

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: P944515

Luminaire Tested: **GALN-SB9C-730-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944515
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-SB9C-730-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67589 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 449.8
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



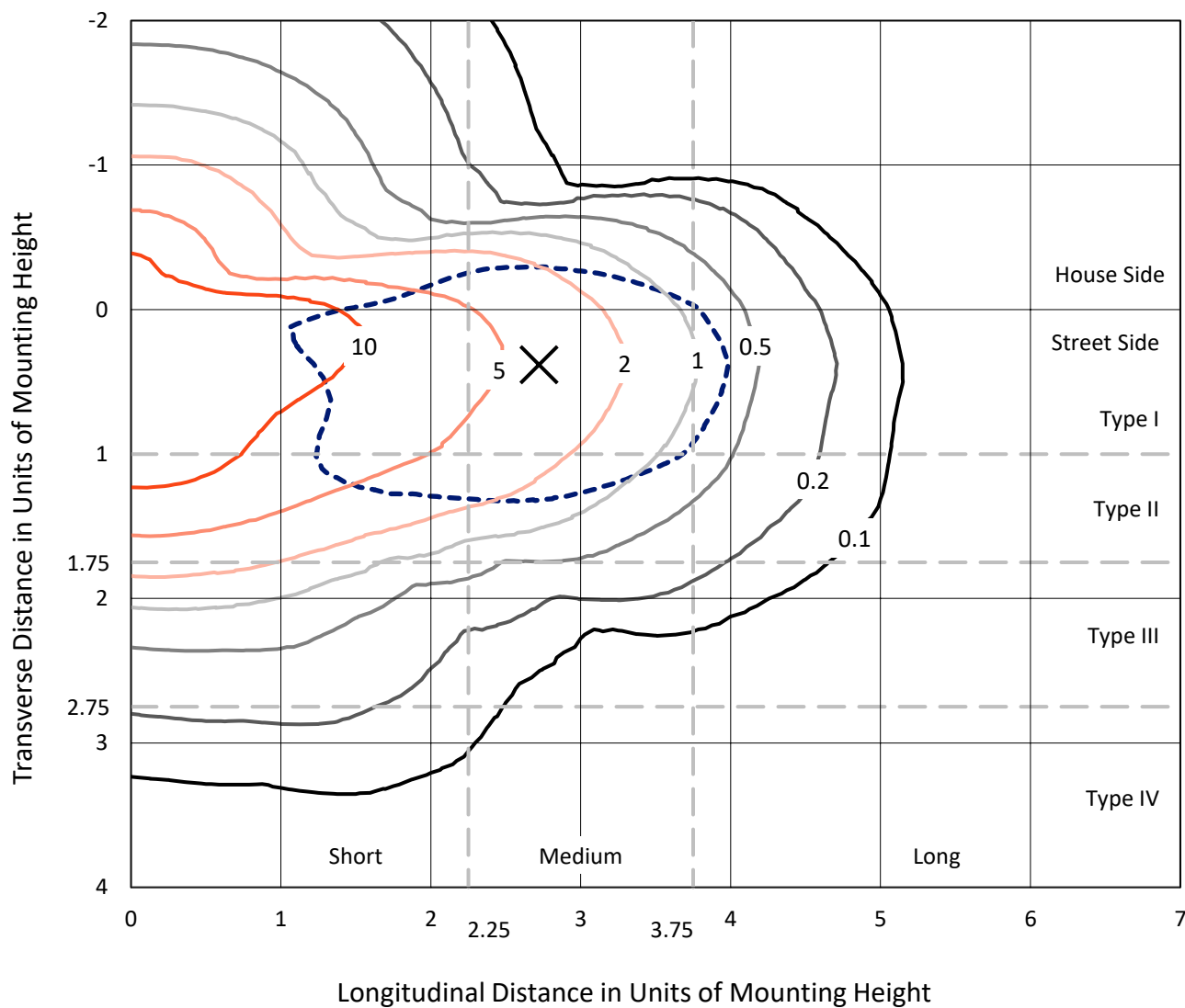
REPORT NUMBER: P944515

CATALOG NUMBER: GALN-SB9C-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

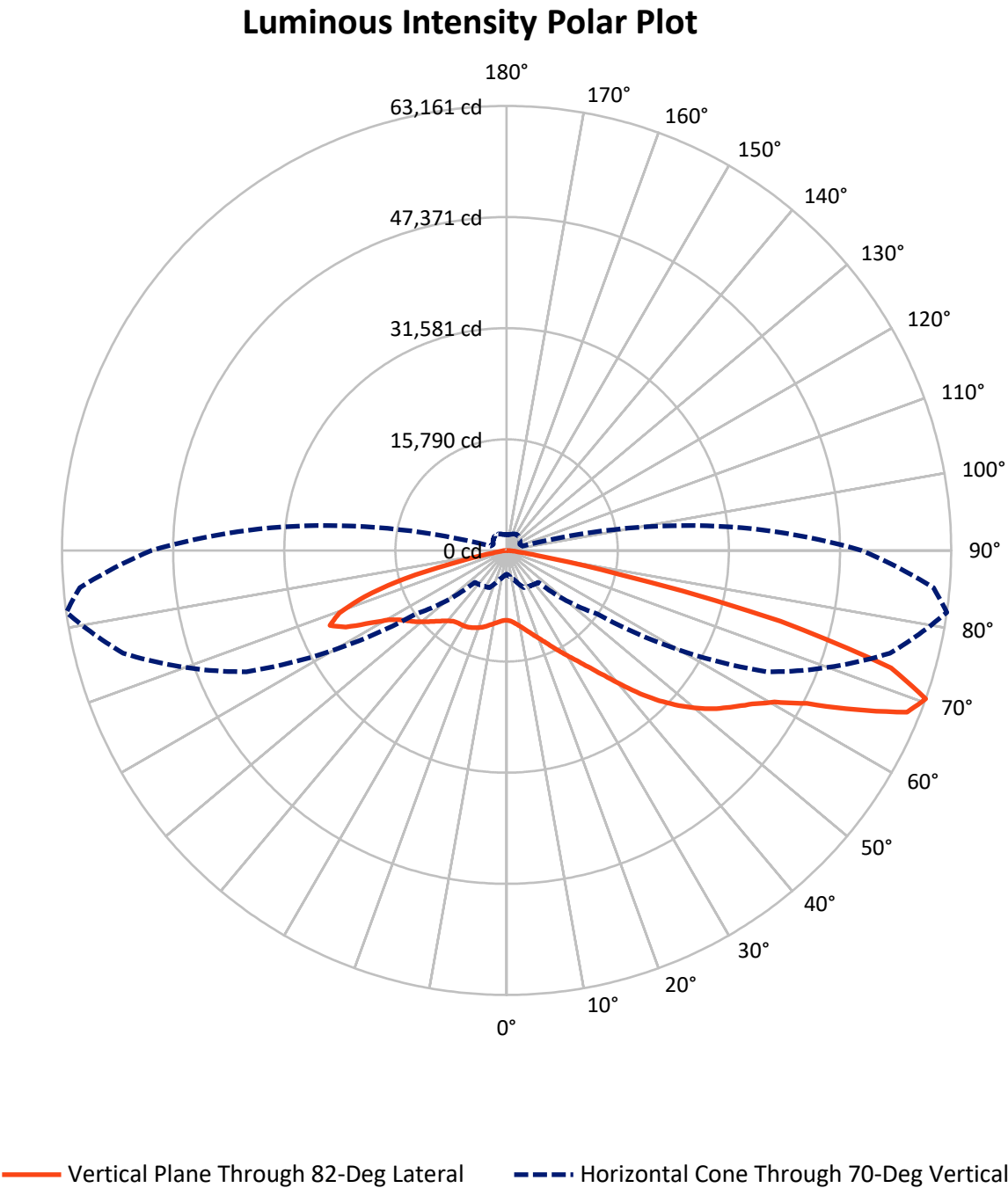
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
Type II - Medium - N/A

REPORT NUMBER: P944515
CATALOG NUMBER: GALN-SB9C-730-U-T2



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16662.3	0.0	16662.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	50926.7	0.0	50926.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	67589.0	0.0	67589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	935.6	1.4
10°-20°	2688.1	4.0
20°-30°	4496.9	6.7
30°-40°	7025.3	10.4
40°-50°	11188.7	16.6
50°-60°	15570.4	23.0
60°-70°	16287.4	24.1
70°-80°	8512.6	12.6
80°-90°	883.9	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°	67589.0	100.0
0°-180°	67589.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944515

