

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: P533483

Luminaire Tested: **GALN-SA8D-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533483
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-SA8D-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 28974 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 493
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



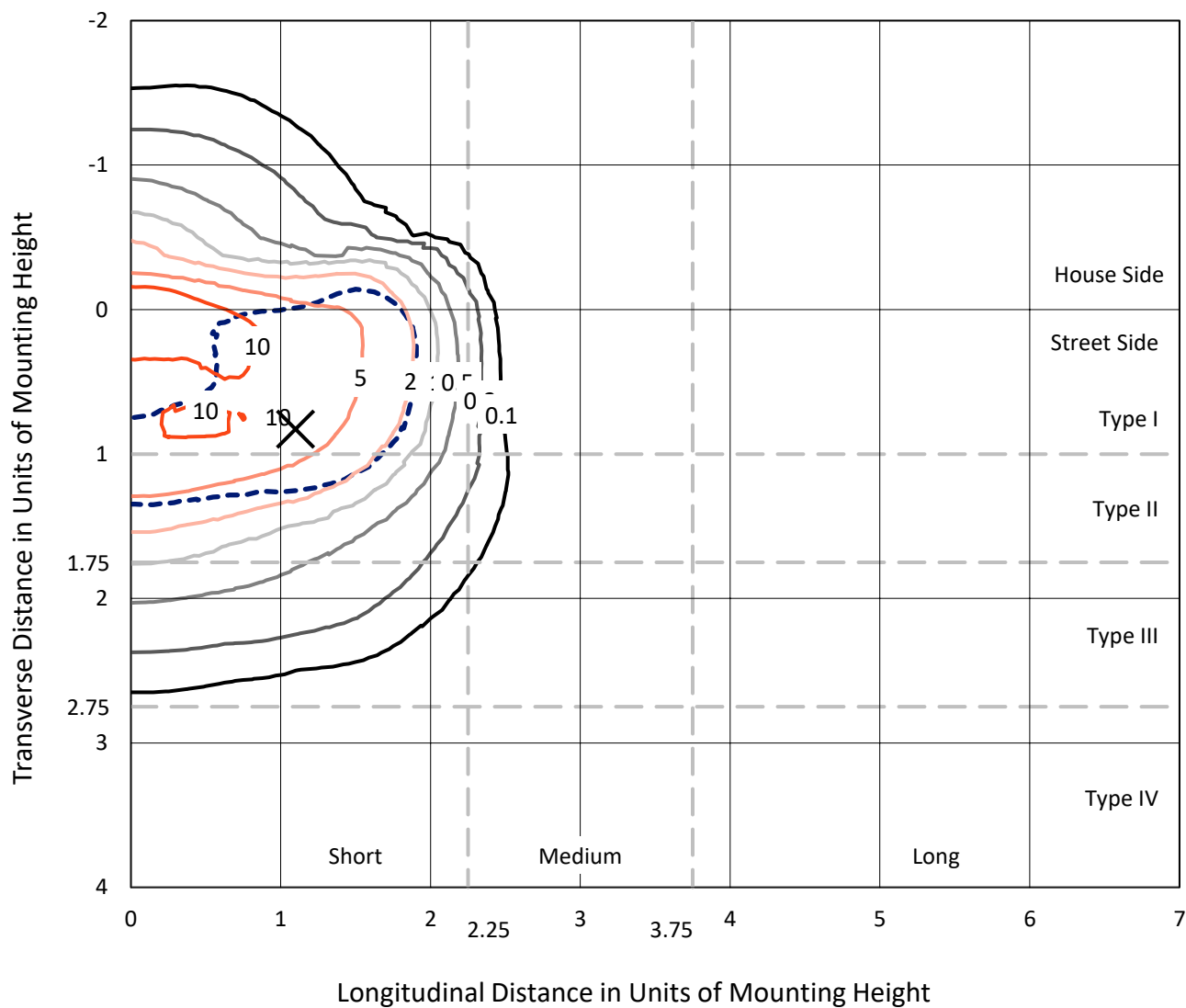
REPORT NUMBER: P533483

CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

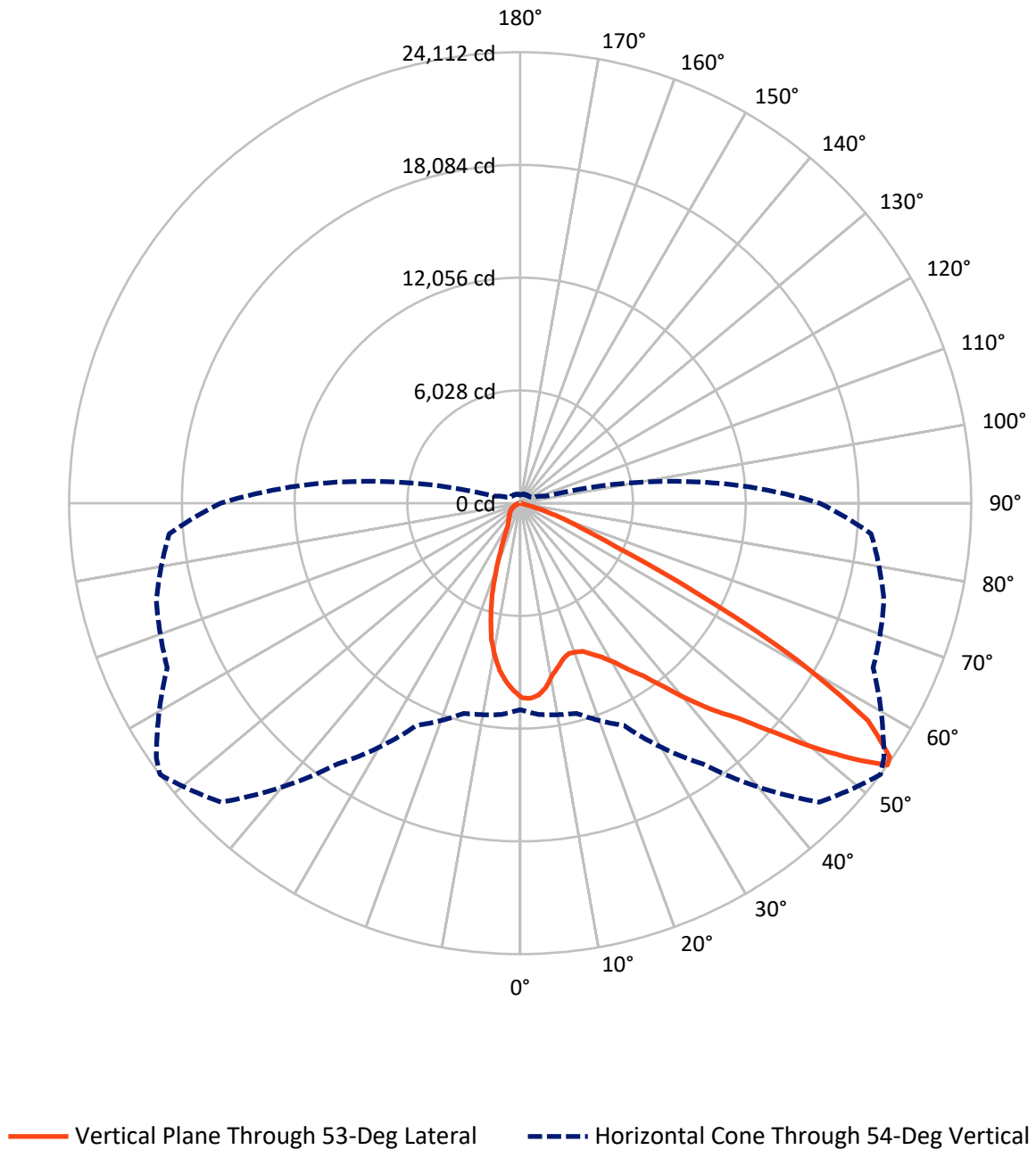


Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - N/A

REPORT NUMBER: P533483

CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P533483

CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4793.8	0.0	4793.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24180.2	0.0	24180.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	28974.0	0.0	28974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.9	3.1
