

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: P531611

Luminaire Tested: **GALN-SA6D-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21277 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 368
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



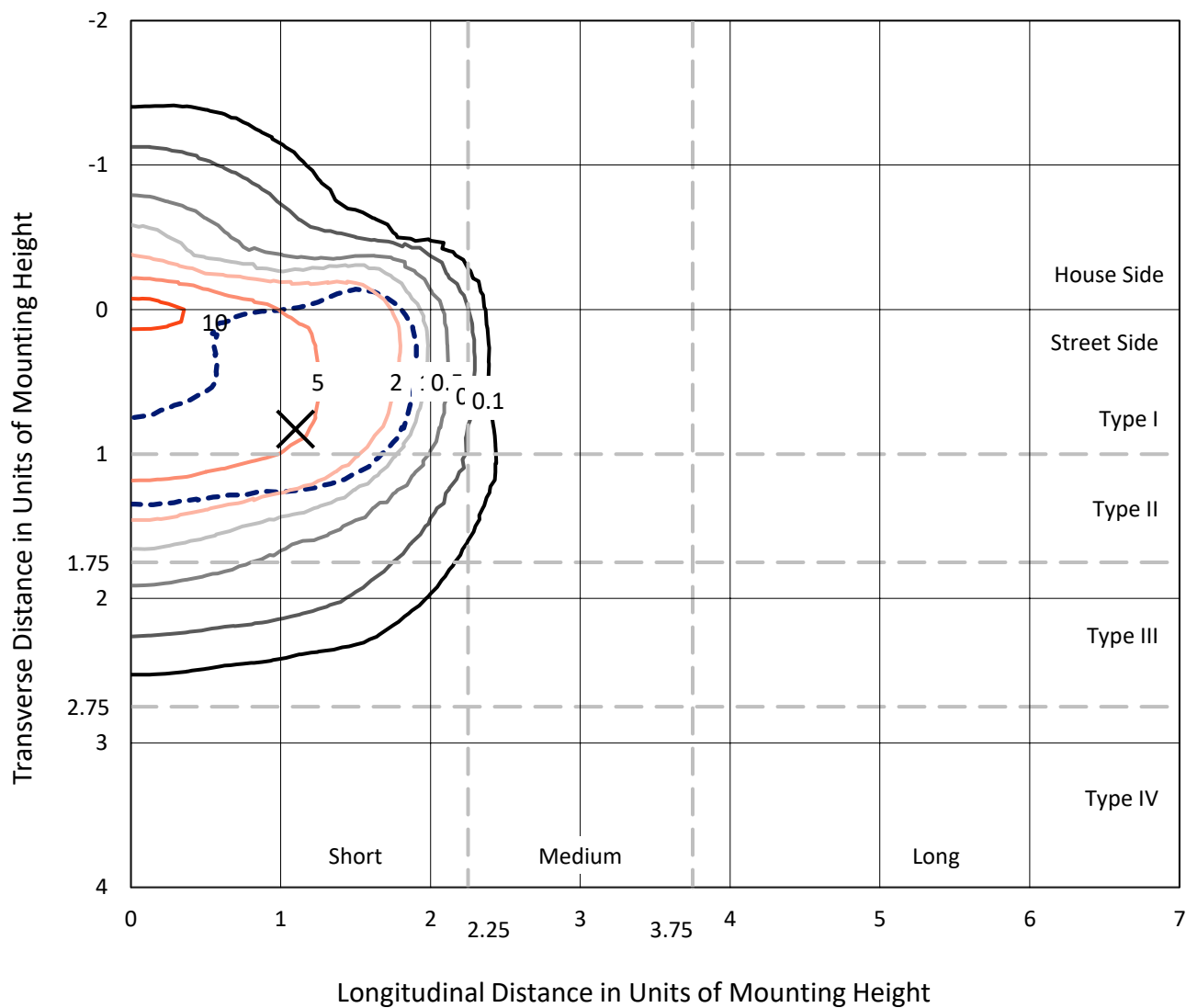
REPORT NUMBER: P531611

CATALOG NUMBER: GALN-SA6D-830-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

