

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: P955579

Luminaire Tested: **GALN-SB8C-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955579
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-SB8C-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57664 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 399.8
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



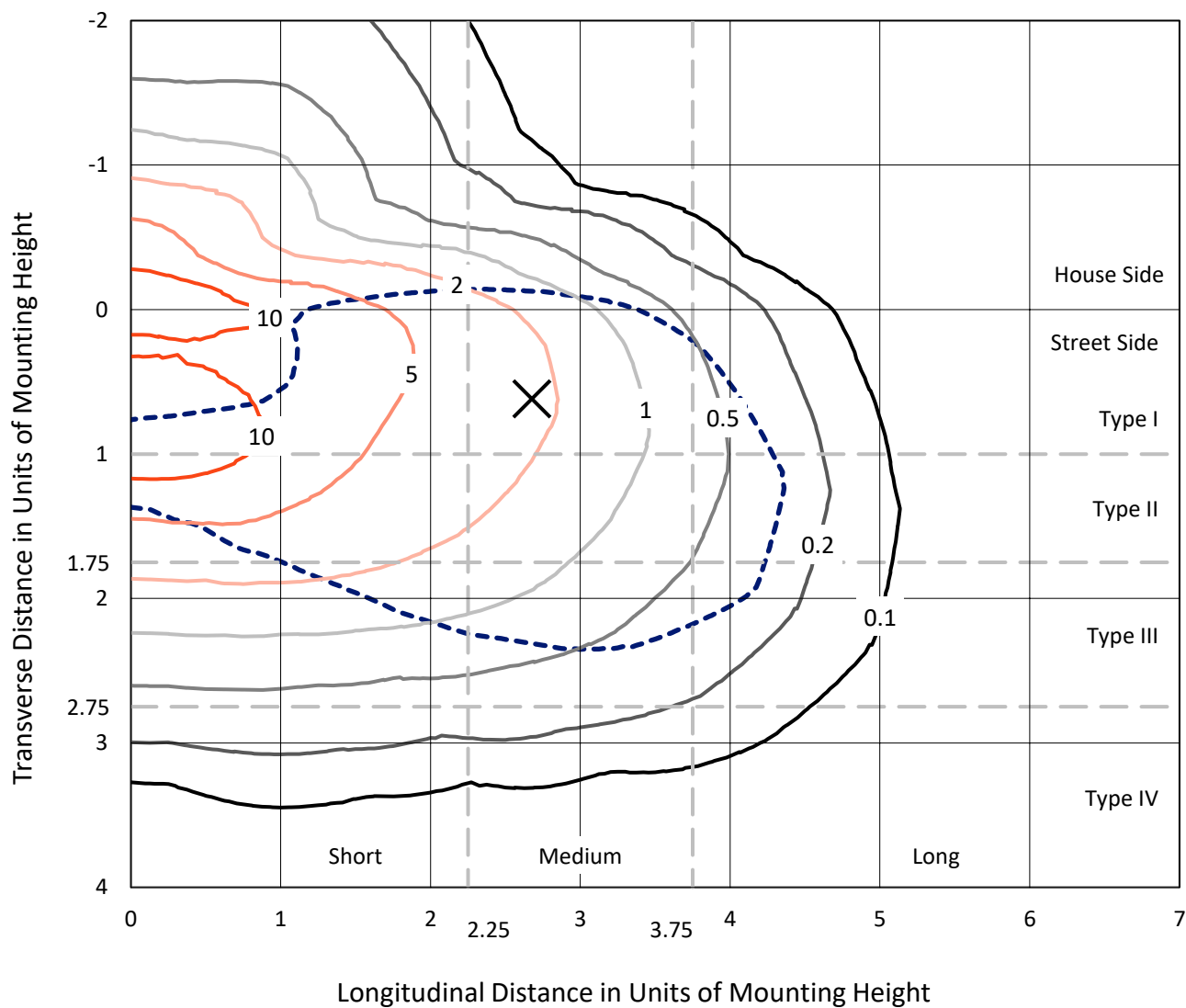
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

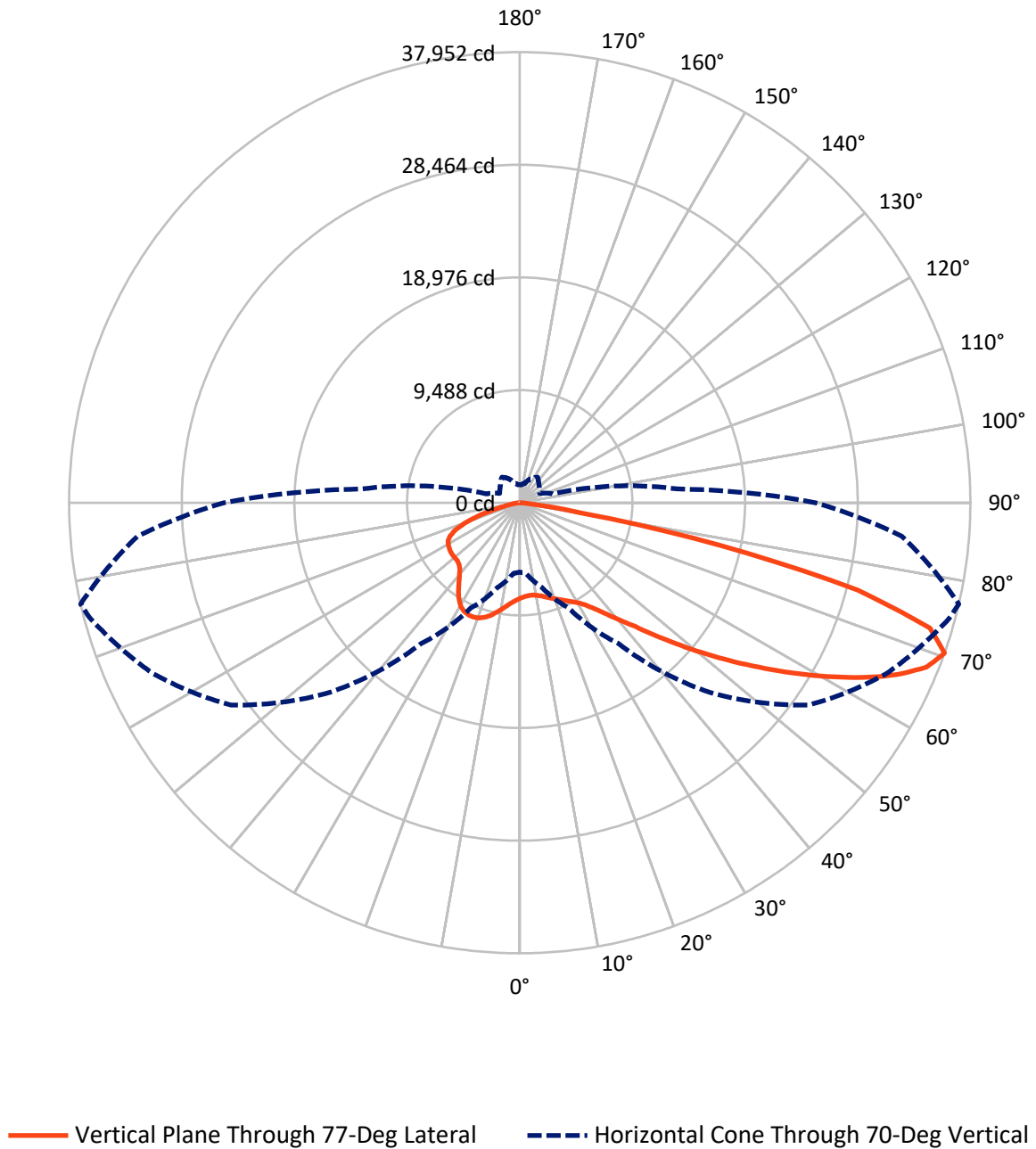


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12627.5	0.0	12627.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	45036.5	0.0	45036.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	57664.0	0.0	57664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.2	1.3
10°-20°	2214.3	3.8
20°-30°	3786.8	6.6
30°-40°	6089.6	10.6
40°-50°	9507.5	16.5
50°-60°	12699.7	22.0
60°-70°	13535.9	23.5
70°-80°	8332.6	14.5
80°-90°	730.2	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°	57664.0	100.0
0°-180°	57664.0	100.0

Coefficient of Utilization



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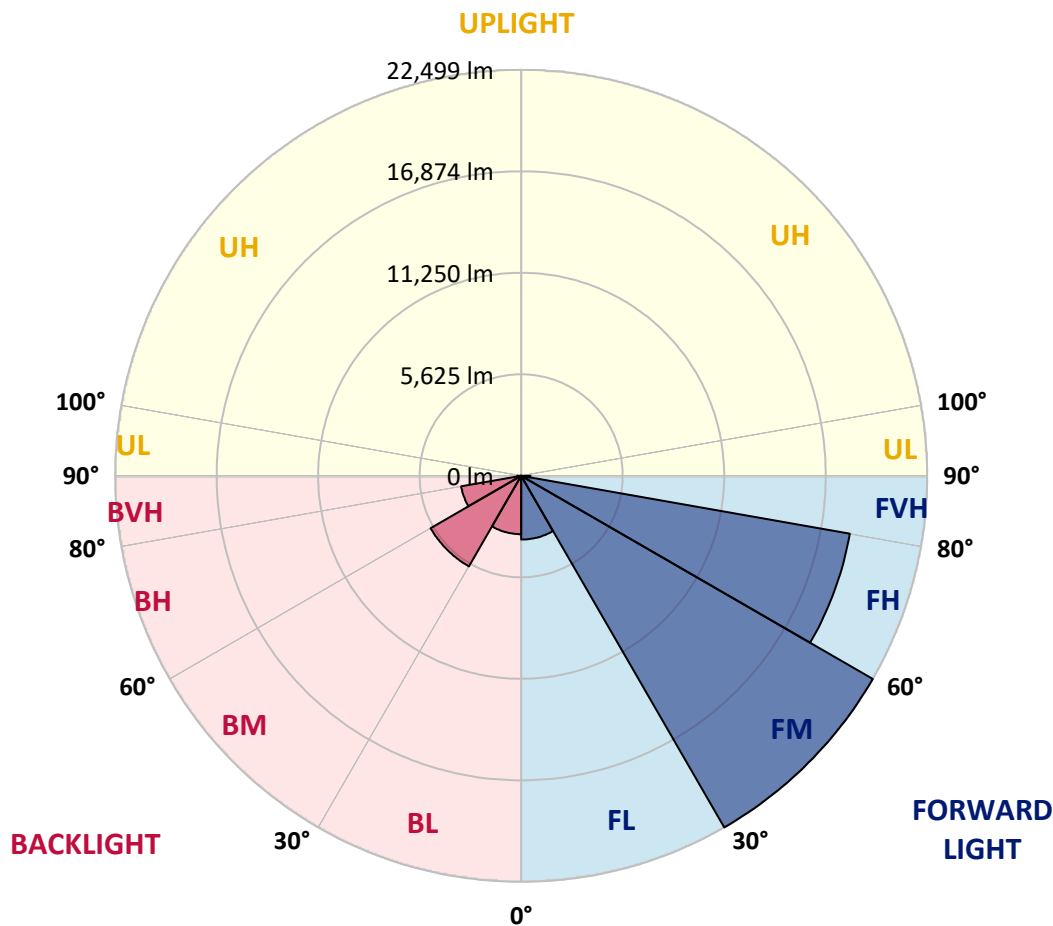
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3532.8	6.1			
FM	(30°-60°)	22499.2	39.0			
FH	(60°-80°)	18493.8	32.1			G5
FVH	(80°-90°)	510.6	0.9			G4/750
BL	(0°-30°)	3235.6	5.6	B4/5000		
BM	(30°-60°)	5797.6	10.1	B4/8500		
BH	(60°-80°)	3374.8	5.9	B4/5000		G4/5000
BVH	(80°-90°)	219.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7
