

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: P953099

Luminaire Tested: **GALN-SB6D-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953099
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-SB6D-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62535 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - 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

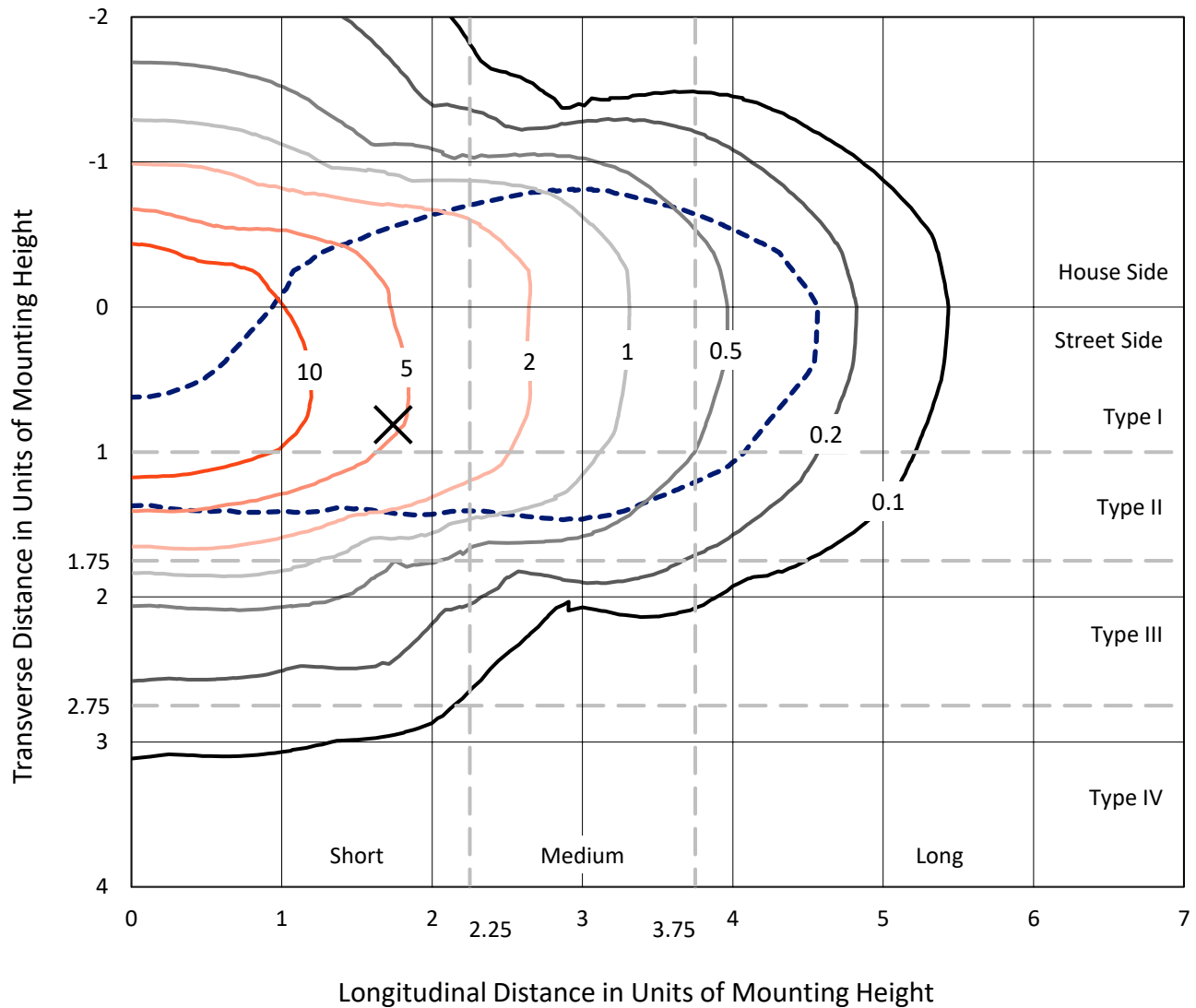


REPORT NUMBER: P953099

CATALOG NUMBER: GALN-SB6D-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

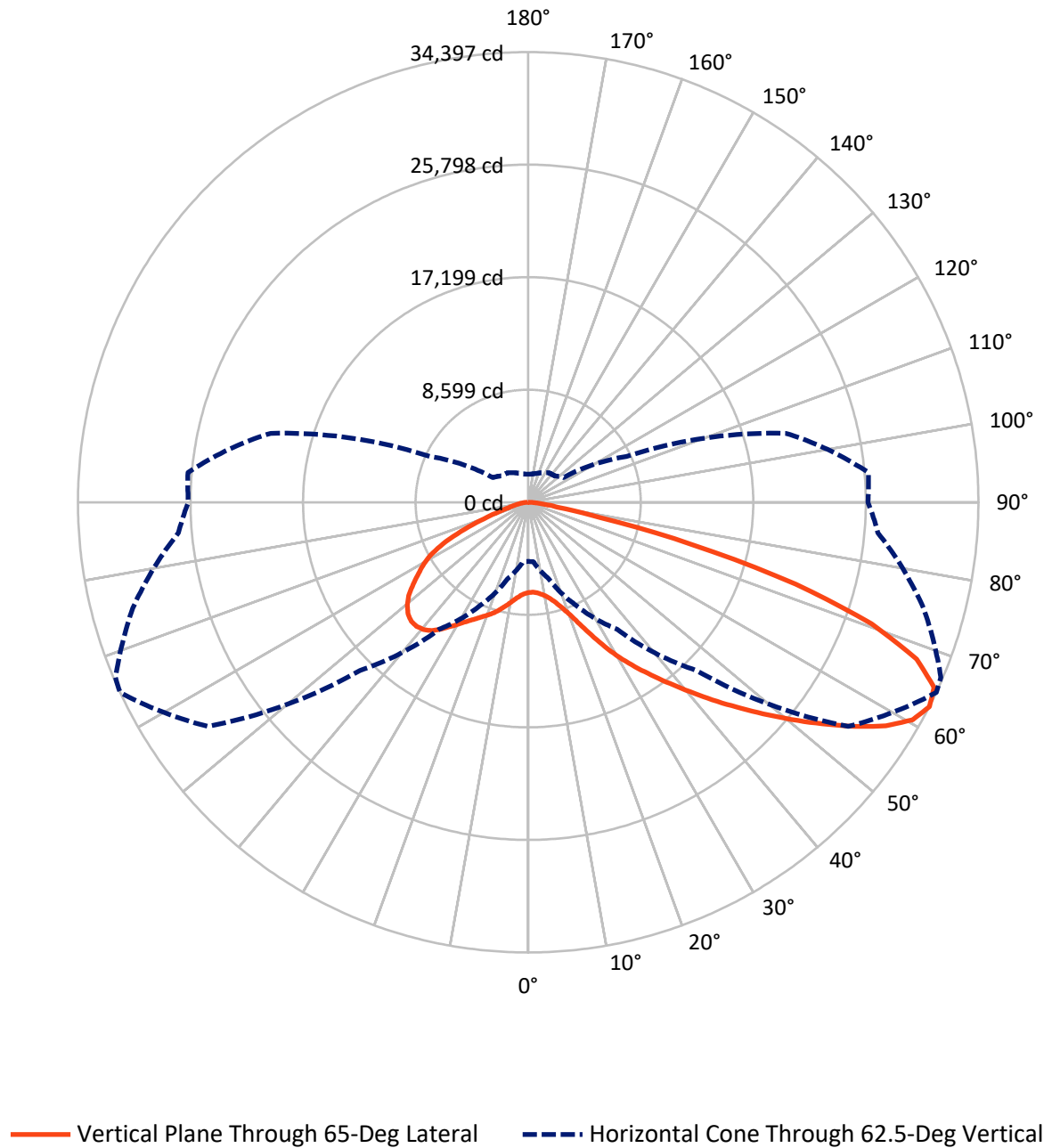


Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
Type II - Short - N/A

REPORT NUMBER: P953099

CATALOG NUMBER: GALN-SB6D-730-U-T2U

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19733.3	0.0	19733.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	42801.7	0.0	42801.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	62535.0	0.0	62535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.0	1.1
10°-20°	2329.8	3.7
20°-30°	4723.9	7.6
30°-40°	8174.6	13.1
40°-50°	12370.7	19.8
50°-60°	14503.9	23.2
60°-70°	12159.8	19.4
70°-80°	6713.2	10.7
80°-90°	872.0	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°	62535.0	100.0
0°-180°	62535.0	100.0