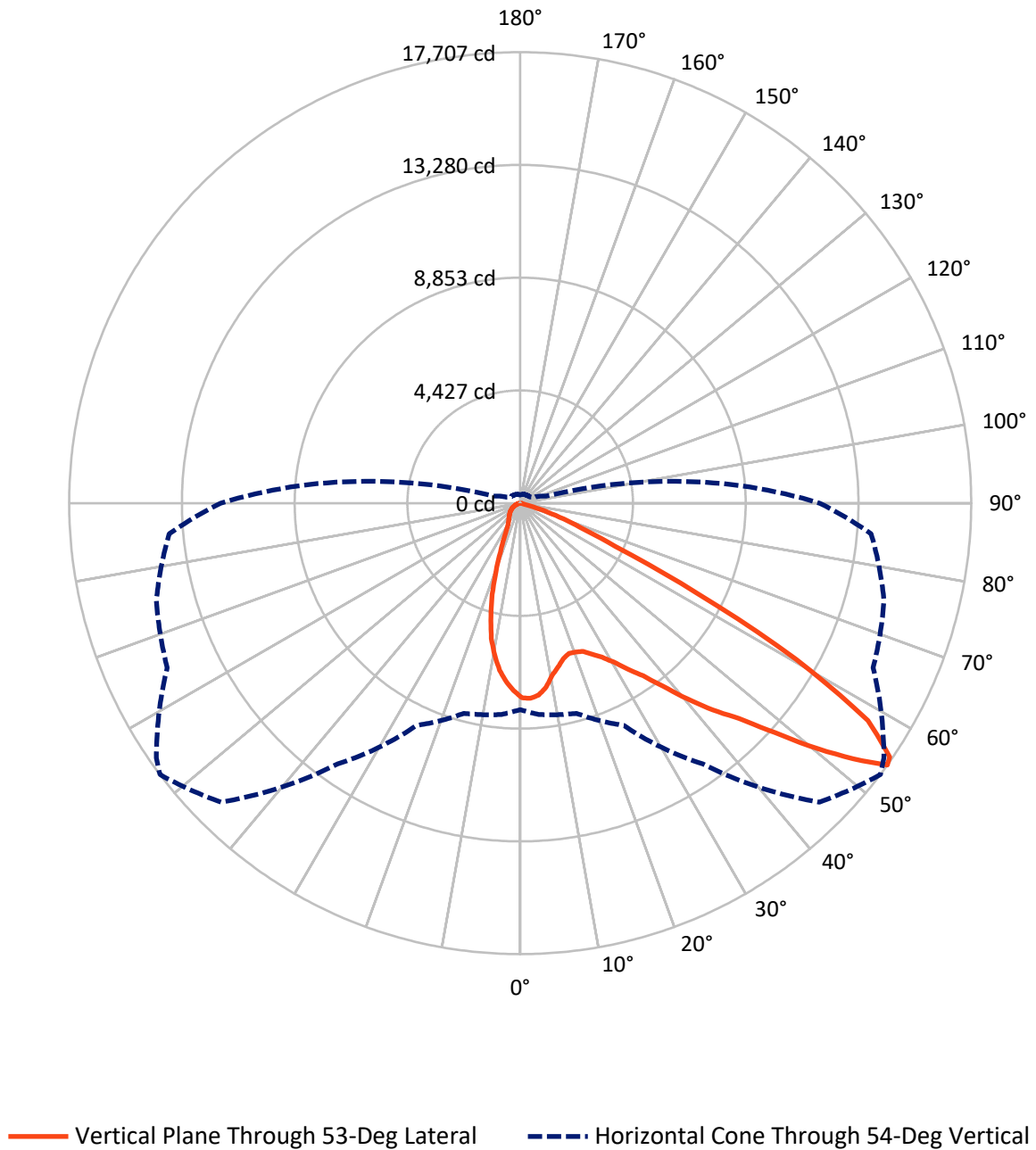


Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

REPORT NUMBER: P531611

CATALOG NUMBER: GALN-SA6D-830-U-SL2-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P531611

CATALOG NUMBER: GALN-SA6D-830-U-SL2-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3520.3	0.0	3520.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17756.7	0.0	17756.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	21277.0	0.0	21277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.7	3.1
10°-20°	1503.3	7.1
20°-30°	2136.5	10.0
30°-40°	3297.2	15.5
40°-50°	5169.7	24.3
50°-60°	6005.3	28.2
60°-70°	2269.2	10.7
70°-80°	215.8	1.0
80°-90°	24.3	0.1
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°	21277.0	100.0
0°-180°	21277.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531611

