

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: P942467

Luminaire Tested: **GALN-SB6C-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942467
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-SB6C-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42152 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 300.9
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



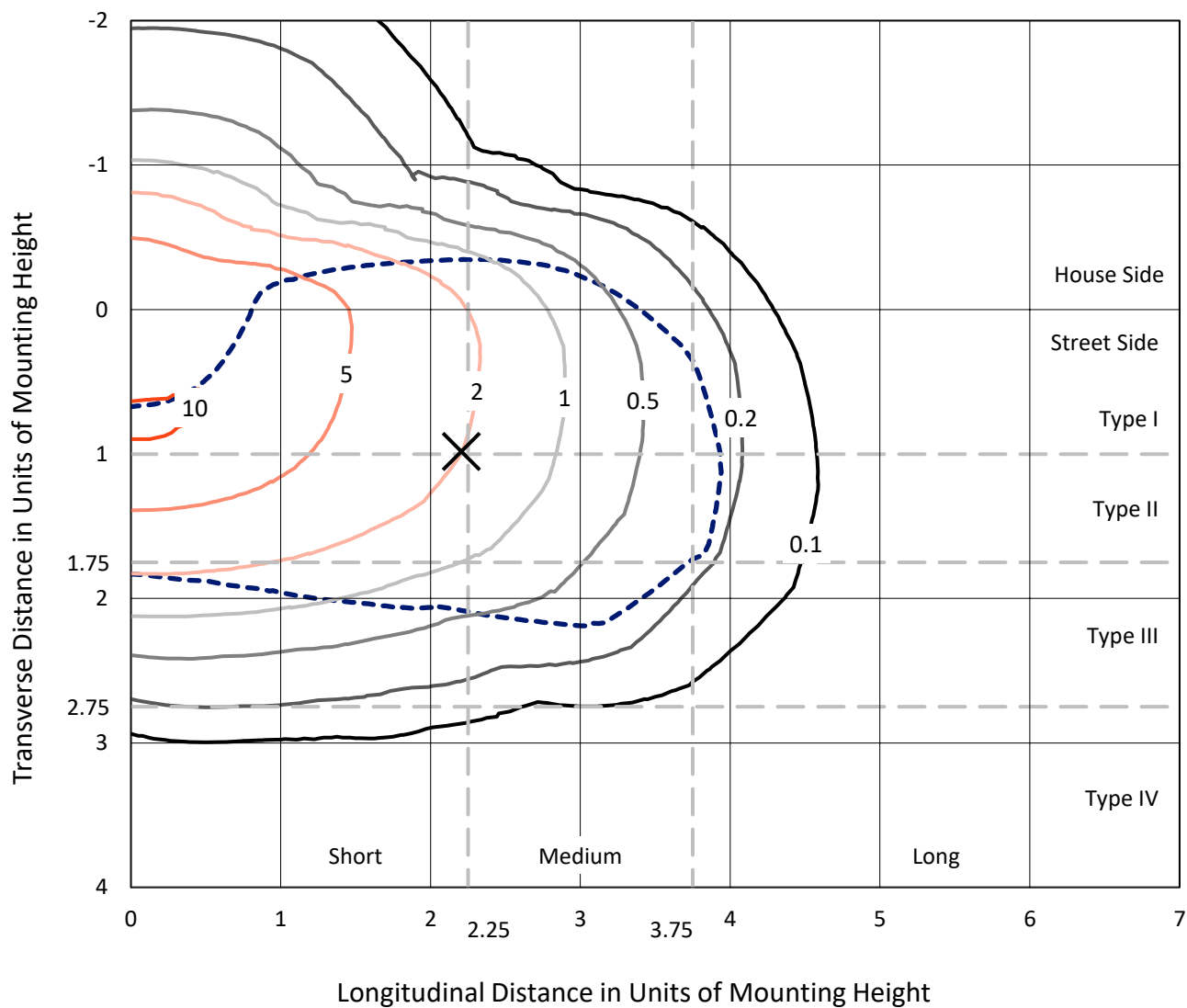
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

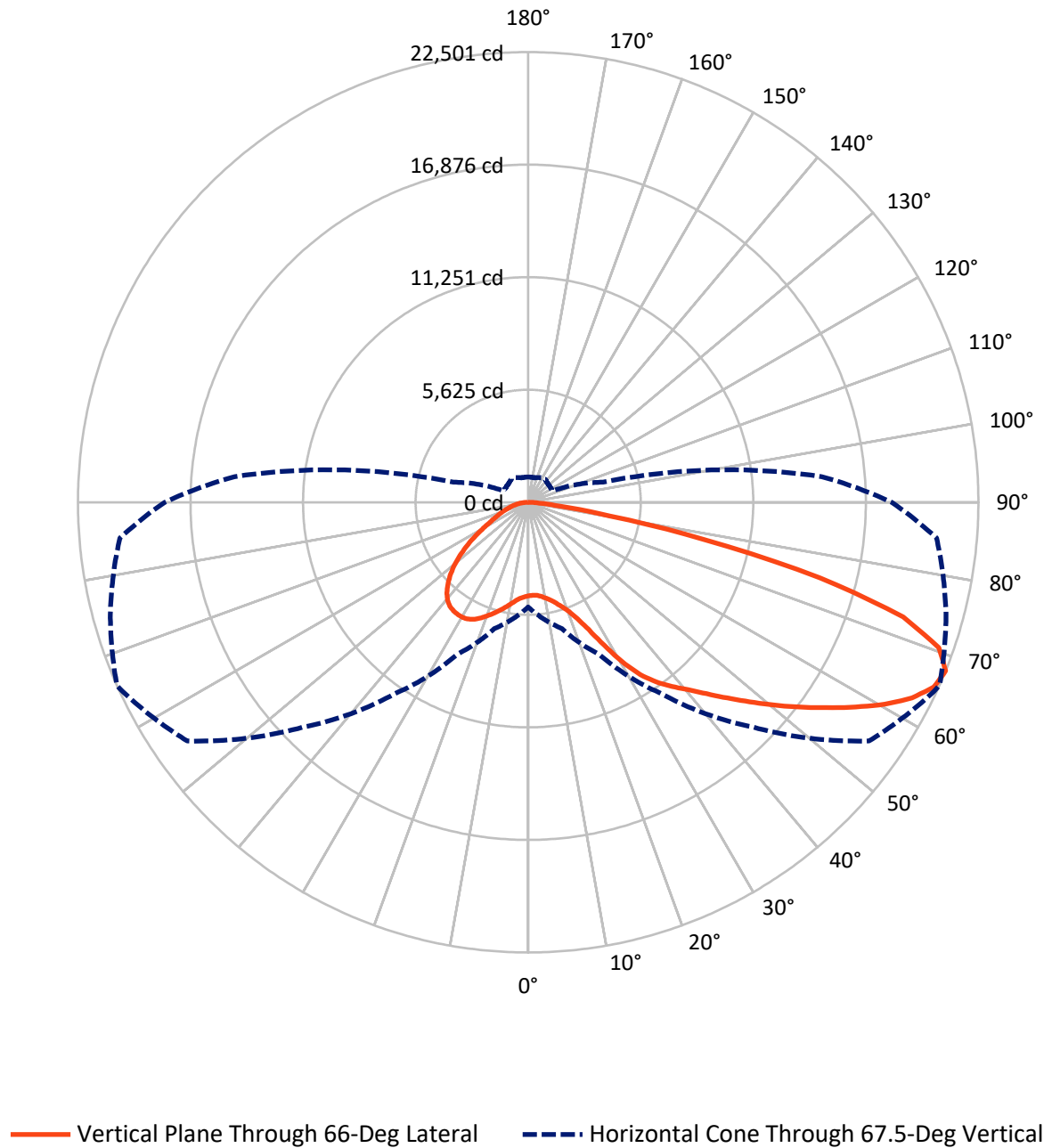


Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10481.0	0.0	10481.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	31671.0	0.0	31671.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	42152.0	0.0	42152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.5	1.1
10°-20°	1531.4	3.6
20°-30°	2951.8	7.0
30°-40°	5175.5	12.3
40°-50°	7694.3	18.3
50°-60°	9753.3	23.1
60°-70°	9543.4	22.6
70°-80°	4552.3	10.8
80°-90°	486.5	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°	42152.0	100.0
0°-180°	42152.0	100.0

Coefficient of Utilization



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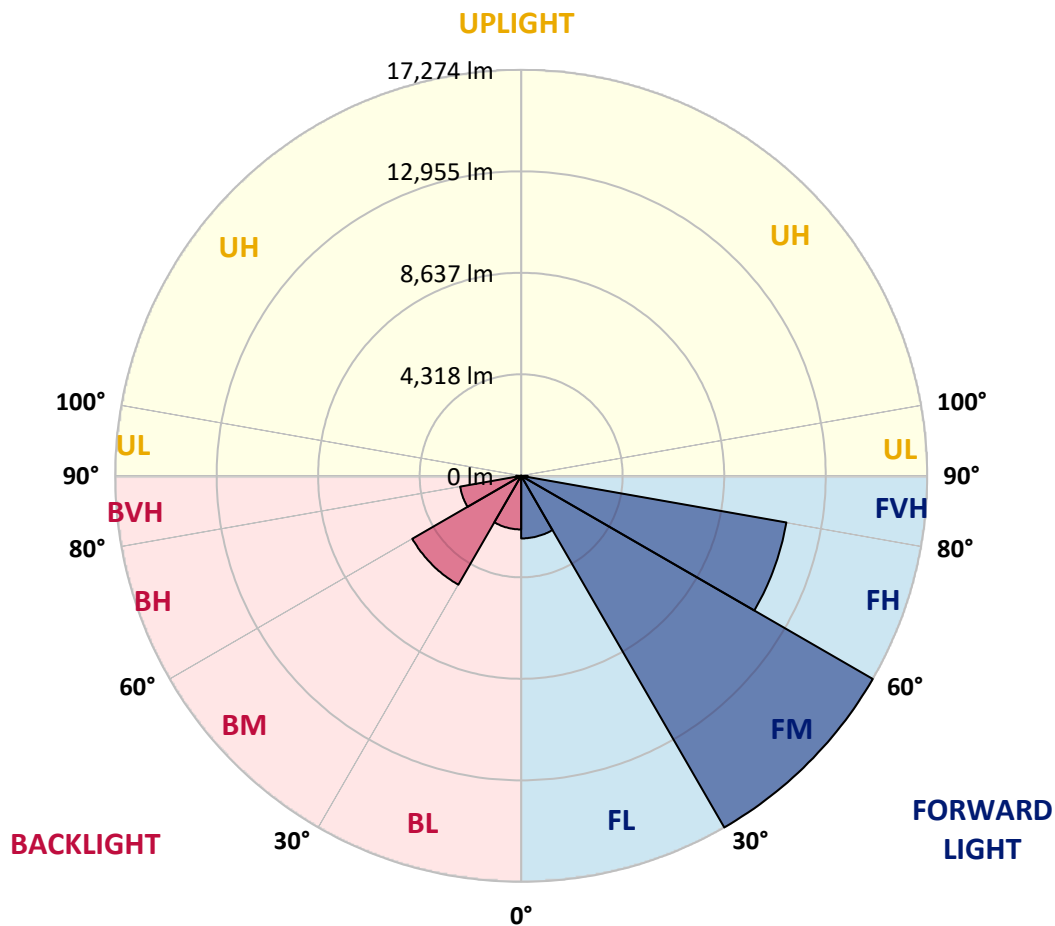
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2663.6	6.3			
FM	(30°-60°)	17273.5	41.0			
FH	(60°-80°)	11458.1	27.2			G4/12000
FVH	(80°-90°)	275.8	0.7			G3/500
BL	(0°-30°)	2283.1	5.4	B3/2500		
BM	(30°-60°)	5349.6	12.7	B4/8500		
BH	(60°-80°)	2637.6	6.3	B4/5000		G4/5000
BVH	(80°-90°)	210.7	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2