Coefficient of Utilization



REPORT NUMBER: P953099

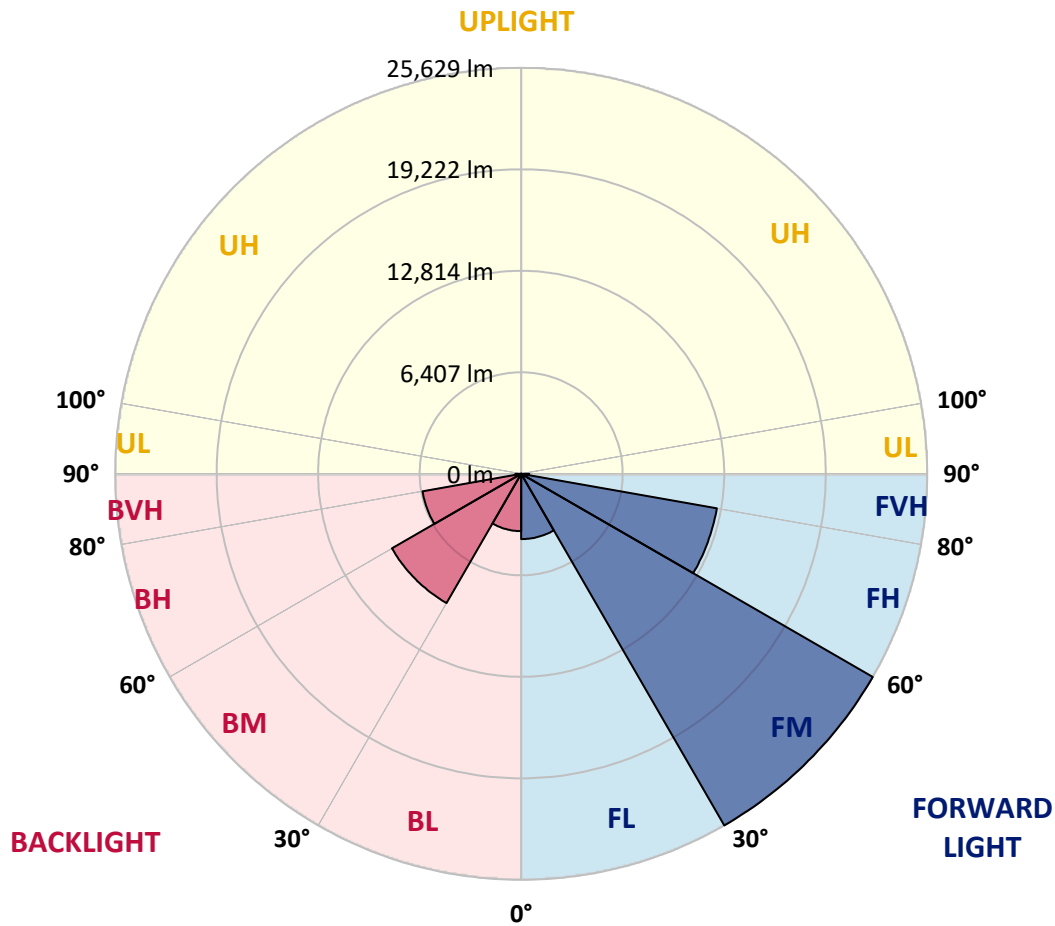
CATALOG NUMBER: GALN-SB6D-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4121.9	6.6			
FM	(30°-60°)	25628.9	41.0			
FH	(60°-80°)	12542.7	20.1			G5
FVH	(80°-90°)	508.2	0.8			G4/750
BL	(0°-30°)	3618.9	5.8	B4/5000		
BM	(30°-60°)	9420.4	15.1	B5		
BH	(60°-80°)	6330.3	10.1	B5		G5
BVH	(80°-90°)	363.8	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: P953099