2.5°	7415.6	7412.7	7451.1	7462.9	7533.7	7583.9	7678.5	7778.9	7908.8	7923.6	8003.3
5°	6987.4	6987.4	7031.7	7078.9	7170.5	7270.9	7415.6	7589.9	7814.3	7849.7	8047.6
7.5°	6624.1	6647.8	6686.2	6777.7	6884.0	7028.7	7250.2	7498.3	7793.6	7849.7	8168.7
10°	6331.8	6358.3	6405.6	6479.4	6638.9	6839.7	7129.1	7448.1	7843.8	7932.4	8345.9
12.5°	6240.2	6266.8	6293.4	6349.5	6497.2	6733.4	7078.9	7471.7	7964.9	8053.5	8588.1
15°	6452.9	6485.3	6464.7	6449.9	6526.7	6742.3	7102.6	7557.4	8115.5	8242.5	8886.3
17.5°	6943.1	6954.9	6907.7	6768.8	6757.0	6872.2	7214.8	7675.5	8304.5	8443.3	9187.6
20°	7734.6	7713.9	7616.4	7341.8	7185.3	7161.6	7406.8	7852.7	8499.5	8647.1	9512.4
22.5°	8809.5	8785.9	8591.0	8156.9	7808.4	7578.0	7684.4	8083.0	8718.0	8883.4	9828.4
25°	10150.3	10117.8	9831.4	9240.7	8700.3	8130.3	8062.4	8387.2	8986.7	9140.3	10159.2
27.5°	11715.5	11689.0	11378.9	10599.2	9819.6	8886.3	8531.9	8744.6	9267.3	9441.5	10531.3
30°	13398.9	13475.7	12926.4	12087.7	11101.3	9872.7	9163.9	9184.6	9630.5	9787.1	10983.1
32.5°	15377.6	15510.5	14848.9	13785.8	12439.1	10944.7	9961.3	9798.9	10159.2	10289.1	11553.1
35°	17338.5	17489.1	16939.8	15764.5	14214.0	12208.7	10794.1	10504.7	10862.1	11003.8	12309.1
37.5°	19033.7	19234.5	18951.0	17929.2	16112.9	13732.6	11880.9	11334.6	11727.4	11904.6	13325.1
40°	20371.5	20678.7	20658.0	20020.1	18351.5	15581.3	13260.1	12359.4	12802.3	12994.3	14556.6
42.5°	21458.3	21724.1	21954.5	21922.0	20687.5	17681.1	14881.4	13691.3	14027.9	14249.4	15941.6
45°	22208.4	22492.0	22988.1	23522.6	22934.9	19928.5	16739.0	15271.3	15578.4	15912.1	17592.5