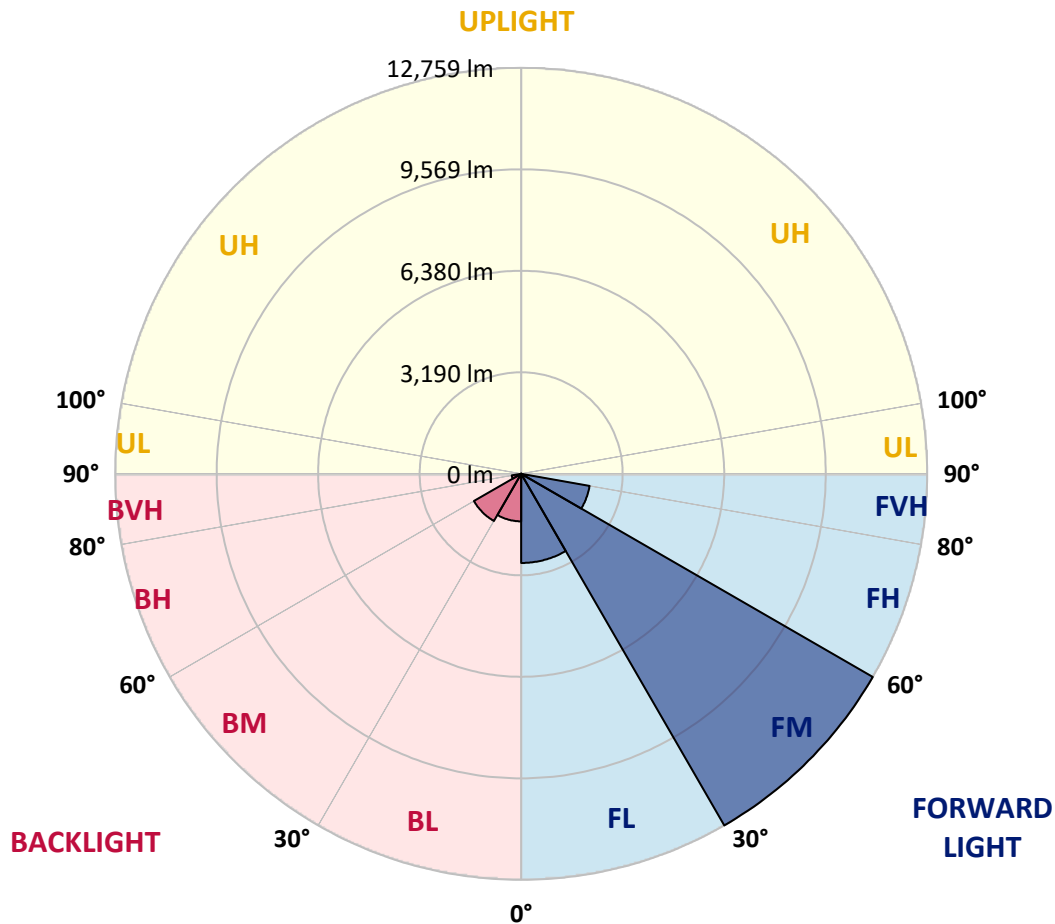
CATALOG NUMBER: GALN-SA6D-830-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2801.6	13.2			
FM	(30°-60°)	12759.1	60.0			
FH	(60°-80°)	2183.3	10.3			G2/5000
FVH	(80°-90°)	12.5	0.1			G1/100
BL	(0°-30°)	1493.9	7.0	B3/2500		
BM	(30°-60°)	1713.1	8.1	B2/2500		
BH	(60°-80°)	301.6	1.4	B1/500		G1/500
BVH	(80°-90°)	11.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



