

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: P955598

Luminaire Tested: **GALN-SB8C-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61370 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - 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

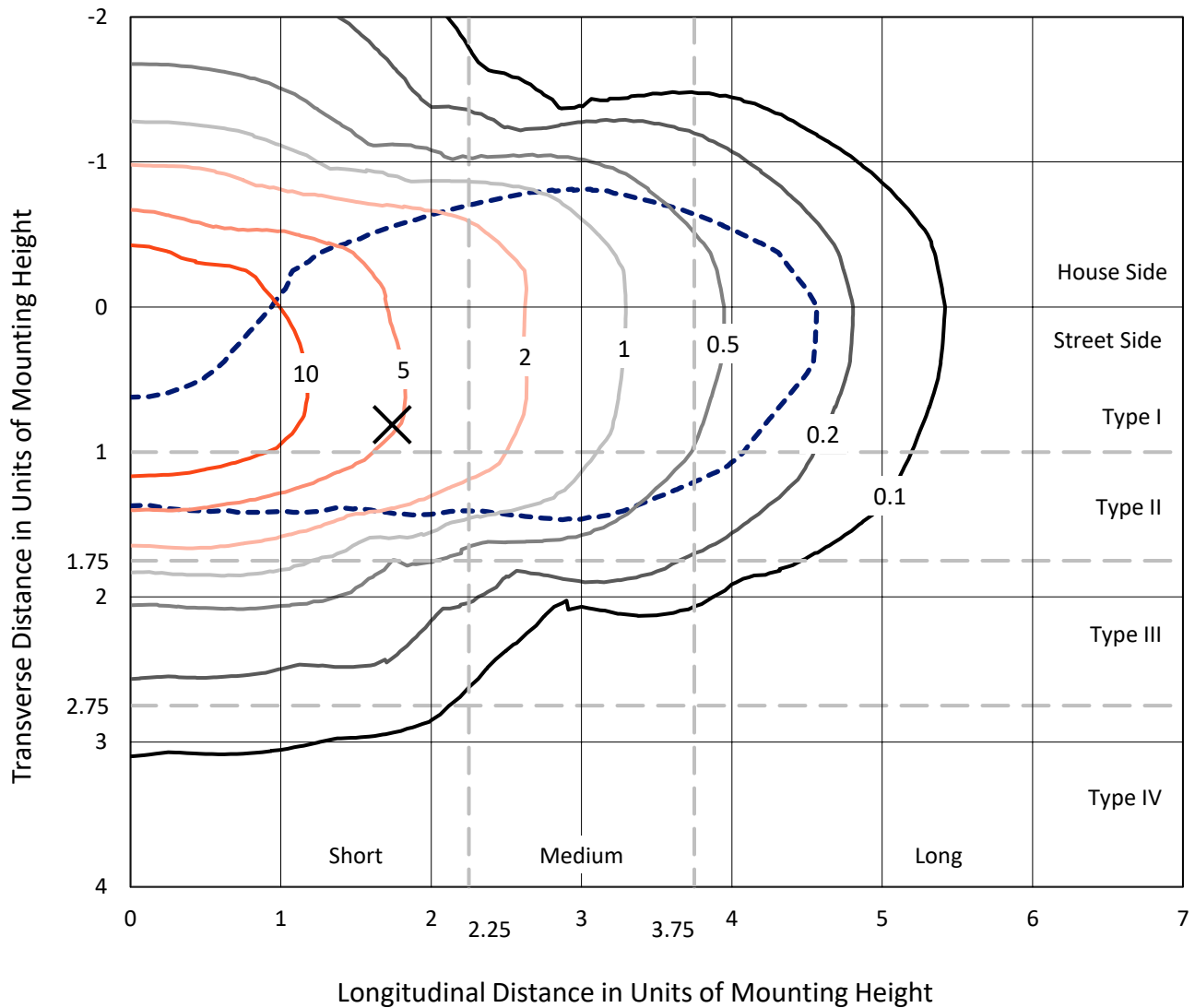


REPORT NUMBER: P955598

CATALOG NUMBER: GALN-SB8C-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

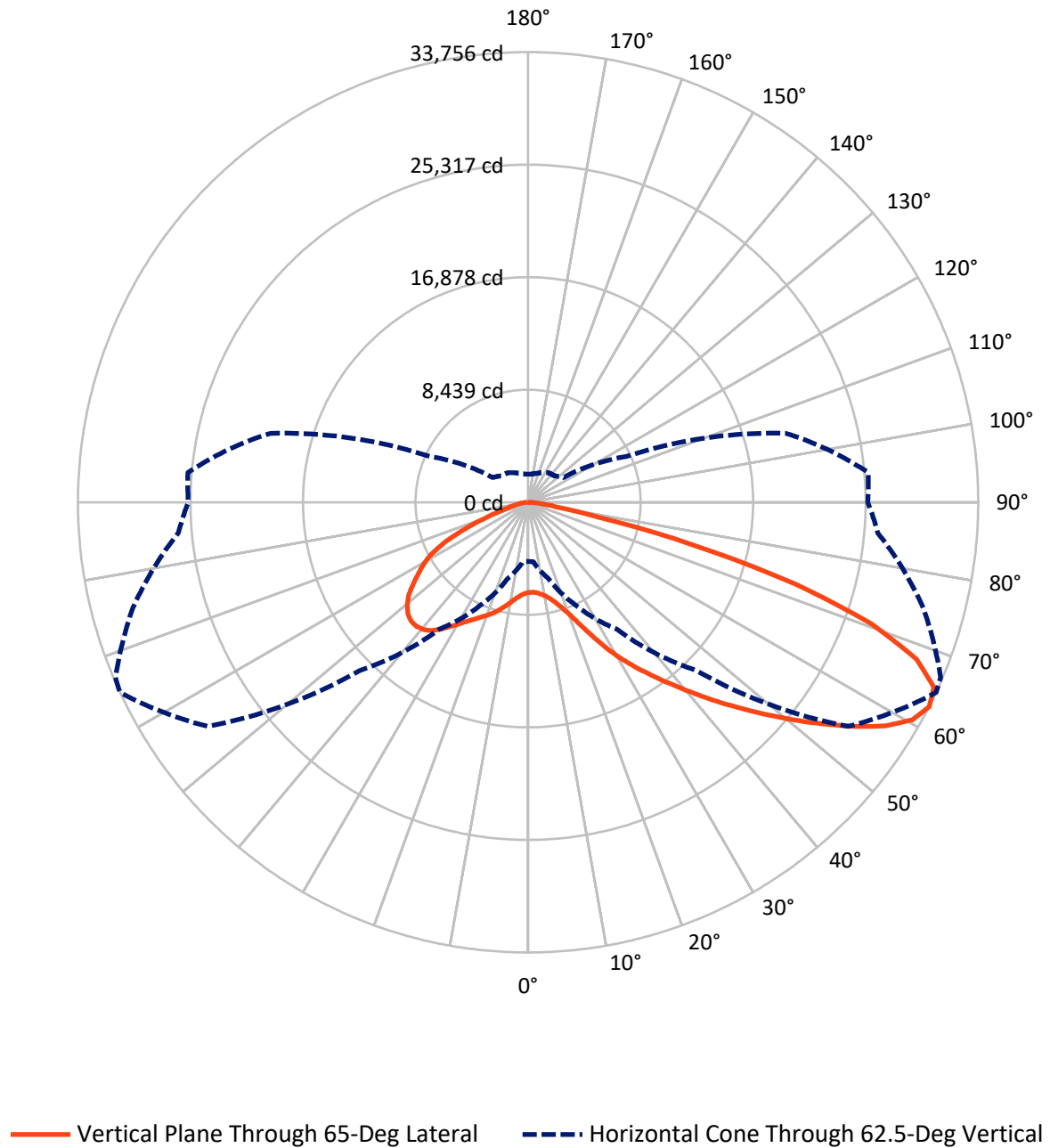


Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
Type II - Short - N/A

REPORT NUMBER: P955598

CATALOG NUMBER: GALN-SB8C-730-U-T2U

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19365.7	0.0	19365.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	42004.3	0.0	42004.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	61370.0	0.0	61370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.2	1.1
10°-20°	2286.4	3.7
20°-30°	4635.9	7.6
30°-40°	8022.3	13.1
40°-50°	12140.3	19.8
50°-60°	14233.7	23.2
60°-70°	11933.2	19.4
70°-80°	6588.1	10.7
80°-90°	855.8	1.4
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°	61370.0	100.0
0°-180°	61370.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955598