47.5°	22878.8	23200.7	23844.5	24692.1	24842.7	22184.8	18773.8	17111.1	17391.7	17737.2	19249.3
50°	22937.9	23215.5	24213.7	25415.7	26198.3	24352.5	20959.2	19175.5	19438.3	19807.5	21024.2
52.5°	21511.5	21948.6	23691.0	25395.0	26821.4	26165.8	23129.9	21322.5	21617.8	22060.8	22861.1
55°	16697.7	17338.5	22158.2	24603.5	26599.9	27338.2	25194.2	23605.3	23983.3	24447.0	24709.8
57.5°	14382.3	14662.9	17589.6	23162.3	25589.9	27642.4	26936.6	25911.8	26520.2	27028.1	26664.9
60°	12926.4	13159.7	14890.3	20920.8	24261.0	27161.0	28283.3	28061.8	29113.1	29718.6	28664.2
62.5°	11367.1	11588.6	13162.6	17468.5	22559.9	26360.7	29133.8	30046.4	31771.1	32432.6	30548.4
65°	9819.6	10008.6	11517.7	14677.7	20398.1	25560.4	29573.8	31762.2	34231.1	34916.3	32113.6
67.5°	8094.9	8251.4	9677.8	12383.0	17769.7	24464.7	29792.4	33111.8	36372.2	36959.9	32887.4
70°	5841.5	5962.6	7436.3	9793.0	14470.9	22580.6	29703.8	34068.7	37482.7	37952.2	32302.7
72.5°	2761.3	2870.6	4601.2	6358.3	10221.2	18912.6	27911.2	33309.7	36354.5	36121.2	28723.3
75°	1473.7	1568.2	2643.2	3487.8	5398.5	12964.8	22840.4	28693.8	30527.7	29393.7	21228.0
77.5°	998.2	1072.0	1636.1	2093.9	2466.0	6154.6	14680.6	19866.5	19113.4	17241.1	10631.7
80°	791.5	868.3	1340.8	1417.6	1193.1	2223.8	6066.0	9196.4	6606.4	5283.4	3024.1
82.5°	608.4	694.0	1128.1	1027.7	649.7	912.6	1766.0	2909.0	1692.2	1287.6	732.4
85°	372.1	463.7	886.0	655.6	366.2	416.4	599.5	809.2	516.8	431.2	262.8
87.5°	189.0	265.8	448.9	239.2	165.4	97.5	159.5	159.5	135.8	118.1	67.9
