

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: P942295

Luminaire Tested: **GALN-SB6B-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31383 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 220.4
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

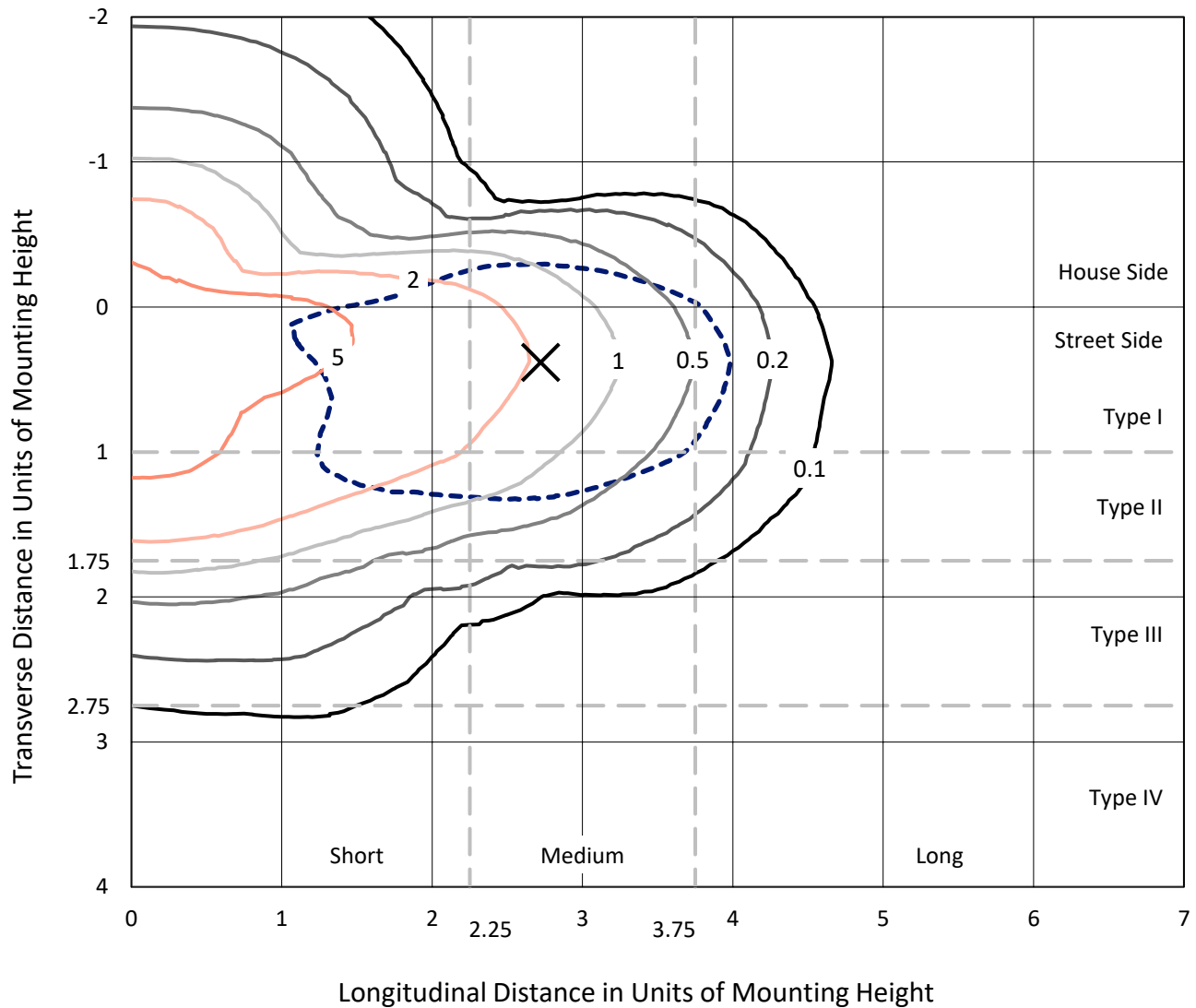


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

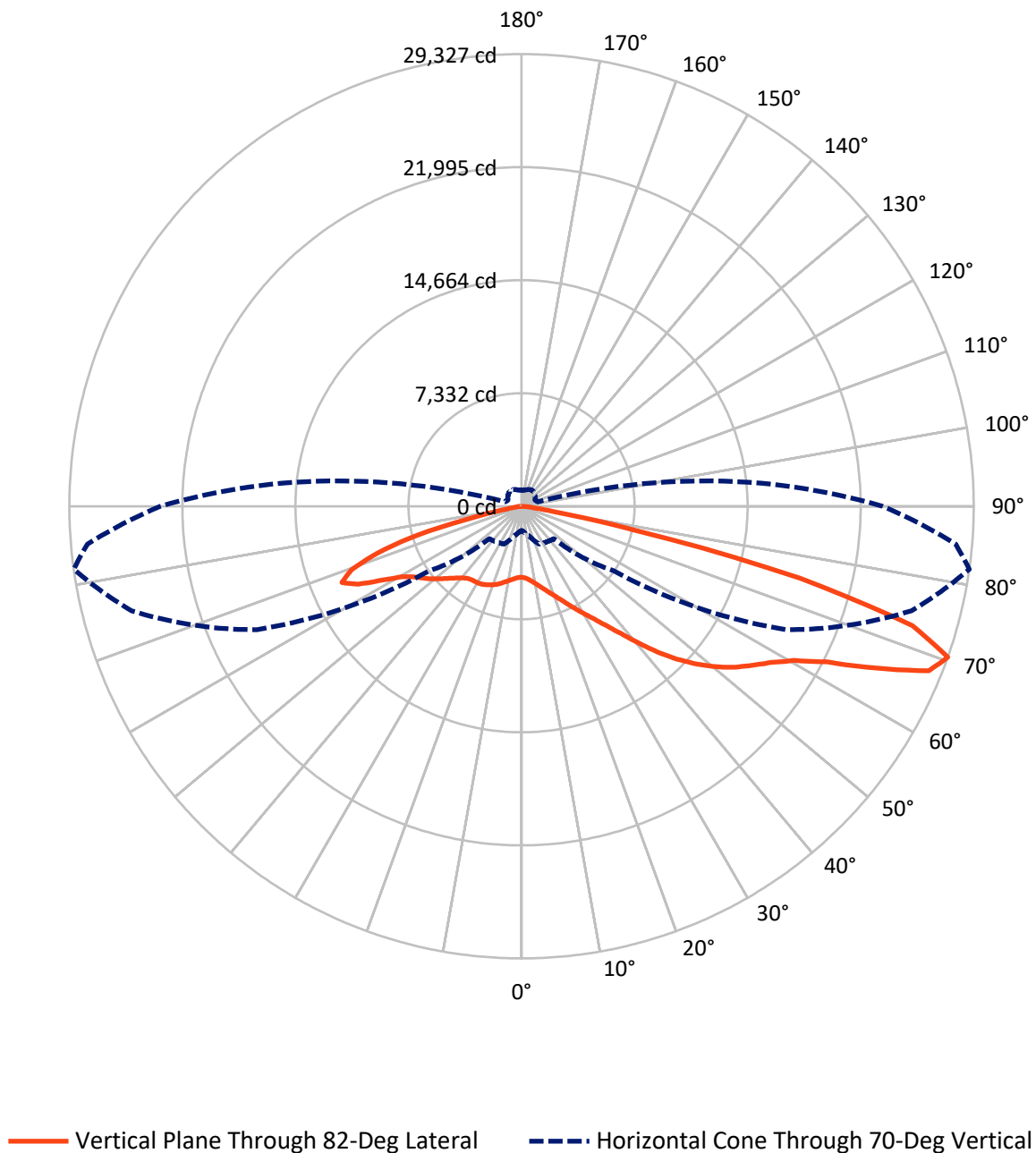


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7736.7	0.0	7736.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	23646.3	0.0	23646.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	31383.0	0.0	31383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.4	1.4
10°-20°	1248.1	4.0
20°-30°	2088.0	6.7
30°-40°	3262.0	10.4
40°-50°	5195.1	16.6
50°-60°	7229.7	23.0
60°-70°	7562.6	24.1
70°-80°	3952.6	12.6
80°-90°	410.4	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°	31383.0	100.0
0°-180°	31383.0	100.0

Coefficient of Utilization



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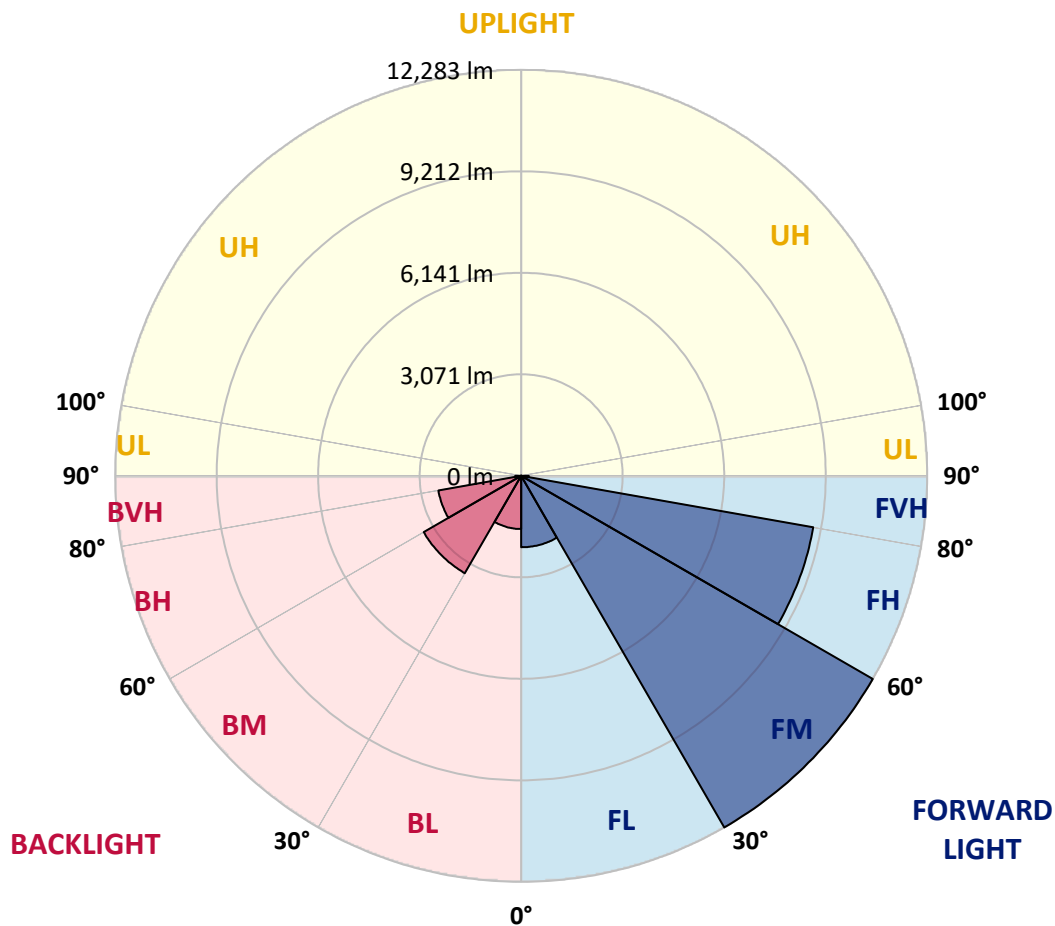
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2161.1	6.9			
FM	(30°-60°)	12283.0	39.1			
FH	(60°-80°)	8972.5	28.6			G4/12000
FVH	(80°-90°)	229.8	0.7			G3/500
BL	(0°-30°)	1609.5	5.1	B3/2500		
BM	(30°-60°)	3403.8	10.8	B3/5000		
BH	(60°-80°)	2542.7	8.1	B4/5000		G4/5000
BVH	(80°-90°)	180.7	0.6			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1
2.5°	4711.0	4737.7	4729.4	4721.0	4721.0	4709.4	4707.7	4691.1	4677.7	4656.1	4651.1