CATALOG NUMBER: GALN-SB6D-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1
2.5°	6845.7	6826.2	6842.4	6842.4	6848.9	6845.7	6868.4	6874.9	6884.6	6904.1	6904.1
5°	6777.5	6774.3	6803.5	6829.4	6855.4	6878.1	6907.3	6949.5	6956.0	6978.7	7007.9
7.5°	6754.8	6735.4	6780.8	6813.2	6874.9	6930.0	7007.9	7079.3	7108.5	7118.2	7173.3
10°	6930.0	6897.6	6939.8	6959.2	7011.1	7066.3	7157.1	7270.7	7303.1	7342.1	7403.7
12.5°	7228.5	7192.8	7254.5	7283.7	7332.3	7381.0	7442.6	7552.9	7569.2	7640.5	7698.9
15°	7637.3	7595.1	7634.1	7669.7	7750.8	7796.3	7857.9	7965.0	7965.0	8020.1	8062.3
17.5°	8192.1	8136.9	8166.1	8179.1	8231.0	8299.2	8403.0	8497.1	8545.7	8526.3	8467.9
20°	9019.4	8951.3	8951.3	8886.4	8866.9	8922.1	9058.3	9188.1	9240.0	9139.4	8996.7
22.5°	10262.0	10164.7	10109.5	9888.9	9801.3	9807.8	9944.1	10103.0	10145.2	9966.8	9645.6
25°	11842.0	11689.5	11614.9	11290.5	11092.6	10920.6	11027.7	11232.1	11290.5	11069.9	10550.8
27.5°	13422.0	13431.8	13360.4	12971.1	12643.4	12328.7	12273.5	12487.7	12549.3	12299.5	11657.1
30°	15638.0	15407.6	15271.3	14804.2	14337.0	13895.7	13668.6	13756.2	13772.4	13474.0	12727.7
32.5°	17548.9	17490.5	17198.5	16789.7	16189.5	15498.5	15118.9	14979.4	14953.4	14528.4	13642.7
35°	19725.9	19693.5	19385.2	18898.6	18249.7	17289.4	16604.8	16205.7	16173.3	15576.3	14547.8
37.5°	21938.6	21938.6	21636.8	21104.8	20433.2	19232.7	18191.3	17558.6	17454.8	16676.2	15469.3
40°	23703.5	23596.5	23651.6	23427.7	22658.8	21383.8	19953.0	19034.8	18895.3	17960.9	16449.1
42.5°	24706.0	24670.3	25001.3	25251.1	24936.4	23917.6	21893.1	20634.3	20439.7	19375.5	17578.1
45°	24929.9	24891.0	25481.4	26396.4	26837.6	26419.1	24002.0	22318.2	22081.3	20854.9	18788.3
47.5°	24414.0	24336.2	25202.4	26646.2	28060.7	28797.2	26286.1	24144.8	23800.9	22295.5	20030.9
50°	22863.2	22788.6	24099.3	26016.8	28472.8	30412.9	28764.8	26081.7	25556.1	23839.8	21286.4
52.5°	19492.3	19528.0	21581.7	24216.1	27931.0	31418.7	30899.6	28122.4	27489.7	25419.8	22464.2
55°	15183.7	15261.6	17785.7	20686.2	25763.7	31266.2	32356.3	30224.7	29595.3	26905.7	23680.8
57.5°	10872.0	11215.9	13581.0	16452.3	21601.2	28849.1	32674.3	32223.3	31613.3	28527.9	24871.5
60°	7046.8	7108.5	9541.8	12435.7	16449.1	24553.5	32028.6	33738.4	33261.5	30182.6	25867.5
62.5°	4516.2	4558.4	6041.1	8698.2	11838.8	18165.3	29854.9	34397.0	34251.0	31275.9	26824.6
65°	3319.0	3286.6	4058.7	5749.1	7974.7	11202.9	25633.9	34079.1	34367.8	31960.5	27616.3
67.5°	2770.7	2725.3	3104.9	3980.9	5875.6	6362.3	18966.7	32012.4	33070.1	31882.6	28197.0
70°	2524.1	2485.2	2715.6	2955.6	4584.3	4259.9	9561.2	27830.4	29459.1	30996.9	28102.9
72.5°	2138.1	2069.9	2384.6	2624.7	3565.6	3267.1	3951.7	21377.3	23362.9	28158.1	26779.2
75°	1657.9	1612.5	1881.7	2310.0	2679.9	2550.1	2498.2	12980.8	15148.1	21776.4	23427.7
77.5°	1314.0	1252.3	1498.9	1800.6	2410.6	1923.9	1820.1	5590.1	7737.9	13902.2	17529.4
80°	989.5	934.4	1138.8	1424.3	1852.5	1450.2	1177.7	2280.8	2916.7	7043.6	8815.0
82.5°	704.0	655.4	794.9	1044.7	1245.8	1301.0	723.5	1278.3	1437.3	2715.6	1969.3
85°	451.0	421.8	532.1	655.4	791.6	837.1	441.2	668.3	733.2	1119.3	820.8
87.5°	246.6	201.2	285.5	305.0	366.6	334.2	210.9	243.3	262.8	405.5	347.1
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: P953099

