

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: P953080

Luminaire Tested: **GALN-SB6D-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953080
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-SB6D-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 58759 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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



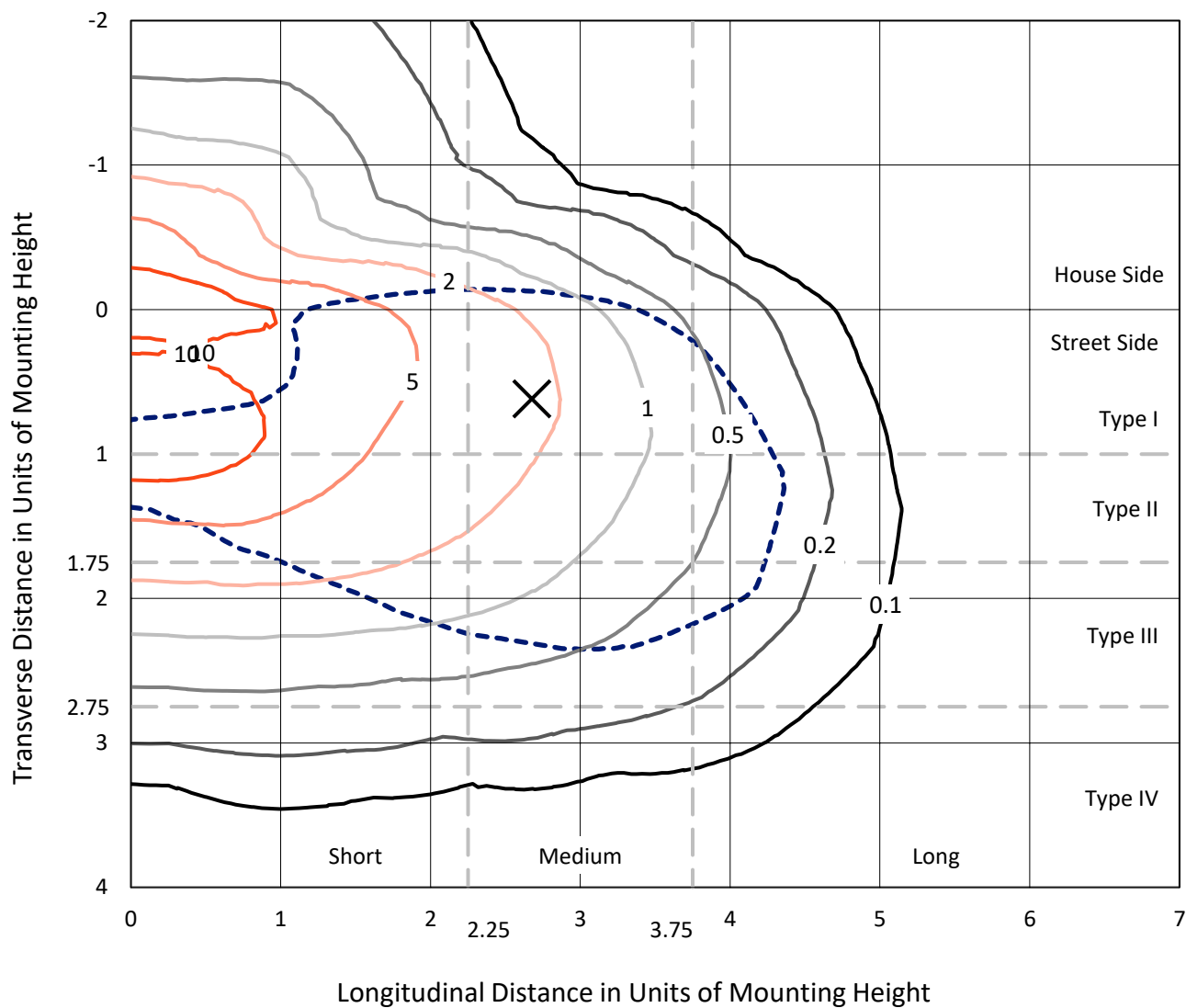
REPORT NUMBER: P953080

CATALOG NUMBER: GALN-SB6D-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

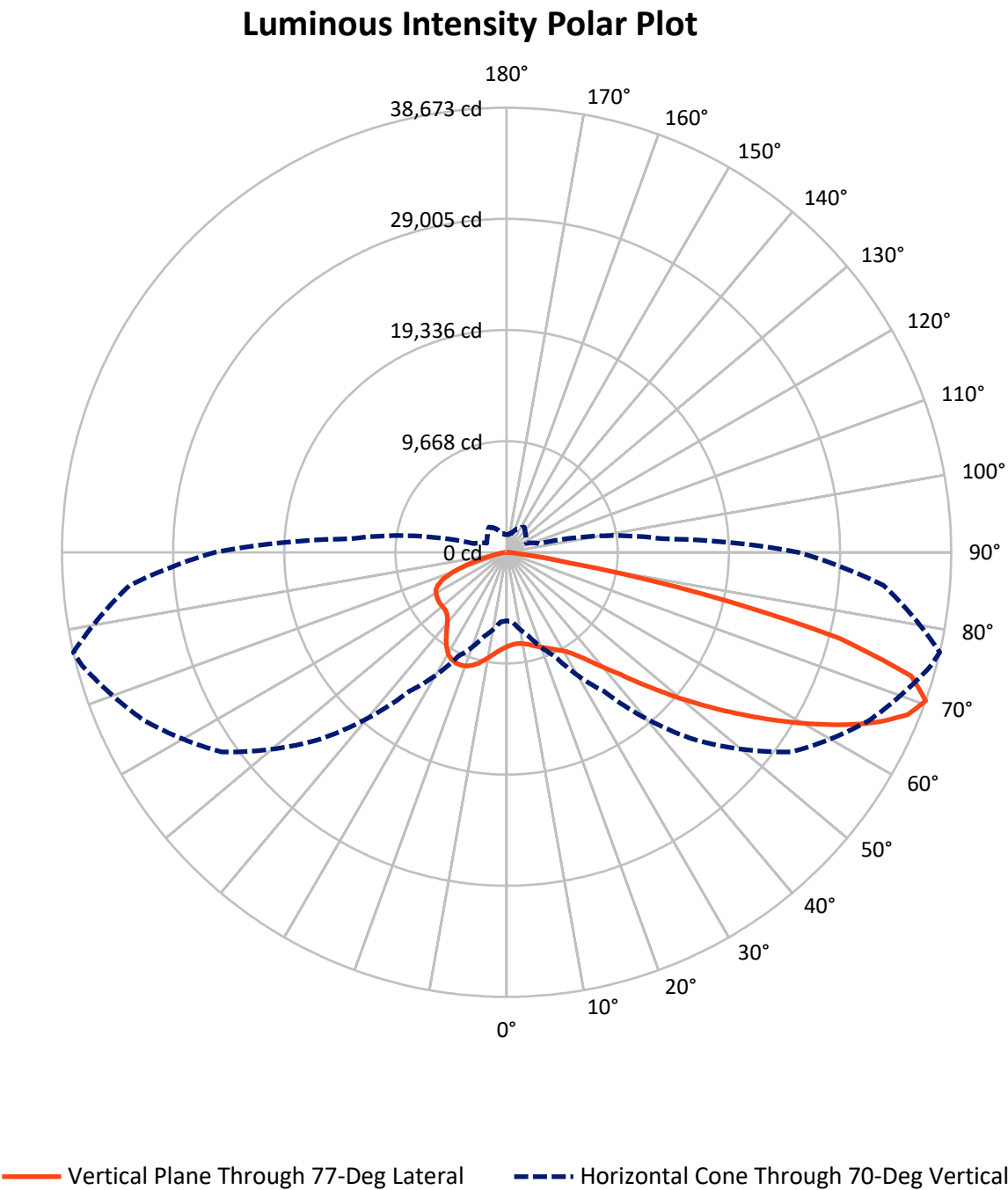
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
Type III - Medium - N/A

REPORT NUMBER: P953080
CATALOG NUMBER: GALN-SB6D-727-U-T3R



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12867.3	0.0	12867.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	45891.7	0.0	45891.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	58759.0	0.0	58759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.8	1.3
10°-20°	2256.4	3.8
20°-30°	3858.7	6.6
30°-40°	6205.2	10.6
40°-50°	9688.0	16.5
50°-60°	12940.9	22.0
60°-70°	13793.0	23.5
70°-80°	8490.9	14.5
80°-90°	744.0	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°	58759.0	100.0
0°-180°	58759.0	100.0