5°	4771.0	4799.3	4796.0	4802.6	4824.3	4829.3	4834.3	4824.3	4797.6	4771.0	4759.3
7.5°	4717.7	4749.3	4759.3	4799.3	4865.9	4925.9	4970.8	4989.1	4964.2	4925.9	4907.5
10°	4537.9	4572.8	4607.8	4702.7	4821.0	4962.5	5082.4	5154.0	5149.0	5112.4	5080.7
12.5°	4173.2	4209.8	4284.7	4469.6	4686.1	4935.9	5159.0	5308.9	5360.5	5333.9	5278.9
15°	3881.7	3913.4	3970.0	4159.8	4441.3	4821.0	5187.3	5478.7	5610.3	5595.3	5528.7
17.5°	3873.4	3886.7	3921.7	4011.6	4228.1	4641.1	5157.3	5645.3	5896.7	5895.1	5811.8
20°	4020.0	4025.0	4044.9	4063.3	4186.5	4504.6	5080.7	5783.5	6218.1	6218.1	6128.2
22.5°	4223.1	4219.8	4239.8	4223.1	4283.1	4492.9	5032.4	5905.0	6576.2	6602.8	6489.6
25°	4527.9	4511.2	4506.2	4467.9	4479.6	4601.1	5085.7	6043.3	7000.8	7055.7	6914.2
27.5°	4934.2	4907.5	4889.2	4801.0	4771.0	4824.3	5248.9	6209.8	7473.7	7568.7	7388.8
30°	5463.7	5415.5	5388.8	5235.6	5127.4	5135.7	5495.4	6431.3	7968.3	8121.5	7893.4
32.5°	6186.5	6111.5	6039.9	5788.5	5590.3	5525.4	5813.5	6737.7	8504.5	8749.3	8456.2
35°	6995.8	6935.8	6859.2	6471.2	6166.5	6016.6	6243.1	7165.7	9132.3	9520.3	9139.0
37.5°	7775.1	7723.5	7760.2	7237.3	6844.3	6626.1	6806.0	7740.2	9906.7	10479.5	9994.9
40°	8581.1	8541.2	8546.2	8046.6	7588.6	7343.8	7488.7	8461.2	10794.3	11620.3	11024.1
42.5°	9457.1	9427.1	9327.2	8884.2	8369.6	8141.5	8274.7	9293.9	11746.8	12919.2	12153.1
45°	10437.9	10419.6	10326.3	9818.4	9228.9	8972.5	9152.3	10213.1	12704.3	14141.5	13287.2
