

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: P950224

Luminaire Tested: **GALN-SB4D-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38834 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 293.6
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

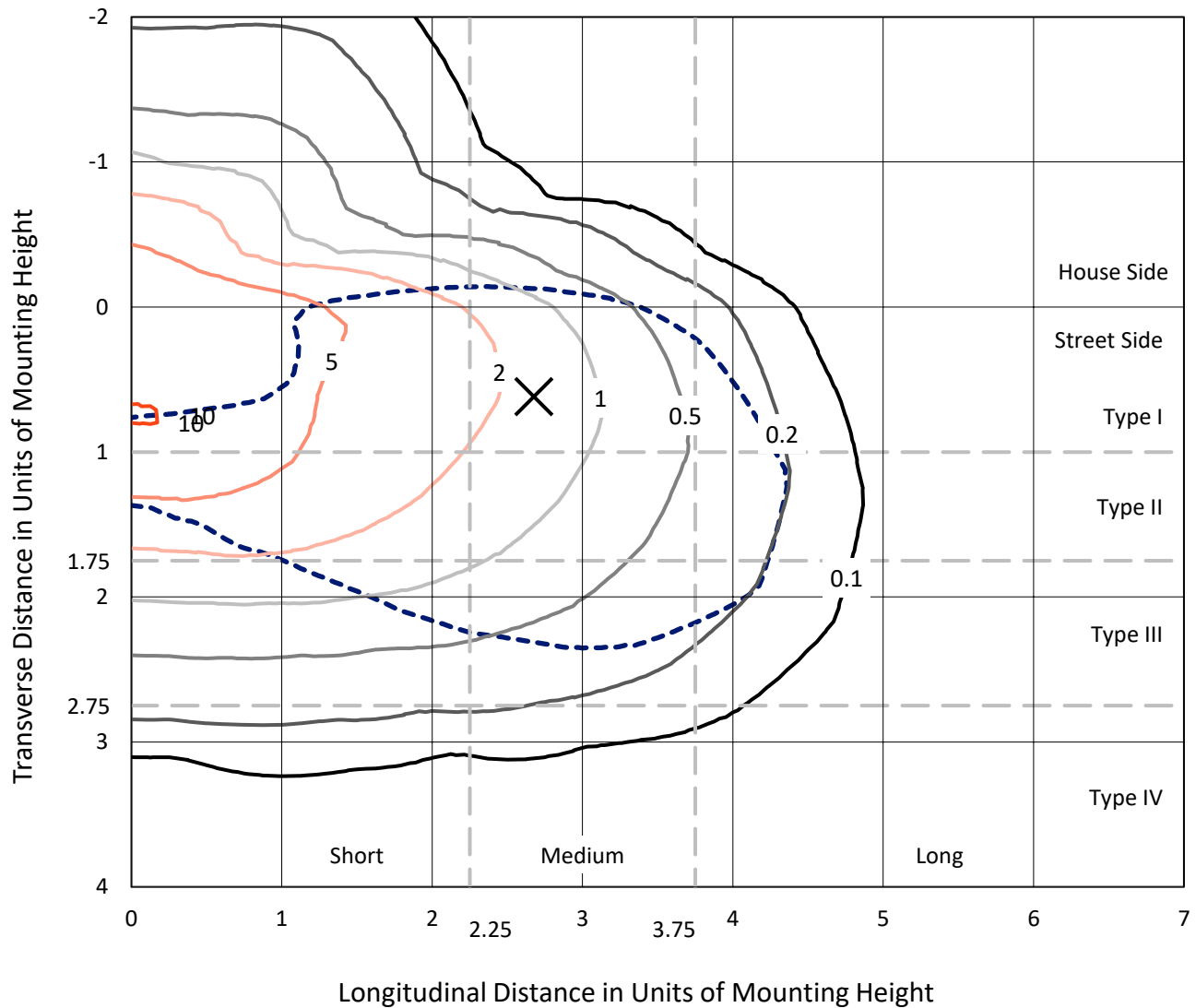


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

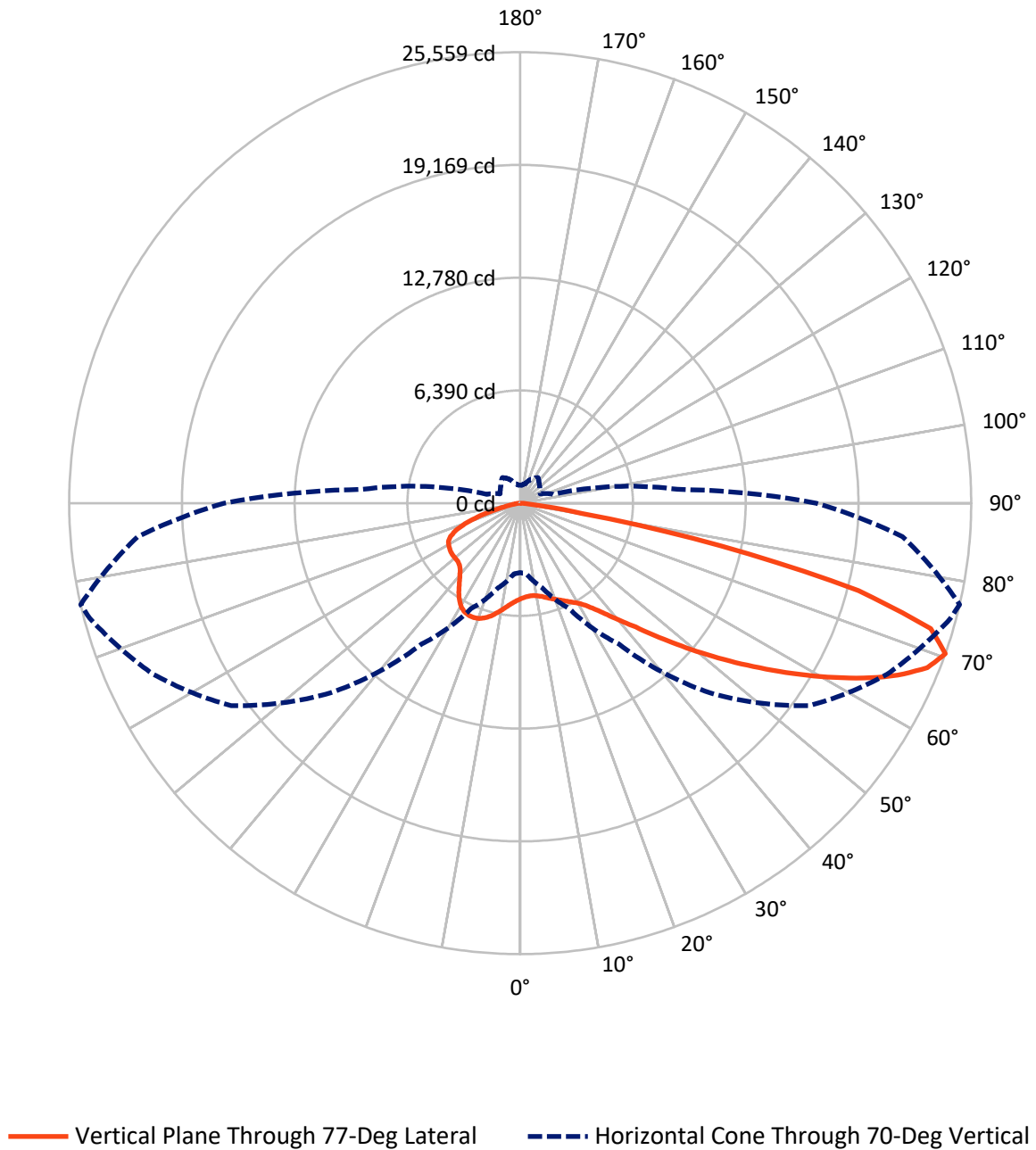


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8504.0	0.0	8504.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	30330.0	0.0	30330.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	38834.0	0.0	38834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.7	1.3
10°-20°	1491.3	3.8
20°-30°	2550.3	6.6
30°-40°	4101.1	10.6
40°-50°	6402.8	16.5
50°-60°	8552.7	22.0
60°-70°	9115.8	23.5
70°-80°	5611.6	14.5
80°-90°	491.7	1.3
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°	38834.0	100.0
0°-180°	38834.0	100.0

Coefficient of Utilization



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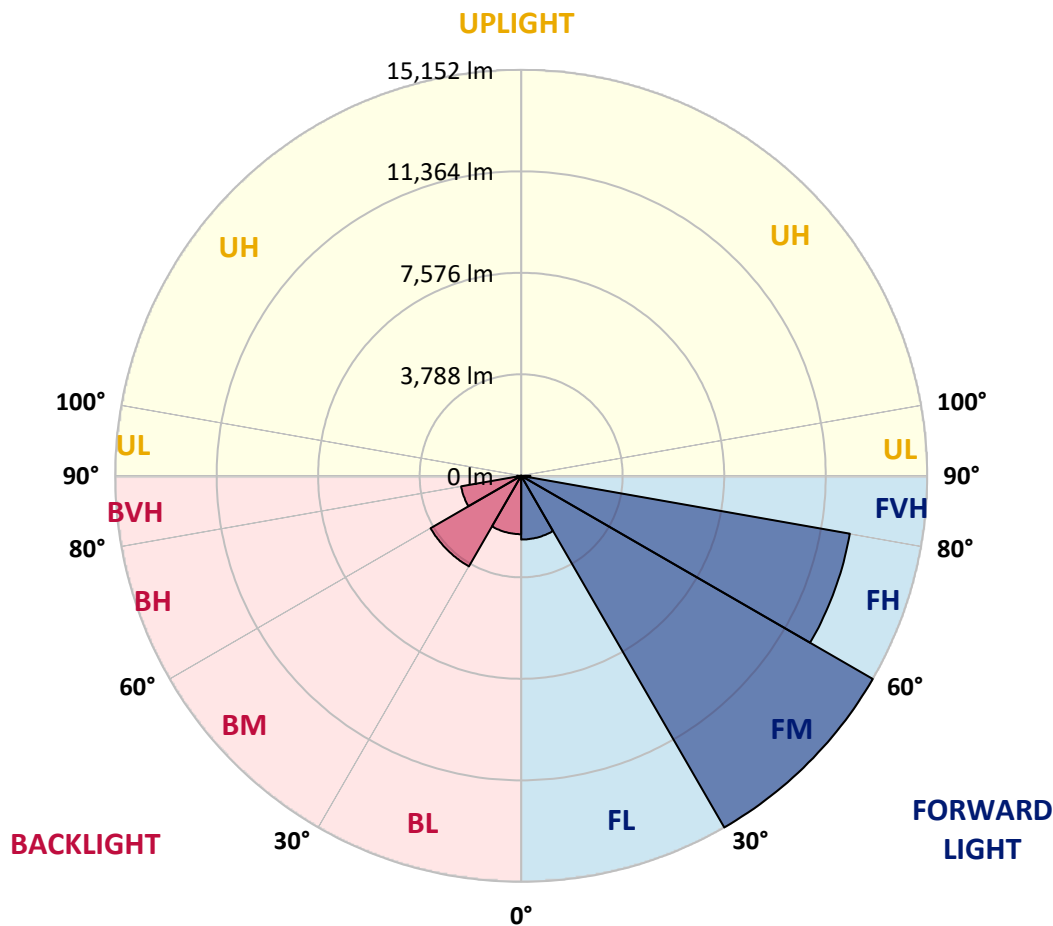
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2379.2	6.1			
FM	(30°-60°)	15152.2	39.0			
FH	(60°-80°)	12454.7	32.1			G5
FVH	(80°-90°)	343.8	0.9			G3/500
BL	(0°-30°)	2179.0	5.6	B3/2500		
BM	(30°-60°)	3904.4	10.1	B3/5000		
BH	(60°-80°)	2272.8	5.9	B3/2500		G3/2500
BVH	(80°-90°)	147.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7
2.5°	4994.1	4992.1	5017.9	5025.9	5073.6	5107.4	5171.1	5238.7	5326.2	5336.2	5389.9