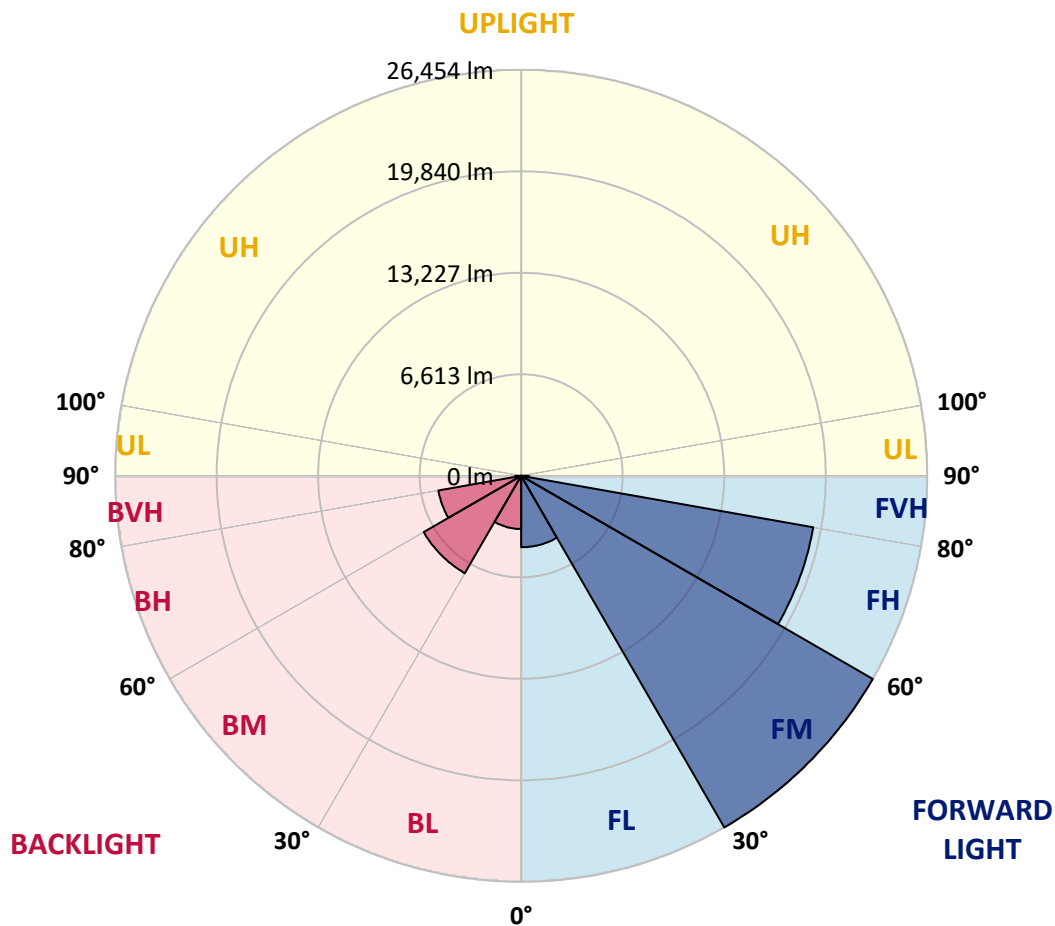
CATALOG NUMBER: GALN-SB9C-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4654.3	6.9			
FM	(30°-60°)	26453.7	39.1			
FH	(60°-80°)	19323.9	28.6			G5
FVH	(80°-90°)	494.8	0.7			G3/500
BL	(0°-30°)	3466.4	5.1	B4/5000		
BM	(30°-60°)	7330.8	10.8	B4/8500		
BH	(60°-80°)	5476.1	8.1	B5		G5
BVH	(80°-90°)	389.1	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