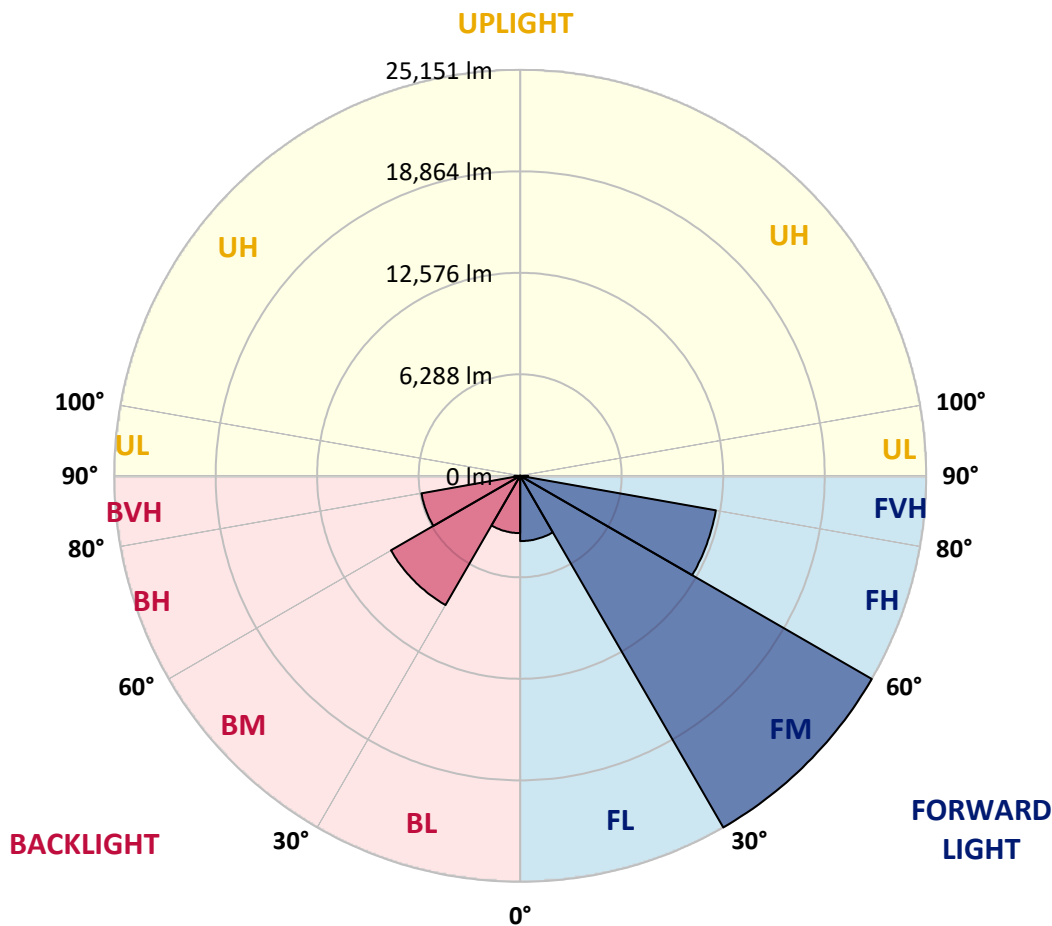
CATALOG NUMBER: GALN-SB8C-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4045.1	6.6			
FM	(30°-60°)	25151.4	41.0			
FH	(60°-80°)	12309.0	20.1			G5
FVH	(80°-90°)	498.8	0.8			G3/500
BL	(0°-30°)	3551.4	5.8	B4/5000		
BM	(30°-60°)	9244.9	15.1	B5		
BH	(60°-80°)	6212.4	10.1	B5		G5
BVH	(80°-90°)	357.0	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 Short