5°	4705.7	4705.7	4735.5	4767.3	4829.0	4896.6	4994.1	5111.4	5262.6	5286.4	5419.7
7.5°	4461.0	4477.0	4502.8	4564.5	4636.1	4733.5	4882.7	5049.8	5248.6	5286.4	5501.2
10°	4264.1	4282.0	4313.9	4363.6	4471.0	4606.2	4801.1	5015.9	5282.5	5342.1	5620.6
12.5°	4202.5	4220.4	4238.3	4276.1	4375.5	4534.6	4767.3	5031.9	5364.0	5423.7	5783.7
15°	4345.7	4367.6	4353.6	4343.7	4395.4	4540.6	4783.2	5089.5	5465.4	5551.0	5984.5
17.5°	4675.8	4683.8	4652.0	4558.5	4550.5	4628.1	4858.8	5169.1	5592.7	5686.2	6187.4
20°	5208.9	5194.9	5129.3	4944.3	4838.9	4823.0	4988.1	5288.4	5724.0	5823.4	6406.2
22.5°	5932.8	5916.9	5785.6	5493.3	5258.6	5103.5	5175.1	5443.6	5871.2	5982.5	6619.0
25°	6835.8	6813.9	6621.0	6223.2	5859.2	5475.4	5429.6	5648.4	6052.1	6155.6	6841.7
27.5°	7889.9	7872.0	7663.1	7138.1	6613.0	5984.5	5745.9	5889.1	6241.1	6358.4	7092.3
30°	9023.5	9075.2	8705.3	8140.5	7476.2	6648.8	6171.5	6185.4	6485.7	6591.1	7396.6
32.5°	10356.1	10445.6	10000.1	9284.1	8377.1	7370.8	6708.5	6599.1	6841.7	6929.2	7780.5
35°	11676.7	11778.1	11408.2	10616.6	9572.5	8222.0	7269.3	7074.4	7315.1	7410.6	8289.6
37.5°	12818.3	12953.5	12762.6	12074.5	10851.3	9248.3	8001.2	7633.3	7897.8	8017.2	8973.8
40°	13719.3	13926.1	13912.2	13482.6	12358.9	10493.3	8930.1	8323.4	8621.8	8751.1	9803.2
42.5°	14451.2	14630.2	14785.3	14763.4	13932.1	11907.4	10021.9	9220.4	9447.2	9596.3	10736.0
45°	14956.3	15147.3	15481.4	15841.4	15445.6	13420.9	11272.9	10284.5	10491.3	10716.1	11847.7