REPORT NUMBER: P944515

CATALOG NUMBER: GALN-SB9C-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4
2.5°	10146.1	10203.5	10185.6	10167.6	10167.6	10142.5	10138.9	10103.1	10074.4	10027.7	10017.0
5°	10275.2	10336.2	10329.0	10343.4	10390.0	10400.7	10411.5	10390.0	10332.6	10275.2	10250.1
7.5°	10160.4	10228.6	10250.1	10336.2	10479.6	10608.8	10705.6	10745.0	10691.2	10608.8	10569.3
10°	9773.1	9848.4	9923.7	10128.2	10382.8	10687.7	10945.9	11100.1	11089.3	11010.4	10942.3
12.5°	8987.7	9066.6	9228.0	9626.1	10092.3	10630.3	11110.9	11433.6	11544.8	11487.4	11369.1
15°	8360.0	8428.2	8550.1	8959.0	9565.1	10382.8	11171.8	11799.5	12082.8	12050.5	11907.1
17.5°	8342.1	8370.8	8446.1	8639.8	9106.0	9995.5	11107.3	12158.1	12699.7	12696.1	12516.7
20°	8657.7	8668.5	8711.5	8751.0	9016.4	9701.4	10942.3	12455.8	13391.8	13391.8	13198.2
22.5°	9095.3	9088.1	9131.1	9095.3	9224.4	9676.3	10838.3	12717.6	14162.9	14220.3	13976.4
25°	9751.6	9715.7	9705.0	9622.5	9647.6	9909.4	10953.1	13015.3	15077.5	15195.8	14891.0
27.5°	10626.7	10569.3	10529.9	10339.8	10275.2	10390.0	11304.5	13373.9	16096.0	16300.5	15913.1
30°	11767.2	11663.2	11605.8	11275.8	11042.7	11060.6	11835.3	13850.9	17161.2	17491.2	16999.8
32.5°	13323.7	13162.3	13008.1	12466.5	12039.8	11899.9	12520.3	14510.8	18316.1	18843.3	18212.1
35°	15066.7	14937.6	14772.6	13937.0	13280.7	12957.9	13445.6	15432.5	19668.2	20503.8	19682.5
37.5°	16745.2	16634.0	16712.9	15586.8	14740.4	14270.5	14657.9	16669.9	21335.9	22569.6	21525.9
40°	18481.0	18395.0	18405.7	17329.8	16343.5	15816.3	16128.3	18222.8	23247.4	25026.3	23742.4
42.5°	20367.5	20303.0	20087.8	19133.8	18025.6	17534.2	17821.1	20016.0	25298.9	27823.8	26174.0
45°	22479.9	22440.5	22239.6	21145.8	19876.2	19323.9	19711.2	21995.8	27361.1	30456.2	28616.4
47.5°	24305.4	24337.7	24312.6	23390.9	22074.7	21264.1	21726.8	24061.6	29279.9	32930.9	30958.3
50°	25184.1	25352.7	25600.2	25313.2	24495.5	23670.6	23760.3	26055.6	31109.0	35251.3	33203.5
52.5°	24725.1	25044.3	25718.5	26177.6	26493.2	26321.0	26080.7	28035.4	32830.5	37345.8	35326.6
55°	23014.3	23462.6	24581.6	25689.8	27300.1	28551.8	28867.4	30230.3	34508.9	39189.3	37335.1
57.5°	19897.7	20625.7	21629.9	23871.5	26582.9	29631.3	32116.8	33275.2	36287.8	41158.2	39436.7
60°	14553.9	15529.4	16777.5	20112.9	24072.3	29053.9	34881.9	37951.9	38816.3	43708.2	42173.2
62.5°	9314.0	9916.6	11064.2	14206.0	18757.2	26095.1	35728.3	43797.9	43102.1	47890.0	46276.1
65°	6376.7	6764.1	7814.9	9579.4	12125.8	19424.3	33461.7	48180.5	49909.2	54517.8	53291.2
67.5°	4633.7	4927.8	5824.4	7370.2	7901.0	11494.6	25966.0	47979.7	56526.2	61346.4	59438.4
70°	3378.4	3586.5	4339.6	5824.4	6079.1	6394.7	15730.2	40785.2	56382.8	63161.2	60876.6
72.5°	2503.3	2646.8	3152.5	4518.9	4920.6	4318.1	7786.2	29642.1	48449.5	57128.7	55296.1
75°	1811.2	1918.8	2291.7	3457.3	3937.9	3288.8	3884.1	17322.6	33795.2	40186.3	40509.1
77.5°	1384.4	1466.9	1710.7	2532.0	3152.5	2467.5	2410.1	7969.1	16024.3	16103.2	17007.0
80°	1111.8	1165.6	1298.3	1782.5	2417.3	1847.0	1570.9	3217.1	5064.1	4285.8	4497.4
82.5°	817.7	907.4	1097.5	1251.7	1728.7	1273.2	957.6	1624.7	1925.9	1656.9	1671.3
85°	466.2	527.2	663.5	896.6	1104.6	778.3	548.7	720.9	896.6	735.2	656.3
87.5°	165.0	215.2	233.1	351.5	480.6	322.8	211.6	208.0	294.1	218.8	182.9
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: P944515