2.5°	4626.5	4653.1	4646.4	4635.3	4633.1	4637.6	4644.2	4650.9	4648.6	4659.7	4677.4
5°	4613.2	4639.8	4637.6	4637.6	4646.4	4664.1	4675.2	4686.3	4675.2	4688.5	4712.9
7.5°	4622.1	4642.0	4650.9	4659.7	4681.9	4715.1	4741.7	4766.0	4752.7	4768.2	4799.2
10°	4735.0	4750.5	4759.4	4759.4	4774.9	4812.5	4839.1	4883.4	4872.3	4896.7	4936.5
12.5°	4941.0	4956.5	4956.5	4947.6	4958.7	4983.1	4991.9	5040.6	5020.7	5060.6	5100.4
15°	5193.5	5224.5	5200.1	5184.6	5189.0	5213.4	5211.2	5248.8	5228.9	5262.1	5297.5
17.5°	5472.5	5512.4	5472.5	5470.3	5461.4	5488.0	5490.2	5523.4	5488.0	5512.4	5536.7
20°	5802.5	5857.9	5824.6	5835.7	5815.8	5826.9	5837.9	5886.7	5831.3	5849.0	5842.4
22.5°	6267.6	6334.0	6298.6	6340.7	6327.4	6318.5	6316.3	6402.7	6316.3	6322.9	6258.7
25°	6945.3	7025.0	6963.0	7020.6	7020.6	7049.4	7082.6	7193.3	7049.4	7007.3	6841.2
27.5°	7946.3	8026.0	7904.2	7939.7	7928.6	7999.5	7964.0	8238.7	8083.6	8015.0	7680.6
30°	9151.1	9292.8	9062.5	9053.7	9042.6	9155.5	9206.5	9388.1	9230.8	9162.2	8759.1
32.5°	10453.3	10601.7	10327.1	10247.4	10205.3	10274.0	10231.9	10378.0	10269.5	10163.2	9664.9
35°	11830.9	11977.1	11715.7	11560.7	11392.4	11248.4	11097.8	11135.5	11033.6	10871.9	10355.9
37.5°	13133.1	13401.1	13124.3	12958.2	12648.1	12366.8	11946.0	11771.1	11675.9	11527.5	11007.0
40°	14459.7	14612.5	14402.1	14260.4	13923.8	13483.0	12809.8	12439.9	12311.5	12167.5	11726.8
42.5°	15436.4	15582.6	15469.6	15372.2	15108.6	14597.0	13726.7	13263.8	13077.8	12916.1	12541.8