47.5°	15407.8	15624.6	16058.2	16629.0	16730.4	14940.4	12643.3	11523.5	11712.5	11945.2	12963.5
50°	15447.6	15634.6	16306.8	17116.3	17643.3	16400.3	14115.1	12913.8	13090.8	13339.4	14158.8
52.5°	14487.0	14781.3	15954.8	17102.3	18063.0	17621.4	15576.9	14359.7	14558.6	14856.9	15395.9
55°	11245.1	11676.7	14922.5	16569.3	17913.8	18411.0	16967.1	15897.1	16151.7	16463.9	16640.9
57.5°	9685.8	9874.8	11845.7	15598.8	17233.6	18615.9	18140.5	17450.4	17860.1	18202.2	17957.6
60°	8705.3	8862.4	10027.9	14089.2	16338.6	18291.7	19047.5	18898.3	19606.3	20014.1	19304.0
62.5°	7655.2	7804.3	8864.4	11764.2	15193.0	17752.7	19620.3	20234.8	21396.3	21841.8	20572.9
65°	6613.0	6740.3	7756.6	9884.7	13737.2	17213.7	19916.6	21390.4	23053.1	23514.5	21627.0
67.5°	5451.5	5556.9	6517.5	8339.4	11967.1	16475.8	20063.8	22299.3	24495.0	24890.8	22148.1
70°	3934.0	4015.5	5008.0	6595.1	9745.5	15206.9	20004.1	22943.7	25242.8	25559.0	21754.3
72.5°	1859.6	1933.2	3098.7	4282.0	6883.5	12736.8	18796.9	22432.5	24483.1	24325.9	19343.8
75°	992.4	1056.1	1780.0	2348.9	3635.7	8731.2	15382.0	19323.9	20559.0	19795.3	14296.0
77.5°	672.2	722.0	1101.8	1410.1	1660.7	4144.8	9886.7	13379.2	12872.0	11611.1	7160.0
80°	533.0	584.7	902.9	954.7	803.5	1497.6	4085.2	6193.4	4449.1	3558.1	2036.6
82.5°	409.7	467.4	759.8	692.1	437.6	614.6	1189.3	1959.0	1139.6	867.1	493.2
85°	250.6	312.3	596.7	441.5	246.6	280.4	403.7	545.0	348.1	290.4	177.0
87.5°	127.3	179.0	302.3	161.1	111.4	65.6	107.4	107.4	91.5	79.6	45.7