CATALOG NUMBER: GALN-SB9C-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4	9909.4
2.5°	9981.1	9963.2	9891.5	9794.6	9694.2	9597.4	9565.1	9496.9	9450.3	9425.2	9453.9
5°	10182.0	10124.6	9956.0	9740.8	9514.9	9271.0	9098.9	8941.0	8826.3	8718.7	8761.7
7.5°	10468.9	10368.5	10078.0	9701.4	9299.7	8894.4	8593.2	8363.6	8209.4	8109.0	8130.5
10°	10802.4	10648.2	10203.5	9640.4	9020.0	8438.9	8083.9	7886.6	7789.8	7736.0	7750.3
12.5°	11186.2	10967.4	10332.6	9500.5	8593.2	7929.7	7685.8	7628.4	7632.0	7635.6	7642.7
15°	11659.6	11354.7	10436.6	9195.7	8037.3	7538.7	7495.7	7589.0	7685.8	7732.4	7728.8
17.5°	12194.0	11763.6	10454.5	8693.6	7492.1	7287.7	7424.0	7624.8	7771.9	7836.4	7850.8
20°	12767.8	12179.6	10325.4	7983.5	7043.8	7083.3	7327.1	7585.4	7746.8	7829.2	7850.8
22.5°	13424.1	12624.3	10017.0	7237.5	6678.0	6860.9	7147.8	7398.9	7567.4	7649.9	7671.4
25°	14173.7	13122.9	9532.8	6609.8	6362.4	6609.8	6896.8	7104.8	7241.1	7316.4	7337.9
27.5°	15005.8	13642.9	8887.3	6111.3	6086.2	6351.6	6588.3	6749.7	6821.4	6878.8	6900.4
30°	15841.4	14116.3	8105.4	5734.8	5845.9	6097.0	6265.5	6337.3	6358.8	6369.6	6394.7
32.5°	16745.2	14525.2	7284.1	5422.7	5616.4	5849.5	5949.9	5982.2	5881.8	5813.7	5835.2
35°	17839.1	14962.7	6480.7	5175.3	5390.5	5591.3	5623.6	5594.9	5476.5	5336.7	5343.8
37.5°	19191.2	15507.9	5838.8	4999.5	5178.9	5311.5	5272.1	5264.9	5275.7	5110.7	5121.5
40°	20848.1	16218.0	5368.9	4863.2	5006.7	5035.4	4924.2	4985.2	5039.0	4787.9	4795.1
42.5°	22688.0	17075.1	5071.3	4770.0	4863.2	4795.1	4622.9	4691.1	4683.9	4354.0	4350.4
45°	24563.7	18007.6	4967.2	4701.9	4730.5	4594.3	4404.2	4422.1	4271.5	3973.8	3984.6
47.5°	26428.6	19008.2	5031.8	4644.5	4565.6	4411.3	4264.3	4185.4	3963.0	3740.7	3740.7
50°	28257.7	20059.1	5268.5	4529.7	4339.6	4250.0	4142.4	4002.5	3765.8	3575.7	3561.4
52.5°	29954.1	21117.1	5533.9	4339.6	4056.3	4110.1	4041.9	3880.6	3647.4	3453.8	3457.3
55°	31560.9	22175.1	5637.9	4077.8	3790.9	3988.1	3948.7	3651.0	3371.3	3213.5	3199.1
57.5°	33311.1	23448.3	5523.2	3744.3	3575.7	3848.3	3697.6	3367.7	3206.3	3087.9	3077.2
60°	35735.5	25445.9	5275.7	3331.8	3371.3	3640.3	3382.0	3245.7	3070.0	2937.3	2930.1
62.5°	39763.1	29172.3	4877.6	2923.0	3131.0	3331.8	3231.4	3095.1	2915.8	2786.7	2786.7
65°	45716.6	34351.1	4128.0	2603.8	2862.0	3030.6	3070.0	2933.7	2747.2	2610.9	2618.1
67.5°	50737.7	37600.5	3123.8	2338.4	2585.8	2786.7	2897.9	2765.2	2567.9	2435.2	2438.8
70°	50461.5	35240.6	2385.0	2076.6	2342.0	2546.4	2689.8	2585.8	2374.2	2248.7	2259.5
72.5°	44820.0	29480.7	1929.5	1811.2	2094.5	2295.3	2467.5	2388.6	2173.4	2051.5	2051.5
75°	32927.3	20927.0	1542.2	1542.2	1786.1	2033.5	2223.6	2173.4	1976.1	1890.1	1865.0
77.5°	13879.6	8779.7	1208.6	1280.4	1484.8	1746.6	1983.3	2001.2	1829.1	1936.7	1757.4
80°	3690.5	2420.9	921.7	1007.8	1165.6	1441.8	1725.1	1717.9	1531.4	1431.0	1330.6
82.5°	1405.9	954.0	656.3	710.1	842.8	1104.6	1366.4	1409.5	1223.0	1058.0	1058.0
85°	541.6	408.9	405.3	426.8	491.3	731.6	1032.9	1068.8	921.7	781.8	807.0
87.5°	139.9	121.9	150.6	143.5	225.9	390.9	591.8	613.3	563.1	326.4	466.2
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)