REPORT NUMBER: P955598

CATALOG NUMBER: GALN-SB8C-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7
2.5°	6718.1	6699.0	6714.9	6714.9	6721.3	6718.1	6740.4	6746.8	6756.3	6775.4	6775.4
5°	6651.3	6648.1	6676.7	6702.2	6727.7	6750.0	6778.6	6820.0	6826.4	6848.7	6877.3
7.5°	6629.0	6609.9	6654.5	6686.3	6746.8	6800.9	6877.3	6947.4	6976.0	6985.6	7039.7
10°	6800.9	6769.1	6810.5	6829.6	6880.5	6934.6	7023.8	7135.2	7167.1	7205.3	7265.8
12.5°	7093.8	7058.8	7119.3	7148.0	7195.7	7243.5	7304.0	7412.2	7428.2	7498.2	7555.5
15°	7495.0	7453.6	7491.8	7526.9	7606.5	7651.0	7711.5	7816.6	7816.6	7870.7	7912.1
17.5°	8039.5	7985.3	8014.0	8026.7	8077.7	8144.5	8246.4	8338.8	8386.5	8367.4	8310.1
20°	8851.4	8784.5	8784.5	8720.8	8701.7	8755.9	8889.6	9016.9	9067.9	8969.2	8829.1
22.5°	10070.8	9975.3	9921.2	9704.7	9618.7	9625.1	9758.8	9914.8	9956.2	9781.1	9465.9
25°	11621.4	11471.8	11398.5	11080.1	10885.9	10717.2	10822.2	11022.8	11080.1	10863.6	10354.2
27.5°	13172.0	13181.5	13111.5	12729.4	12407.8	12099.0	12044.9	12255.0	12315.5	12070.4	11439.9
30°	15346.6	15120.6	14986.8	14528.4	14069.9	13636.9	13414.0	13499.9	13515.9	13222.9	12490.6
32.5°	17222.0	17164.7	16878.1	16476.9	15887.9	15209.7	14837.2	14700.3	14674.8	14257.7	13388.5
35°	19358.4	19326.6	19024.1	18546.5	17909.7	16967.3	16295.5	15903.8	15872.0	15286.1	14276.8
37.5°	21529.9	21529.9	21233.8	20711.6	20052.5	18874.5	17852.4	17231.5	17129.6	16365.5	15181.1
40°	23261.9	23156.9	23211.0	22991.3	22236.7	20985.4	19581.3	18680.2	18543.3	17626.3	16142.6
42.5°	24245.8	24210.7	24535.5	24780.7	24471.8	23472.1	21485.3	20249.9	20058.9	19014.5	17250.6
45°	24465.5	24427.3	25006.7	25904.6	26337.6	25926.9	23554.9	21902.4	21670.0	20466.4	18438.2
47.5°	23959.2	23882.8	24732.9	26149.8	27538.0	28260.7	25796.4	23694.9	23357.5	21880.1	19657.7
50°	22437.3	22364.1	23650.4	25532.1	27942.3	29846.3	28228.9	25595.8	25080.0	23395.7	20889.9
52.5°	19129.2	19164.2	21179.6	23765.0	27410.6	30833.4	30323.9	27598.5	26977.6	24946.2	22045.7
55°	14900.9	14977.3	17454.4	20300.9	25283.7	30683.7	31753.5	29661.7	29044.0	26404.5	23239.6
57.5°	10669.4	11006.9	13328.0	16145.8	21198.7	28311.7	32065.6	31623.0	31024.4	27996.5	24408.2
60°	6915.5	6976.0	9364.0	12204.1	16142.6	24096.1	31431.9	33109.9	32641.8	29620.3	25385.6
62.5°	4432.1	4473.4	5928.5	8536.2	11618.2	17826.9	29298.7	33756.2	33613.0	30693.3	26324.9
65°	3257.2	3225.3	3983.1	5642.0	7826.1	10994.2	25156.4	33444.2	33727.6	31365.1	27101.8
67.5°	2719.1	2674.5	3047.0	3906.7	5766.1	6243.7	18613.4	31416.0	32454.0	31288.7	27671.7
70°	2477.1	2438.9	2665.0	2900.6	4498.9	4180.5	9383.1	27311.9	28910.3	30419.4	27579.4
72.5°	2098.2	2031.4	2340.2	2575.8	3499.2	3206.2	3878.1	20979.0	22927.6	27633.5	26280.3
75°	1627.0	1582.4	1846.7	2267.0	2629.9	2502.6	2451.6	12739.0	14865.9	21370.7	22991.3
77.5°	1289.5	1229.0	1471.0	1767.1	2365.7	1888.1	1786.2	5485.9	7593.7	13643.2	17202.9
80°	971.1	917.0	1117.6	1397.8	1818.0	1423.2	1155.8	2238.3	2862.4	6912.4	8650.8
82.5°	690.9	643.2	780.1	1025.2	1222.6	1276.8	710.0	1254.5	1410.5	2665.0	1932.7
85°	442.6	413.9	522.2	643.2	776.9	821.5	433.0	655.9	719.6	1098.5	805.5
87.5°	242.0	197.4	280.2	299.3	359.8	327.9	207.0	238.8	257.9	398.0	340.7
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: P955598