REPORT NUMBER: P531611

CATALOG NUMBER: GALN-SA6D-830-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3
2.5°	7602.7	7535.3	7602.7	7610.6	7658.2	7701.8	7674.1	7737.5	7701.8	7662.2	7650.3
5°	6988.3	7079.5	7083.4	7226.1	7194.4	7456.0	7571.0	7539.3	7733.5	7721.6	7693.9
7.5°	6437.3	6401.6	6449.2	6615.7	6825.8	7127.0	7293.5	7289.6	7567.0	7765.2	7745.4
10°	5926.0	5922.0	6021.1	6151.9	6330.3	6647.4	6877.3	6992.3	7424.3	7725.6	7769.2
12.5°	5581.1	5565.3	5672.3	5779.3	6060.8	6306.5	6599.8	6655.3	7150.8	7586.8	7658.2
15°	5355.2	5390.9	5398.8	5604.9	5783.3	6108.3	6338.2	6453.2	7024.0	7475.9	7749.4
17.5°	5315.5	5363.1	5367.1	5537.5	5727.8	6001.3	6203.5	6358.0	6917.0	7531.4	7753.3
20°	5394.8	5367.1	5390.9	5497.9	5684.2	5945.8	6239.1	6290.7	6881.3	7559.1	7796.9
22.5°	5620.8	5612.8	5553.4	5640.6	5771.4	6044.9	6322.4	6401.6	6984.3	7701.8	7832.6
25°	5870.5	5914.1	5858.6	5846.7	5937.9	6207.4	6576.1	6679.1	7329.2	7959.4	7943.6
27.5°	6338.2	6294.6	6294.6	6239.1	6215.3	6346.2	6849.6	7020.0	7713.7	8292.4	8070.4
30°	6786.1	6833.7	6798.0	6817.9	6659.3	6647.4	7238.0	7448.1	8395.5	8799.8	8340.0
32.5°	7495.7	7432.3	7491.7	7440.2	7230.1	7016.0	7765.2	7983.2	9220.0	9382.5	8744.3
35°	8086.3	8058.5	8312.2	8304.3	7963.4	7753.3	8324.1	8649.2	9794.7	10080.1	9220.0
37.5°	8926.6	8875.1	9164.5	9303.2	8998.0	8684.8	9124.8	9501.4	10329.8	10639.0	9707.5
40°	9790.8	9921.6	10310.0	10539.9	10214.9	9798.7	10103.9	10218.9	10686.6	11003.7	10040.5
42.5°	10884.8	11075.1	11471.4	11669.6	11641.9	11190.0	11098.8	11094.9	10944.2	10900.6	10286.2
45°	11935.2	11863.9	12474.3	12906.4	13255.2	13124.4	12058.1	11939.2	11352.5	11055.2	10349.7
47.5°	12395.0	12371.2	12787.4	13556.4	14745.6	14908.1	13453.4	12993.6	12042.2	11705.3	10694.5
50°	11800.4	11923.3	12335.6	13187.8	15011.2	16251.9	15165.8	14547.4	12846.9	12498.1	11511.1
52.5°	9858.1	9941.4	10333.8	11415.9	14107.4	17044.6	16806.8	16450.1	14325.4	13746.7	12934.1
54°	8106.1	8328.1	8542.1	9628.2	12498.1	16604.6	17706.6	17433.1	15288.6	14785.2	13829.9
55°	7059.7	7190.5	7345.0	8427.2	11384.2	15859.4	17603.5	17627.3	15934.8	15110.3	14432.4
57.5°	5157.0	5248.2	5089.6	5569.2	7816.7	12878.6	16101.2	16743.4	16806.8	15597.8	14801.1
60°	3940.1	3979.7	3801.4	3876.7	4859.7	8839.4	12454.5	13227.4	15161.8	13631.7	12537.7
62.5°	3056.1	3064.1	3060.1	3190.9	3349.5	5200.6	7789.0	8474.8	10452.7	9679.8	8514.4
65°	2251.5	2215.8	2279.2	2675.6	2857.9	3270.2	4102.6	4602.1	5680.2	4796.3	3428.7
67.5°	1458.7	1470.6	1534.0	1989.9	2449.7	2509.1	2525.0	2485.3	2489.3	1371.5	860.2
70°	876.0	895.8	876.0	1125.7	1752.0	1799.6	1645.0	1605.4	1252.6	325.0	321.1
72.5°	519.3	491.5	440.0	483.6	729.4	872.1	784.8	780.9	491.5	190.3	190.3
75°	218.0	198.2	162.5	146.7	194.2	186.3	186.3	166.5	130.8	126.8	118.9
77.5°	43.6	43.6	31.7	35.7	47.6	55.5	67.4	67.4	79.3	79.3	75.3
80°	0.0	4.0	11.9	23.8	35.7	51.5	59.5	59.5	67.4	67.4	55.5
82.5°	0.0	4.0	11.9	23.8	31.7	47.6	59.5	59.5	67.4	71.3	59.5
85°	0.0	4.0	11.9	19.8	31.7	39.6	39.6	35.7	27.7	23.8	15.9
87.5°	0.0	0.0	4.0	7.9	4.0	7.9	7.9	7.9	7.9	7.9	7.9
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: P531611