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°	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7	5417.7
2.5°	5437.6	5477.4	5545.0	5608.6	5658.4	5706.1	5753.8	5779.7	5787.6	5819.5	5837.4
5°	5501.2	5574.8	5706.1	5829.4	5907.0	5954.7	5988.5	6008.4	6012.4	6022.3	6038.2
7.5°	5618.6	5735.9	5918.9	6042.2	6099.9	6095.9	6082.0	6032.3	6012.4	5994.5	5998.4
10°	5783.7	5938.8	6163.5	6249.0	6213.2	6117.8	5994.5	5849.3	5781.7	5716.0	5696.1
12.5°	5988.5	6185.4	6406.2	6402.2	6225.2	5980.5	5694.2	5471.4	5330.2	5228.8	5204.9
15°	6237.1	6463.8	6632.9	6497.7	6109.8	5670.3	5250.6	4960.3	4833.0	4721.6	4709.7
17.5°	6493.7	6736.3	6813.9	6467.8	5819.5	5210.9	4735.5	4506.8	4381.5	4321.8	4339.7
20°	6744.3	6984.9	6921.3	6296.8	5377.9	4689.8	4266.1	4140.8	4115.0	4128.9	4122.9
22.5°	7008.8	7223.6	6943.2	5966.6	4815.1	4156.8	3924.1	3928.0	3985.7	4027.5	4037.4
25°	7279.3	7424.5	6885.5	5489.3	4210.4	3764.9	3707.3	3770.9	3884.3	3965.8	3987.7
27.5°	7539.8	7603.5	6760.2	4898.6	3691.4	3484.5	3494.5	3625.7	3796.8	3910.1	3938.0
30°	7834.2	7762.6	6519.5	4234.3	3331.4	3243.9	3327.4	3480.5	3651.6	3753.0	3776.9
32.5°	8166.3	7899.8	6137.7	3619.8	3076.8	3050.9	3188.2	3287.6	3363.2	3393.0	3408.9
35°	8580.0	8092.7	5648.4	3188.2	2848.1	2909.7	3041.0	2991.3	2961.4	2945.5	2961.4
37.5°	9117.0	8353.3	5075.6	2907.7	2663.1	2808.3	2862.0	2706.9	2589.5	2531.8	2545.8
40°	9763.4	8735.1	4524.7	2690.9	2545.8	2720.8	2627.3	2440.4	2291.2	2209.6	2215.6
42.5°	10481.4	9134.9	4061.3	2527.9	2480.1	2649.2	2454.3	2231.5	1990.9	1965.0	1990.9