CATALOG NUMBER: GALN-SB6D-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1
2.5°	6917.0	6926.8	6959.2	6969.0	6991.7	7020.9	7040.3	7059.8	7059.8	7079.3	7079.3
5°	7011.1	7033.8	7102.0	7137.7	7196.1	7254.5	7290.1	7332.3	7358.3	7371.3	7377.7
7.5°	7192.8	7228.5	7325.8	7387.5	7488.1	7569.2	7624.3	7682.7	7695.7	7731.4	7718.4
10°	7439.4	7481.6	7591.9	7708.7	7828.7	7929.3	7981.2	8023.4	8039.6	8046.1	8029.9
12.5°	7721.6	7783.3	7926.0	8068.8	8195.3	8282.9	8295.9	8286.2	8240.8	8201.8	8201.8
15°	8068.8	8124.0	8282.9	8438.7	8561.9	8578.2	8497.1	8445.1	8390.0	8380.3	8380.3
17.5°	8484.1	8513.3	8659.3	8811.8	8821.5	8766.3	8646.3	8597.6	8545.7	8510.0	8513.3
20°	8967.5	8957.8	9061.6	9126.5	9058.3	8889.6	8707.9	8626.8	8574.9	8532.7	8536.0
22.5°	9545.0	9470.4	9457.4	9441.2	9259.5	8905.9	8659.3	8555.5	8474.3	8415.9	8435.4
25°	10385.3	10099.8	9901.9	9791.6	9382.8	8818.3	8503.5	8273.2	8120.7	8020.1	8059.1
27.5°	11436.5	10956.3	10456.7	10187.4	9382.8	8639.8	8127.2	7754.1	7504.3	7400.5	7452.4
30°	12439.0	11936.1	11199.6	10664.3	9360.1	8347.8	7520.5	7001.4	6709.4	6605.6	6667.2
32.5°	13295.5	12747.2	11988.0	11186.7	9304.9	7874.1	6767.8	6193.5	5911.3	5788.0	5849.6
35°	14090.4	13506.4	12779.7	11760.9	9158.9	7179.8	5940.5	5502.5	5187.8	4989.9	5054.8
37.5°	14904.7	14210.4	13529.1	12280.0	8896.1	6368.7	5304.6	4931.5	4561.6	4295.6	4366.9
40°	15790.4	14959.9	14330.5	12588.2	8464.6	5596.6	4811.4	4470.8	4078.2	3795.9	3851.1
42.5°	16825.4	15858.6	15222.7	12747.2	7874.1	5048.3	4490.2	4156.1	3786.2	3555.9	3601.3
45°	17905.8	16848.1	16037.0	12744.0	7215.5	4792.0	4386.4	4055.5	3646.7	3406.6	3445.5
47.5°	19038.1	17883.1	16741.1	12536.3	6644.5	4827.7	4328.0	3838.1	3387.1	3153.5	3186.0
50°	20173.6	19015.4	17422.4	12147.0	6401.2	4749.8	4110.6	3533.1	3001.1	2790.2	2803.2
52.5°	21299.4	20219.0	18009.6	11592.2	6154.6	4461.0	3831.6	3137.3	2842.1	2696.1	2696.1
55°	22431.7	21409.7	18648.8	10784.4	5538.2	4123.6	3364.4	2988.1	2715.6	2582.5	2569.6
57.5°	23567.3	22785.4	19255.5	9976.5	4762.8	3708.3	3108.1	2806.4	2589.0	2475.5	2456.0
60°	24748.2	24358.9	19881.6	9233.5	3997.1	3176.3	2920.0	2660.4	2439.8	2313.3	2303.5
62.5°	25964.9	26091.4	20371.5	8276.4	3293.1	2851.8	2751.2	2485.2	2271.1	2151.0	2147.8
65°	27191.2	27762.3	20692.7	6949.5	2670.1	2543.6	2569.6	2293.8	2076.4	1972.6	1969.3
67.5°	28115.9	28965.9	20601.9	5259.2	2190.0	2251.6	2342.5	2092.6	1888.2	1807.1	1810.4
70°	28219.7	28823.2	19706.4	3601.3	1833.1	1966.1	2089.4	1894.7	1683.8	1625.4	1628.7
72.5°	26837.6	26876.5	17211.5	2352.2	1550.8	1726.0	1823.3	1693.6	1489.2	1430.8	1427.5
75°	23213.6	22227.3	12636.9	1550.8	1297.8	1482.7	1573.5	1482.7	1284.8	1297.8	1252.3
77.5°	17587.8	15741.8	7673.0	1103.1	1083.6	1245.8	1369.1	1304.2	1135.5	1275.0	1122.6
80°	9061.6	8516.5	3422.8	824.1	856.5	996.0	1125.8	1041.4	898.7	856.5	781.9
82.5°	2076.4	2413.8	1349.7	590.5	619.7	717.0	859.8	781.9	645.6	545.1	538.6
85°	726.7	794.9	597.0	369.9	363.4	447.7	584.0	522.3	438.0	350.4	369.9
87.5°	230.4	301.7	223.9	149.2	155.7	201.2	269.3	246.6	204.4	133.0	139.5
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)