CATALOG NUMBER: GALN-SA6D-830-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3	7642.3
2.5°	7678.0	7674.1	7578.9	7424.3	7388.7	7257.8	7242.0	7162.7	7206.3	7059.7	7043.8
5°	7614.6	7567.0	7452.1	7353.0	7063.6	6857.5	6695.0	6496.8	6381.8	6401.6	6326.3
7.5°	7705.8	7582.9	7380.7	7035.9	6683.1	6322.4	6128.1	5723.8	5577.2	5359.2	5327.4
10°	7610.6	7519.5	7206.3	6635.5	6148.0	5628.7	5172.8	4724.9	4384.0	4237.4	4205.7
12.5°	7602.7	7444.1	6920.9	6286.7	5581.1	4835.9	4174.0	3615.0	3278.1	3087.9	3044.3
15°	7479.8	7289.6	6599.8	5747.6	4772.5	3845.0	3123.5	2584.4	2326.8	2215.8	2247.5
17.5°	7491.7	7206.3	6278.8	5176.8	3975.8	2822.3	2132.6	1855.1	1787.7	1815.5	1815.5
20°	7479.8	7020.0	5890.3	4518.8	3044.3	1958.2	1565.7	1466.6	1510.2	1597.4	1577.6
22.5°	7416.4	6932.8	5533.6	3825.1	2239.6	1450.8	1256.5	1260.5	1327.9	1434.9	1458.7
25°	7464.0	6738.6	5081.7	3123.5	1633.1	1157.4	1090.1	1117.8	1189.2	1268.4	1284.3
27.5°	7428.3	6599.8	4610.0	2425.9	1193.1	994.9	991.0	1022.7	1054.4	1113.8	1113.8
30°	7467.9	6473.0	4146.2	1803.6	983.0	911.7	895.8	919.6	951.3	963.2	959.3
32.5°	7614.6	6377.9	3611.1	1347.7	868.1	832.4	832.4	832.4	828.4	844.3	848.3
35°	7935.7	6393.7	3139.4	1042.5	792.8	765.0	753.1	737.3	729.4	737.3	741.2
37.5°	8284.5	6385.8	2651.8	887.9	737.3	713.5	685.7	662.0	658.0	665.9	654.0
40°	8439.1	6461.1	2199.9	796.7	685.7	658.0	614.4	594.6	598.5	606.5	598.5
42.5°	8649.2	6484.9	1906.6	725.4	638.2	594.6	566.8	543.1	539.1	551.0	547.0
45°	8645.2	6350.1	1597.4	685.7	594.6	547.0	511.3	491.5	491.5	499.4	503.4
47.5°	8898.9	6330.3	1371.5	650.1	562.9	515.3	471.7	455.8	451.9	451.9	444.0
50°	9489.5	6607.8	1197.1	610.4	523.2	479.6	444.0	424.1	408.3	400.4	396.4
52.5°	10643.0	7471.9	1062.3	562.9	479.6	444.0	412.2	396.4	376.6	356.7	352.8
54°	11760.8	8363.8	1054.4	523.2	444.0	420.2	392.4	384.5	360.7	333.0	325.0
55°	12264.2	8883.0	1082.1	491.5	420.2	404.3	380.5	372.6	348.8	317.1	313.1
57.5°	12680.4	9085.2	1066.3	408.3	380.5	376.6	356.7	344.9	317.1	273.5	265.6
60°	10207.0	6869.4	765.0	360.7	348.8	340.9	325.0	317.1	281.4	233.9	229.9
62.5°	6449.2	3952.0	487.6	317.1	305.2	293.3	273.5	265.6	233.9	186.3	174.4
65°	2747.0	1637.1	329.0	281.4	261.6	241.8	225.9	214.0	186.3	138.7	134.8
67.5°	713.5	582.7	273.5	245.8	218.0	190.3	178.4	158.6	126.8	95.1	91.2
70°	321.1	293.3	229.9	206.1	174.4	146.7	130.8	111.0	83.2	63.4	59.5
72.5°	190.3	186.3	174.4	154.6	130.8	111.0	95.1	75.3	55.5	35.7	35.7
75°	118.9	115.0	118.9	107.0	91.2	83.2	71.3	51.5	31.7	15.9	15.9
77.5°	71.3	71.3	71.3	67.4	63.4	63.4	51.5	31.7	15.9	4.0	4.0
80°	55.5	55.5	59.5	55.5	55.5	55.5	43.6	23.8	7.9	0.0	0.0
82.5°	55.5	59.5	67.4	63.4	55.5	47.6	39.6	23.8	7.9	0.0	0.0
85°	15.9	11.9	19.8	27.7	39.6	35.7	27.7	19.8	7.9	0.0	0.0
87.5°	7.9	7.9	7.9	7.9	4.0	4.0	4.0	4.0	4.0	0.0	0.0
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)