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°	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7	8044.7
2.5°	8074.2	8133.3	8233.7	8328.2	8402.0	8472.9	8543.8	8582.1	8594.0	8641.2	8667.8
5°	8168.7	8278.0	8472.9	8656.0	8771.2	8842.0	8892.2	8921.8	8927.7	8942.4	8966.1
7.5°	8342.9	8517.2	8788.9	8972.0	9057.6	9051.7	9031.0	8957.2	8927.7	8901.1	8907.0
10°	8588.1	8818.4	9152.1	9279.1	9226.0	9084.2	8901.1	8685.5	8585.1	8487.6	8458.1
12.5°	8892.2	9184.6	9512.4	9506.5	9243.7	8880.4	8455.2	8124.4	7914.7	7764.1	7728.7
15°	9261.4	9598.1	9849.1	9648.3	9072.4	8419.7	7796.6	7365.4	7176.4	7011.0	6993.3
17.5°	9642.4	10002.7	10117.8	9604.0	8641.2	7737.5	7031.7	6692.1	6506.0	6417.4	6444.0
20°	10014.5	10371.8	10277.3	9350.0	7985.6	6963.8	6334.7	6148.7	6110.3	6130.9	6122.1
22.5°	10407.3	10726.2	10309.8	8859.8	7149.8	6172.3	5826.8	5832.7	5918.3	5980.3	5995.1
25°	10808.9	11024.5	10224.2	8151.0	6252.0	5590.5	5504.9	5599.4	5767.7	5888.8	5921.3
27.5°	11195.8	11290.3	10038.1	7273.9	5481.2	5174.1	5188.9	5383.8	5637.8	5806.1	5847.4
30°	11632.9	11526.5	9680.8	6287.5	4946.7	4816.8	4940.8	5168.2	5422.2	5572.8	5608.2
32.5°	12126.0	11730.3	9113.7	5374.9	4568.7	4530.3	4734.1	4881.7	4993.9	5038.2	5061.9
35°	12740.3	12016.8	8387.2	4734.1	4229.1	4320.6	4515.5	4441.7	4397.4	4373.8	4397.4
37.5°	13537.7	12403.7	7536.7	4317.7	3954.4	4170.0	4249.7	4019.4	3845.1	3759.5	3780.2
40°	14497.5	12970.7	6718.6	3995.7	3780.2	4040.0	3901.2	3623.6	3402.1	3281.1	3289.9
42.5°	15563.6	13564.3	6030.5	3753.6	3682.7	3933.7	3644.3	3313.5	2956.2	2917.8	2956.2