45°	11235.2	9546.6	3745.1	2402.6	2448.3	2587.5	2354.8	1994.8	1823.8	1929.2	1984.9
47.5°	11988.9	9924.5	3554.1	2309.1	2432.4	2517.9	2267.3	1863.6	1742.3	1895.4	1967.0
50°	12828.2	10262.6	3468.6	2241.5	2414.5	2490.1	2136.1	1829.8	1656.7	1758.2	1833.7
52.5°	13661.6	10525.1	3405.0	2173.8	2388.6	2468.2	2072.4	1790.0	1553.3	1559.3	1601.0
55°	14492.9	10696.2	3335.3	2084.3	2331.0	2420.5	2066.4	1746.2	1475.7	1447.9	1467.8
57.5°	15380.0	10793.6	3249.8	1984.9	2231.5	2299.1	2060.5	1712.4	1451.9	1406.1	1412.1
60°	16282.9	10936.8	3138.4	1863.6	2098.3	2154.0	2046.6	1700.5	1438.0	1360.4	1366.4
62.5°	17092.4	10986.5	3005.2	1748.2	1927.2	2010.8	2016.7	1690.5	1400.2	1266.9	1266.9
65°	17623.4	10771.8	2772.5	1617.0	1742.3	1863.6	1959.0	1656.7	1332.5	1199.3	1199.3
67.5°	17601.5	10159.2	2408.5	1447.9	1563.3	1700.5	1875.5	1599.1	1251.0	1115.8	1121.7
70°	16782.1	8949.9	1947.1	1251.0	1366.4	1525.5	1768.1	1513.5	1153.5	1024.3	1036.2
72.5°	14393.5	7004.8	1414.1	1020.3	1137.6	1344.5	1628.9	1410.1	1054.1	942.7	936.8
75°	10282.5	4433.2	958.6	783.6	885.0	1139.6	1455.9	1288.8	962.6	946.7	893.0
77.5°	5252.6	2118.2	634.5	572.8	616.6	899.0	1223.2	1151.6	976.5	781.6	696.1
80°	1708.4	781.6	399.8	389.8	409.7	598.7	946.7	944.7	739.9	531.0	469.4
82.5°	545.0	336.1	260.5	250.6	240.7	375.9	660.3	747.8	499.2	336.1	334.1
85°	216.8	200.9	153.1	141.2	101.4	177.0	346.1	497.2	371.9	242.6	248.6
87.5°	79.6	79.6	41.8	29.8	21.9	59.7	93.5	149.2	212.8	125.3	123.3
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)