CATALOG NUMBER: GALN-SB8C-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7	6762.7
2.5°	6788.2	6797.7	6829.6	6839.1	6861.4	6890.1	6909.2	6928.3	6928.3	6947.4	6947.4
5°	6880.5	6902.8	6969.7	7004.7	7062.0	7119.3	7154.3	7195.7	7221.2	7233.9	7240.3
7.5°	7058.8	7093.8	7189.4	7249.9	7348.6	7428.2	7482.3	7539.6	7552.3	7587.4	7574.6
10°	7300.8	7342.2	7450.4	7565.1	7682.9	7781.6	7832.5	7873.9	7889.8	7896.2	7880.3
12.5°	7577.8	7638.3	7778.4	7918.5	8042.7	8128.6	8141.4	8131.8	8087.2	8049.0	8049.0
15°	7918.5	7972.6	8128.6	8281.5	8402.4	8418.4	8338.8	8287.8	8233.7	8224.1	8224.1
17.5°	8326.0	8354.7	8498.0	8647.6	8657.2	8603.0	8485.2	8437.5	8386.5	8351.5	8354.7
20°	8800.4	8790.9	8892.8	8956.4	8889.6	8724.0	8545.7	8466.1	8415.2	8373.8	8377.0
22.5°	9367.2	9293.9	9281.2	9265.3	9087.0	8739.9	8498.0	8396.1	8316.5	8259.2	8278.3
25°	10191.8	9911.6	9717.4	9609.2	9208.0	8654.0	8345.1	8119.1	7969.4	7870.7	7908.9
27.5°	11223.4	10752.2	10261.9	9997.6	9208.0	8478.9	7975.8	7609.6	7364.5	7262.6	7313.5
30°	12207.3	11713.7	10991.0	10465.6	9185.7	8192.3	7380.4	6871.0	6584.4	6482.5	6543.0
32.5°	13047.8	12509.7	11764.7	10978.3	9131.6	7727.4	6641.7	6078.2	5801.2	5680.2	5740.7
35°	13827.9	13254.8	12541.6	11541.8	8988.3	7046.1	5829.8	5400.0	5091.1	4896.9	4960.6
37.5°	14627.1	13945.7	13277.1	12051.2	8730.4	6250.1	5205.8	4839.6	4476.6	4215.5	4285.6
40°	15496.3	14681.2	14063.5	12353.7	8306.9	5492.3	4721.8	4387.5	4002.2	3725.2	3779.3
42.5°	16512.0	15563.1	14939.1	12509.7	7727.4	4954.2	4406.6	4078.6	3715.7	3489.6	3534.2
45°	17572.2	16534.2	15738.3	12506.6	7081.1	4702.7	4304.7	3979.9	3578.8	3343.1	3381.4
47.5°	18683.4	17549.9	16429.2	12302.8	6520.7	4737.7	4247.4	3766.6	3324.0	3094.8	3126.6
50°	19797.8	18661.1	17097.8	11920.7	6281.9	4661.3	4034.1	3467.3	2945.2	2738.2	2750.9
52.5°	20902.6	19842.4	17674.1	11376.3	6040.0	4377.9	3760.2	3078.9	2789.1	2645.9	2645.9
55°	22013.8	21010.9	18301.3	10583.4	5435.0	4046.8	3301.8	2932.4	2665.0	2534.4	2521.7
57.5°	23128.2	22360.9	18896.7	9790.6	4674.0	3639.3	3050.2	2754.1	2540.8	2429.4	2410.2
60°	24287.2	23905.1	19511.2	9061.5	3922.6	3117.1	2865.6	2610.8	2394.3	2270.2	2260.6
62.5°	25481.1	25605.3	19992.0	8122.3	3231.7	2798.7	2700.0	2438.9	2228.8	2111.0	2107.8
65°	26684.7	27245.1	20307.2	6820.0	2620.4	2496.2	2521.7	2251.1	2037.7	1935.8	1932.7
67.5°	27592.1	28426.3	20218.1	5161.2	2149.2	2209.7	2298.8	2053.6	1853.1	1773.5	1776.6
70°	27694.0	28286.2	19339.3	3534.2	1798.9	1929.5	2050.5	1859.4	1652.5	1595.2	1598.3
72.5°	26337.6	26375.8	16890.8	2308.4	1521.9	1693.9	1789.4	1662.0	1461.4	1404.1	1400.9
75°	22781.2	21813.2	12401.5	1521.9	1273.6	1455.1	1544.2	1455.1	1260.8	1273.6	1229.0
77.5°	17260.2	15448.5	7530.0	1082.5	1063.4	1222.6	1343.6	1279.9	1114.4	1251.3	1101.6
80°	8892.8	8357.9	3359.1	808.7	840.6	977.5	1104.8	1022.0	882.0	840.6	767.3
82.5°	2037.7	2368.9	1324.5	579.5	608.1	703.7	843.7	767.3	633.6	534.9	528.5
85°	713.2	780.1	585.8	363.0	356.6	439.4	573.1	512.6	429.8	343.9	363.0
87.5°	226.1	296.1	219.7	146.5	152.8	197.4	264.3	242.0	200.6	130.5	136.9
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)