45°	16682.9	14175.6	5561.0	3567.5	3635.5	3842.2	3496.6	2962.1	2708.1	2864.7	2947.3
47.5°	17802.2	14736.7	5277.5	3428.7	3611.8	3738.8	3366.7	2767.2	2587.0	2814.4	2920.8
50°	19048.5	15238.8	5150.5	3328.3	3585.2	3697.5	3171.8	2717.0	2460.1	2610.7	2722.9
52.5°	20285.9	15628.6	5056.0	3227.9	3546.9	3665.0	3077.3	2657.9	2306.5	2315.3	2377.4
55°	21520.3	15882.6	4952.6	3095.0	3461.2	3594.1	3068.4	2593.0	2191.3	2150.0	2179.5
57.5°	22837.5	16027.3	4825.6	2947.3	3313.5	3414.0	3059.6	2542.7	2155.9	2087.9	2096.8
60°	24178.3	16239.9	4660.2	2767.2	3115.7	3198.4	3038.9	2525.0	2135.2	2020.0	2028.9
62.5°	25380.2	16313.8	4462.4	2595.9	2861.7	2985.7	2994.6	2510.3	2079.1	1881.2	1881.2
65°	26168.8	15994.8	4116.8	2401.0	2587.0	2767.2	2909.0	2460.1	1978.7	1780.8	1780.8
67.5°	26136.3	15085.2	3576.4	2150.0	2321.3	2525.0	2784.9	2374.4	1857.6	1656.8	1665.6
70°	24919.5	13289.6	2891.2	1857.6	2028.9	2265.1	2625.4	2247.4	1712.9	1520.9	1538.6
72.5°	21372.7	10401.3	2099.8	1515.0	1689.3	1996.4	2418.7	2093.9	1565.2	1399.8	1391.0
75°	15268.3	6582.8	1423.5	1163.6	1314.2	1692.2	2161.8	1913.7	1429.4	1405.7	1326.0
77.5°	7799.5	3145.2	942.1	850.5	915.5	1334.9	1816.2	1709.9	1450.0	1160.6	1033.6
80°	2536.8	1160.6	593.6	578.8	608.4	888.9	1405.7	1402.8	1098.6	788.5	697.0
82.5°	809.2	499.1	386.9	372.1	357.3	558.2	980.5	1110.4	741.3	499.1	496.1
85°	321.9	298.3	227.4	209.7	150.6	262.8	513.9	738.3	552.3	360.3	369.2
87.5°	118.1	118.1	62.0	44.3	32.5	88.6	138.8	221.5	316.0	186.1	183.1
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)