45°	16211.5	16320.1	16249.2	16284.6	16171.7	15675.6	14676.8	14147.4	13954.8	13757.7	13463.1
47.5°	16523.8	16639.0	16751.9	16962.3	17155.0	16789.6	15697.7	15104.2	14900.4	14698.9	14408.8
50°	16488.4	16605.8	16933.5	17380.9	17978.9	17857.1	16774.1	16123.0	15934.7	15704.4	15436.4
52.5°	16204.9	16337.8	16758.6	17502.7	18455.0	18656.6	17870.3	17174.9	16997.8	16723.1	16455.2
55°	15460.8	15540.5	16171.7	17225.9	18568.0	19214.7	18944.5	18295.6	18118.4	17735.2	17442.9
57.5°	14081.0	14196.2	15115.3	16479.5	18284.5	19593.4	19887.9	19473.8	19303.3	18751.8	18446.2
60°	12280.5	12464.3	13516.3	15226.0	17562.5	19591.2	20745.0	20632.1	20490.3	19752.8	19433.9
62.5°	10242.9	10455.6	11467.7	13454.3	16300.1	19035.3	21281.0	21602.1	21529.0	20676.4	20268.9
65°	7866.6	8012.8	9020.4	11162.0	14335.7	17841.6	21343.0	22264.3	22277.6	21378.4	20705.2
67.5°	5237.7	5658.5	6533.3	8376.0	11704.6	15890.4	20798.2	22372.8	22501.3	21619.8	20485.9
70°	2555.8	3109.4	3966.5	5443.7	8376.0	12898.4	19374.1	21482.5	21768.2	20915.5	19179.2
72.5°	1060.8	1240.2	1707.5	2686.4	4808.1	8703.7	16512.7	19068.5	19597.8	18532.5	16125.2
75°	715.3	775.1	976.7	1377.5	2190.3	4292.1	11908.4	14218.3	15071.0	13996.9	11441.1
77.5°	551.5	589.1	710.9	963.4	1302.2	1623.4	6373.9	8568.6	9009.4	8340.5	5953.1
80°	434.1	462.9	531.5	702.1	923.5	868.2	2172.6	3882.4	4137.0	3470.4	1913.5
82.5°	376.5	387.6	380.9	476.2	613.5	507.2	713.1	1432.9	1581.3	1147.2	624.5
85°	272.4	303.4	316.7	294.6	325.6	256.9	292.3	507.2	558.1	498.3	352.1
87.5°	110.7	163.9	201.5	190.5	119.6	73.1	90.8	148.4	170.5	186.0	115.2