Coefficient of Utilization



REPORT NUMBER: P953080

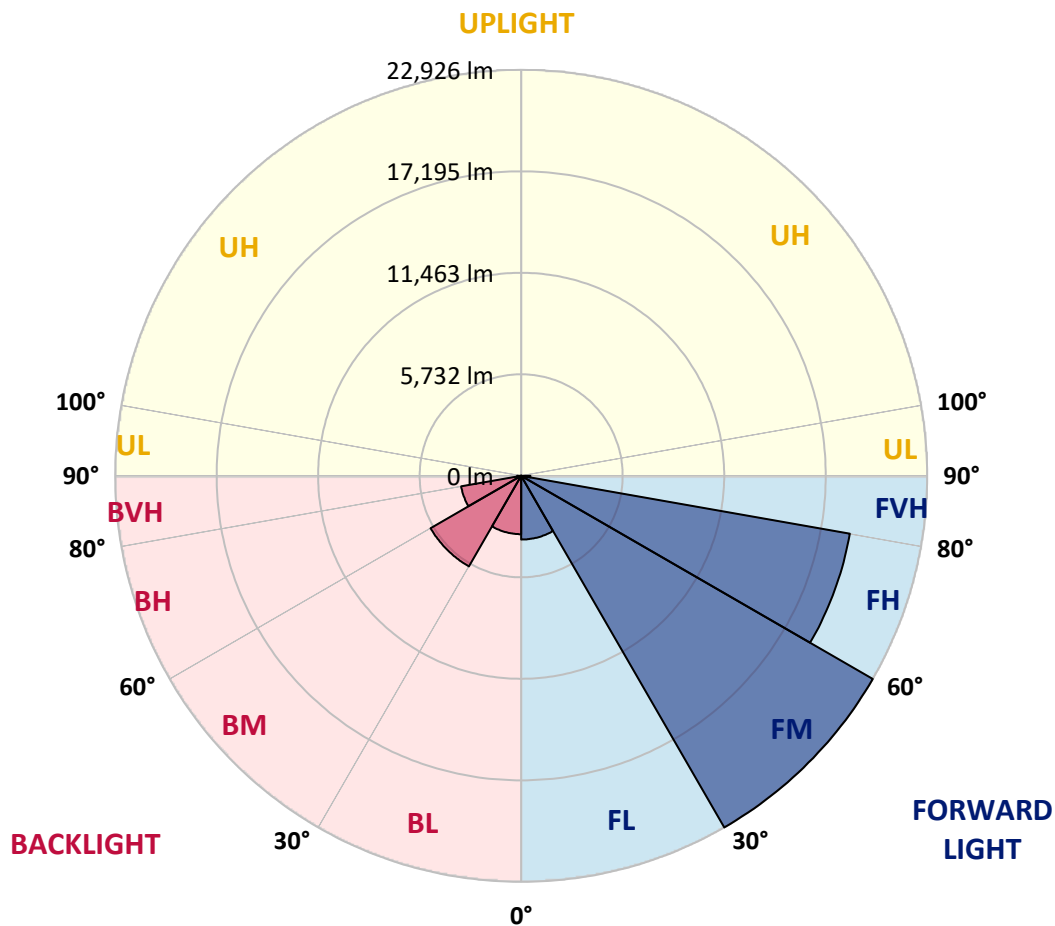
CATALOG NUMBER: GALN-SB6D-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3599.9	6.1			
FM	(30°-60°)	22926.5	39.0			
FH	(60°-80°)	18845.0	32.1			G5
FVH	(80°-90°)	520.3	0.9			G4/750
BL	(0°-30°)	3297.0	5.6	B4/5000		
BM	(30°-60°)	5907.7	10.1	B4/8500		
BH	(60°-80°)	3438.9	5.9	B4/5000		G4/5000
BVH	(80°-90°)	223.8	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