47.5°	11285.5	11300.5	11288.9	10860.9	10249.7	9873.4	10088.2	11172.3	13595.3	15290.5	14374.6
50°	11693.5	11771.8	11886.7	11753.5	11373.8	10990.8	11032.4	12098.2	14444.5	16367.9	15417.1
52.5°	11480.4	11628.6	11941.6	12154.8	12301.3	12221.4	12109.8	13017.4	15243.9	17340.5	16402.9
55°	10686.0	10894.2	11413.8	11928.3	12676.0	13257.2	13403.8	14036.6	16023.2	18196.4	17335.5
57.5°	9238.9	9577.0	10043.2	11084.0	12343.0	13758.5	14912.5	15450.4	16849.2	19110.6	18311.3
60°	6757.7	7210.6	7790.1	9338.8	11177.3	13490.3	16196.4	17621.9	18023.2	20294.6	19581.9
62.5°	4324.7	4604.5	5137.4	6596.1	8709.4	12116.5	16589.4	20336.3	20013.2	22236.3	21487.0
65°	2960.8	3140.7	3628.6	4447.9	5630.3	9019.1	15537.0	22371.2	23173.9	25313.8	24744.2
67.5°	2151.5	2288.1	2704.4	3422.1	3668.6	5337.2	12056.6	22278.0	26246.3	28484.4	27598.5
70°	1568.7	1665.3	2015.0	2704.4	2822.6	2969.2	7303.9	18937.4	26179.7	29327.1	28266.3
72.5°	1162.4	1229.0	1463.8	2098.2	2284.8	2005.0	3615.3	13763.5	22496.1	26526.1	25675.1
75°	841.0	890.9	1064.1	1605.3	1828.5	1527.1	1803.5	8043.3	15691.8	18659.3	18809.2
77.5°	642.8	681.1	794.3	1175.7	1463.8	1145.7	1119.1	3700.2	7440.4	7477.1	7896.7
80°	516.2	541.2	602.8	827.6	1122.4	857.6	729.4	1493.7	2351.4	1990.0	2088.2
82.5°	379.7	421.3	509.6	581.2	802.7	591.2	444.6	754.4	894.2	769.4	776.0
85°	216.5	244.8	308.1	416.3	512.9	361.4	254.8	334.7	416.3	341.4	304.7
87.5°	76.6	99.9	108.2	163.2	223.1	149.9	98.3	96.6	136.6	101.6	84.9
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°	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1	4601.1