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°	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2
2.5°	4679.6	4695.1	4706.2	4719.5	4728.4	4741.7	4768.2	4783.7	4785.9	4797.0	4794.8
5°	4721.7	4743.9	4768.2	4803.7	4843.5	4876.8	4927.7	4963.1	4976.4	4987.5	4985.3
7.5°	4812.5	4843.5	4887.8	4949.8	5007.4	5051.7	5113.7	5155.8	5197.9	5213.4	5215.6
10°	4947.6	4991.9	5056.1	5140.3	5202.3	5259.9	5324.1	5359.6	5401.6	5419.4	5428.2
12.5°	5115.9	5162.4	5246.6	5364.0	5421.6	5461.4	5483.6	5474.7	5483.6	5499.1	5503.5
15°	5308.6	5359.6	5454.8	5581.0	5620.9	5585.5	5536.7	5492.4	5485.8	5490.2	5505.7
17.5°	5536.7	5574.4	5685.1	5791.4	5762.6	5616.5	5510.2	5439.3	5403.8	5392.8	5408.3
20°	5855.6	5855.6	5946.4	6012.9	5820.2	5572.2	5406.1	5290.9	5217.8	5186.8	5180.2
22.5°	6243.2	6207.8	6265.4	6218.9	5809.1	5448.1	5217.8	5018.5	4907.8	4863.5	4856.8
25°	6734.9	6692.8	6677.3	6389.4	5729.4	5251.0	4876.8	4635.3	4537.9	4513.5	4518.0
27.5°	7476.8	7370.5	7169.0	6482.4	5583.2	4941.0	4478.1	4254.4	4199.1	4201.3	4207.9
30°	8464.6	8251.9	7758.1	6497.9	5344.1	4502.5	4070.6	3911.1	3884.6	3895.6	3933.3
32.5°	9379.2	9177.7	8360.5	6427.0	4976.4	4072.8	3705.2	3598.9	3559.0	3572.3	3590.0
35°	10096.8	10041.4	8918.6	6327.4	4524.6	3669.7	3377.4	3286.6	3209.1	3191.4	3204.7
37.5°	10774.5	10752.3	9337.1	6187.8	4077.2	3384.0	3113.9	2994.3	2881.3	2819.3	2821.5
40°	11518.6	11496.5	9611.8	5973.0	3680.8	3136.0	2876.9	2719.6	2580.1	2467.2	2478.2
42.5°	12355.8	12225.1	9742.4	5665.2	3344.2	2925.6	2684.2	2471.6	2287.8	2183.7	2190.3