REPORT NUMBER: P953080

CATALOG NUMBER: GALN-SB6D-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4
2.5°	7556.4	7553.4	7592.5	7604.6	7676.8	7728.0	7824.3	7926.6	8059.0	8074.0	8155.3
5°	7120.1	7120.1	7165.2	7213.4	7306.7	7409.0	7556.4	7734.0	7962.7	7998.8	8200.4
7.5°	6749.9	6774.0	6813.1	6906.4	7014.7	7162.2	7387.9	7640.7	7941.6	7998.8	8323.8
10°	6452.0	6479.1	6527.2	6602.5	6765.0	6969.6	7264.5	7589.5	7992.8	8083.1	8504.4
12.5°	6358.7	6385.8	6412.9	6470.1	6620.5	6861.3	7213.4	7613.6	8116.2	8206.4	8751.1
15°	6575.4	6608.5	6587.4	6572.4	6650.6	6870.3	7237.4	7700.9	8269.6	8399.0	9055.1
17.5°	7074.9	7087.0	7038.8	6897.4	6885.3	7002.7	7351.8	7821.3	8462.2	8603.7	9362.0
20°	7881.4	7860.4	7761.1	7481.2	7321.7	7297.6	7547.4	8001.8	8660.9	8811.3	9693.1
22.5°	8976.8	8952.8	8754.1	8311.8	7956.7	7721.9	7830.3	8236.5	8883.5	9052.1	10015.1
25°	10343.1	10310.0	10018.1	9416.2	8865.5	8284.7	8215.5	8546.5	9157.4	9313.9	10352.1
27.5°	11938.0	11910.9	11595.0	10800.5	10006.0	9055.1	8694.0	8910.6	9443.3	9620.8	10731.3
30°	13653.3	13731.6	13171.8	12317.2	11312.1	10060.2	9338.0	9359.0	9813.4	9972.9	11191.7
32.5°	15669.6	15805.0	15130.9	14047.6	12675.3	11152.6	10150.5	9985.0	10352.1	10484.5	11772.5
35°	17667.8	17821.3	17261.5	16063.8	14483.9	12440.6	10999.1	10704.2	11068.3	11212.8	12542.9
37.5°	19395.1	19599.8	19310.9	18269.6	16418.9	13993.4	12106.5	11549.8	11950.1	12130.6	13578.1
40°	20758.4	21071.3	21050.3	20400.3	18700.0	15877.2	13511.9	12594.0	13045.4	13241.1	14833.0
42.5°	21865.8	22136.6	22371.4	22338.3	21080.4	18016.9	15164.0	13951.3	14294.3	14520.0	16244.4
45°	22630.2	22919.1	23424.6	23969.3	23370.5	20307.0	17056.9	15561.2	15874.2	16214.3	17926.6
47.5°	23313.3	23641.3	24297.3	25161.0	25314.5	22606.1	19130.3	17436.1	17721.9	18074.0	19614.8
50°	23373.5	23656.3	24673.5	25898.3	26695.8	24814.9	21357.2	19539.6	19807.4	20183.6	21423.4
52.5°	21920.0	22365.3	24140.9	25877.2	27330.7	26662.7	23569.1	21727.4	22028.3	22479.7	23295.2
55°	17014.8	17667.8	22579.0	25070.7	27105.0	27857.4	25672.6	24053.6	24438.8	24911.2	25179.1
57.5°	14655.4	14941.3	17923.6	23602.2	26075.8	28167.3	27448.1	26403.9	27023.8	27541.4	27171.2
60°	13171.8	13409.6	15173.0	21318.1	24721.7	27676.8	28820.4	28594.7	29666.0	30282.9	29208.6
62.5°	11582.9	11808.6	13412.6	17800.2	22988.3	26861.3	29687.0	30616.9	32374.4	33048.5	31128.5
65°	10006.0	10198.6	11736.4	14956.4	20785.4	26045.8	30135.4	32365.4	34881.2	35579.3	32723.5
67.5°	8248.6	8408.1	9861.6	12618.1	18107.1	24929.3	30358.1	33740.6	37062.9	37661.8	33511.9
70°	5952.5	6075.8	7577.5	9978.9	14745.7	23009.3	30267.8	34715.6	38194.4	38672.9	32916.1
72.5°	2813.7	2925.1	4688.5	6479.1	10415.3	19271.8	28441.2	33942.2	37044.9	36807.1	29268.7
75°	1501.7	1598.0	2693.4	3554.0	5501.1	13211.0	23274.2	29238.7	31107.5	29951.9	21631.1
77.5°	1017.2	1092.4	1667.2	2133.6	2512.8	6271.4	14959.4	20243.8	19476.4	17568.5	10833.6
80°	806.5	884.7	1366.2	1444.5	1215.8	2266.0	6181.2	9371.1	6731.9	5383.7	3081.6
82.5°	619.9	707.2	1149.6	1047.2	662.1	929.9	1799.6	2964.2	1724.3	1312.1	746.3
85°	379.2	472.5	902.8	668.1	373.2	424.3	610.9	824.6	526.6	439.4	267.8
87.5°	192.6	270.8	457.4	243.8	168.5	99.3	162.5	162.5	138.4	120.4	69.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953080