2.5°	4634.4	4626.1	4592.8	4547.9	4501.2	4456.3	4441.3	4409.6	4388.0	4376.3	4389.7
5°	4727.7	4701.1	4622.8	4522.9	4418.0	4304.7	4224.8	4151.5	4098.2	4048.3	4068.3
7.5°	4860.9	4814.3	4679.4	4504.6	4318.0	4129.9	3990.0	3883.4	3811.8	3765.2	3775.2
10°	5015.8	4944.2	4737.7	4476.2	4188.2	3918.4	3753.5	3661.9	3617.0	3592.0	3598.6
12.5°	5194.0	5092.4	4797.6	4411.3	3990.0	3681.9	3568.7	3542.0	3543.7	3545.4	3548.7
15°	5413.8	5272.2	4845.9	4269.8	3731.9	3500.4	3480.4	3523.7	3568.7	3590.3	3588.7
17.5°	5661.9	5462.1	4854.3	4036.6	3478.7	3383.8	3447.1	3540.4	3608.6	3638.6	3645.3
20°	5928.4	5655.3	4794.3	3706.9	3270.6	3288.9	3402.1	3522.0	3597.0	3635.3	3645.3
22.5°	6233.1	5861.7	4651.1	3360.5	3100.7	3185.7	3318.9	3435.5	3513.7	3552.0	3562.0
25°	6581.1	6093.2	4426.3	3069.1	2954.2	3069.1	3202.3	3298.9	3362.2	3397.2	3407.1
27.5°	6967.5	6334.7	4126.5	2837.6	2826.0	2949.2	3059.1	3134.0	3167.3	3194.0	3204.0
30°	7355.5	6554.5	3763.5	2662.8	2714.4	2831.0	2909.2	2942.5	2952.5	2957.5	2969.2
32.5°	7775.1	6744.3	3382.2	2517.9	2607.8	2716.1	2762.7	2777.7	2731.0	2699.4	2709.4
35°	8283.1	6947.5	3009.1	2403.0	2502.9	2596.2	2611.1	2597.8	2542.9	2477.9	2481.3
37.5°	8910.9	7200.6	2711.1	2321.4	2404.6	2466.3	2447.9	2444.6	2449.6	2373.0	2378.0
40°	9680.2	7530.3	2492.9	2258.1	2324.7	2338.0	2286.4	2314.7	2339.7	2223.1	2226.5
42.5°	10534.5	7928.3	2354.7	2214.8	2258.1	2226.5	2146.5	2178.2	2174.8	2021.6	2020.0
