	8678.3	6758.3	5297.9	4383.4	4060.2	3828.0	3682.0	3729.9
37.5°	10998.1	10485.7	9983.0	9061.3	6564.4	4699.4	3914.2	3638.9	3366.0	3169.7	3222.3
40°	11651.6	11038.8	10574.3	9288.7	6246.0	4129.7	3550.3	3298.9	3009.3	2801.0	2841.7
42.5°	12415.3	11701.9	11232.7	9406.0	5810.3	3725.1	3313.3	3066.7	2793.8	2623.8	2657.3
45°	13212.5	12432.1	11833.6	9403.7	5324.3	3535.9	3236.7	2992.5	2690.9	2513.7	2542.4
47.5°	14048.0	13195.8	12353.1	9250.4	4902.9	3562.3	3193.6	2832.1	2499.3	2327.0	2350.9
50°	14885.9	14031.3	12855.8	8963.2	4723.4	3504.8	3033.2	2607.1	2214.5	2058.8	2068.4
52.5°	15716.6	14919.4	13289.1	8553.8	4541.4	3291.8	2827.3	2315.0	2097.1	1989.4	1989.4
55°	16552.2	15798.0	13760.7	7957.7	4086.6	3042.8	2482.6	2204.9	2003.8	1905.6	1896.1
57.5°	17390.1	16813.1	14208.4	7361.6	3514.4	2736.3	2293.5	2070.8	1910.4	1826.6	1812.3
60°	18261.5	17974.2	14670.5	6813.3	2949.4	2343.7	2154.6	1963.1	1800.3	1706.9	1699.7
62.5°	19159.2	19252.6	15032.0	6107.1	2429.9	2104.3	2030.1	1833.8	1675.8	1587.2	1584.8
65°	20064.2	20485.5	15269.0	5128.0	1970.3	1876.9	1896.1	1692.6	1532.2	1455.6	1453.2
67.5°	20746.5	21373.7	15201.9	3880.7	1616.0	1661.4	1728.5	1544.1	1393.3	1333.5	1335.9
70°	20823.1	21268.3	14541.2	2657.3	1352.6	1450.8	1541.7	1398.1	1242.5	1199.4	1201.8
72.5°	19803.2	19831.9	12700.2	1735.7	1144.3	1273.6	1345.4	1249.7	1098.8	1055.8	1053.4
75°	17129.1	16401.3	9324.7	1144.3	957.6	1094.1	1161.1	1094.1	948.0	957.6	924.1
77.5°	12977.9	11615.7	5661.8	814.0	799.6	919.3	1010.3	962.4	837.9	940.8	828.3
80°	6686.5	6284.3	2525.7	608.1	632.0	735.0	830.7	768.5	663.1	632.0	577.0
82.5°	1532.2	1781.1	995.9	435.7	457.3	529.1	634.4	577.0	476.4	402.2	397.4
85°	536.3	586.5	440.5	272.9	268.1	330.4	430.9	385.4	323.2	258.6	272.9
87.5°	170.0	222.6	165.2	110.1	114.9	148.4	198.7	181.9	150.8	98.2	102.9
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)