CATALOG NUMBER: GALN-SB6D-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4	8197.4
2.5°	8227.5	8287.7	8390.0	8486.3	8561.5	8633.8	8706.0	8745.1	8757.2	8805.3	8832.4
5°	8323.8	8435.2	8633.8	8820.3	8937.7	9009.9	9061.1	9091.2	9097.2	9112.3	9136.3
7.5°	8501.4	8678.9	8955.8	9142.3	9229.6	9223.6	9202.5	9127.3	9097.2	9070.1	9076.1
10°	8751.1	8985.9	9325.9	9455.3	9401.1	9256.7	9070.1	8850.4	8748.1	8648.8	8618.7
12.5°	9061.1	9359.0	9693.1	9687.0	9419.2	9049.1	8615.7	8278.7	8065.0	7911.5	7875.4
15°	9437.3	9780.3	10036.1	9831.5	9244.7	8579.6	7944.6	7505.3	7312.7	7144.2	7126.1
17.5°	9825.5	10192.6	10310.0	9786.3	8805.3	7884.4	7165.2	6819.1	6629.6	6539.3	6566.4
20°	10204.6	10568.8	10472.5	9527.5	8137.2	7096.0	6455.0	6265.4	6226.3	6247.4	6238.3
22.5°	10604.9	10929.9	10505.6	9028.0	7285.6	6289.5	5937.4	5943.4	6030.7	6093.9	6108.9
25°	11014.1	11233.8	10418.3	8305.8	6370.8	5696.7	5609.4	5705.7	5877.2	6000.6	6033.7
27.5°	11408.4	11504.7	10228.7	7412.0	5585.3	5272.3	5287.4	5486.0	5744.8	5916.3	5958.5
30°	11853.8	11745.4	9864.6	6406.9	5040.6	4908.2	5034.6	5266.3	5525.1	5678.6	5714.7
32.5°	12356.3	11953.1	9286.8	5477.0	4655.4	4616.3	4824.0	4974.4	5088.8	5133.9	5158.0
35°	12982.3	12245.0	8546.5	4824.0	4309.4	4402.7	4601.3	4526.0	4480.9	4456.8	4480.9
37.5°	13794.8	12639.2	7679.8	4399.6	4029.5	4249.2	4330.4	4095.7	3918.1	3830.9	3851.9
40°	14772.8	13217.0	6846.2	4071.6	3851.9	4116.8	3975.3	3692.4	3466.7	3343.4	3352.4
42.5°	15859.2	13821.9	6145.1	3824.9	3752.6	4008.4	3713.5	3376.5	3012.3	2973.2	3012.3
45°	16999.7	14444.8	5666.6	3635.3	3704.5	3915.1	3563.0	3018.4	2759.6	2919.1	3003.3
47.5°	18140.2	15016.6	5377.7	3493.8	3680.4	3809.8	3430.6	2819.7	2636.2	2867.9	2976.2
50°	19410.2	15528.1	5248.3	3391.5	3653.3	3767.7	3232.0	2768.6	2506.8	2660.2	2774.6
52.5°	20671.1	15925.4	5152.0	3289.2	3614.2	3734.6	3135.7	2708.4	2350.3	2359.3	2422.5
55°	21929.0	16184.2	5046.6	3153.8	3526.9	3662.4	3126.7	2642.2	2232.9	2190.8	2220.9
57.5°	23271.2	16331.6	4917.2	3003.3	3376.5	3478.8	3117.7	2591.0	2196.8	2127.6	2136.6
60°	24637.4	16548.3	4748.7	2819.7	3174.8	3259.1	3096.6	2573.0	2175.7	2058.4	2067.4
62.5°	25862.2	16623.5	4547.1	2645.2	2916.0	3042.4	3051.5	2557.9	2118.6	1916.9	1916.9
65°	26665.7	16298.5	4195.0	2446.6	2636.2	2819.7	2964.2	2506.8	2016.3	1814.6	1814.6
67.5°	26632.6	15371.7	3644.3	2190.8	2365.3	2573.0	2837.8	2419.5	1892.9	1688.2	1697.3
70°	25392.7	13542.0	2946.1	1892.9	2067.4	2308.2	2675.3	2290.1	1745.4	1549.8	1567.9
72.5°	21778.5	10598.9	2139.6	1543.8	1721.3	2034.3	2464.6	2133.6	1594.9	1426.4	1417.4
75°	15558.2	6707.8	1450.5	1185.7	1339.2	1724.3	2202.8	1950.0	1456.5	1432.4	1351.2
77.5°	7947.6	3204.9	960.0	866.7	932.9	1360.2	1850.7	1742.4	1477.6	1182.7	1053.3
80°	2585.0	1182.7	604.9	589.8	619.9	905.8	1432.4	1429.4	1119.5	803.5	710.2
82.5°	824.6	508.6	394.2	379.2	364.1	568.8	999.1	1131.5	755.3	508.6	505.6
85°	328.0	303.9	231.7	213.7	153.5	267.8	523.6	752.3	562.7	367.1	376.2
87.5°	120.4	120.4	63.2	45.1	33.1	90.3	141.4	225.7	322.0	189.6	186.6
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)