45°	11405.4	8361.3	2306.4	2183.2	2196.5	2133.2	2045.0	2053.3	1983.3	1845.1	1850.1
47.5°	12271.4	8825.9	2336.4	2156.5	2119.9	2048.3	1980.0	1943.4	1840.1	1736.9	1736.9
50°	13120.7	9313.9	2446.3	2103.2	2015.0	1973.3	1923.4	1858.4	1748.5	1660.3	1653.6
52.5°	13908.3	9805.1	2569.5	2015.0	1883.4	1908.4	1876.8	1801.8	1693.6	1603.7	1605.3
55°	14654.4	10296.4	2617.8	1893.4	1760.2	1851.8	1833.5	1695.2	1565.4	1492.1	1485.4
57.5°	15467.0	10887.5	2564.5	1738.5	1660.3	1786.8	1716.9	1563.7	1488.8	1433.8	1428.8
60°	16592.7	11815.1	2449.6	1547.0	1565.4	1690.2	1570.3	1507.1	1425.5	1363.9	1360.5
62.5°	18462.8	13545.3	2264.8	1357.2	1453.8	1547.0	1500.4	1437.1	1353.9	1293.9	1293.9
65°	21227.2	15950.0	1916.7	1209.0	1328.9	1407.2	1425.5	1362.2	1275.6	1212.3	1215.6
67.5°	23558.6	17458.7	1450.4	1085.8	1200.7	1293.9	1345.5	1283.9	1192.3	1130.7	1132.4
70°	23430.3	16362.9	1107.4	964.2	1087.4	1182.3	1249.0	1200.7	1102.4	1044.1	1049.1
72.5°	20810.9	13688.5	895.9	841.0	972.5	1065.8	1145.7	1109.1	1009.2	952.5	952.5
75°	15288.8	9716.8	716.1	716.1	829.3	944.2	1032.5	1009.2	917.6	877.6	865.9
77.5°	6444.6	4076.6	561.2	594.5	689.4	811.0	920.9	929.2	849.3	899.2	816.0
80°	1713.6	1124.1	428.0	467.9	541.2	669.4	801.0	797.7	711.1	664.4	617.8
82.5°	652.8	443.0	304.7	329.7	391.3	512.9	634.5	654.5	567.9	491.3	491.3
85°	251.5	189.8	188.2	198.2	228.1	339.7	479.6	496.3	428.0	363.0	374.7
87.5°	64.9	56.6	69.9	66.6	104.9	181.5	274.8	284.8	261.4	151.5	216.5
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)