45°	13270.4	12975.9	9740.2	5273.2	3060.7	2732.9	2478.2	2177.0	2006.5	1909.1	1904.6
47.5°	14240.5	13693.4	9620.6	4839.1	2786.1	2520.3	2159.3	1929.0	1816.0	1756.3	1743.0
50°	15241.5	14364.5	9416.9	4340.8	2504.8	2278.9	1960.0	1802.8	1716.4	1661.0	1641.1
52.5°	16182.8	14973.5	9171.0	3776.0	2219.1	2044.2	1871.4	1749.6	1658.8	1596.8	1570.2
55°	17057.6	15498.4	8823.3	3198.0	1986.6	1886.9	1829.3	1727.5	1623.4	1550.3	1521.5
57.5°	17834.9	15839.5	8223.1	2655.4	1820.5	1778.4	1785.0	1689.8	1570.2	1508.2	1468.3
60°	18481.6	16089.7	7335.1	2152.7	1685.4	1672.1	1716.4	1618.9	1479.4	1408.5	1377.5
62.5°	18869.2	16085.3	6245.4	1762.9	1570.2	1574.6	1625.6	1530.4	1388.6	1322.2	1302.2
65°	18836.0	15691.1	5049.5	1508.2	1459.5	1463.9	1530.4	1432.9	1313.3	1273.4	1271.2
67.5°	18169.3	14729.9	3873.5	1342.1	1337.7	1357.6	1435.1	1366.5	1266.8	1262.4	1269.0
70°	16364.4	12734.5	2790.5	1209.2	1211.4	1240.2	1342.1	1324.4	1242.4	1251.3	1249.1
72.5°	13122.0	9709.2	1873.6	1069.7	1071.9	1118.4	1253.5	1291.2	1218.1	1335.5	1353.2
75°	8739.2	6055.0	1204.8	921.3	923.5	983.3	1176.0	1226.9	1151.6	1331.0	1342.1
77.5°	4199.1	2721.9	872.6	775.1	775.1	830.5	1016.5	1098.5	981.1	1034.3	947.9
80°	1450.6	1023.2	686.6	624.5	611.3	648.9	857.1	952.3	846.0	779.6	730.8
82.5°	571.4	531.5	551.5	485.0	440.7	465.1	666.6	786.2	622.3	562.5	560.3
85°	327.8	345.5	389.8	321.1	254.7	285.7	489.4	564.7	469.5	414.1	423.0
87.5°	88.6	121.8	179.4	166.1	115.2	121.8	232.5	312.3	270.2	208.2	214.8
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)