10°-20°	2047.1	7.1
20°-30°	2909.4	10.0
30°-40°	4490.0	15.5
40°-50°	7039.9	24.3
50°-60°	8177.8	28.2
60°-70°	3090.1	10.7
70°-80°	293.8	1.0
80°-90°	33.1	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°	28974.0	100.0
0°-180°	28974.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533483

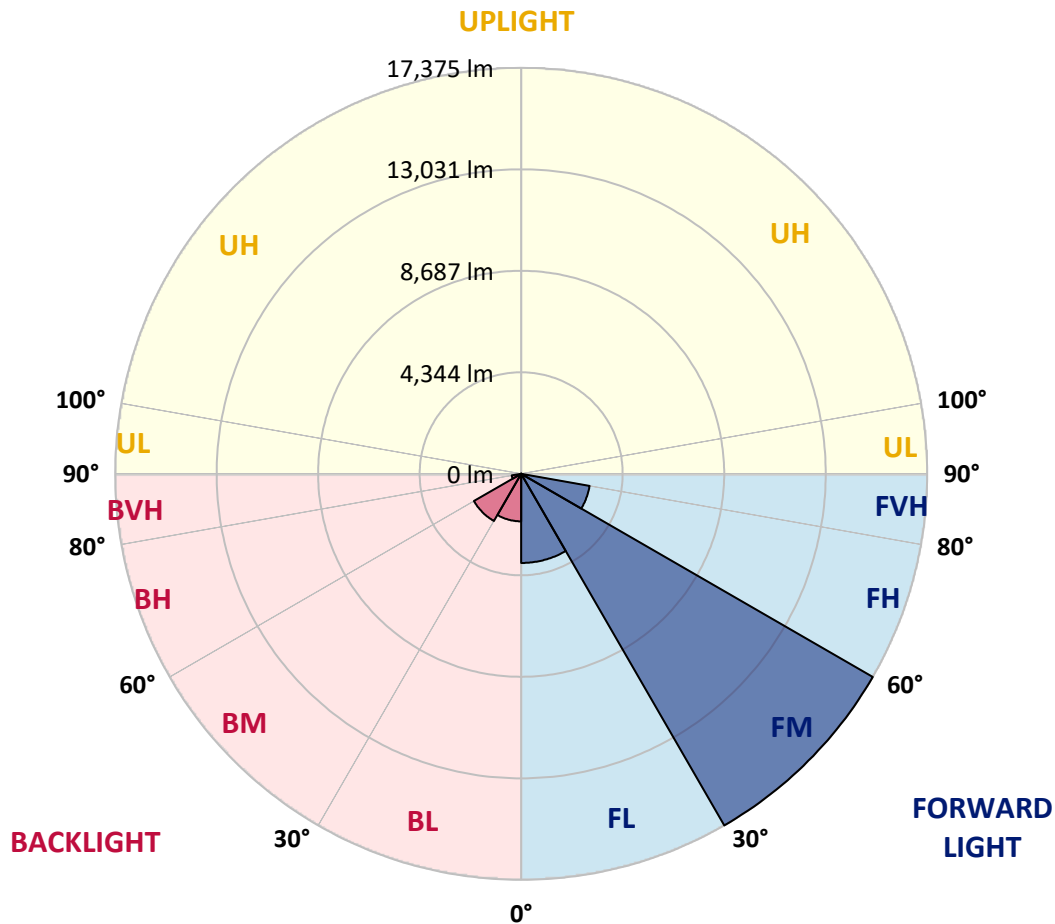
CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3815.1	13.2			
FM	(30°-60°)	17374.8	60.0			
FH	(60°-80°)	2973.2	10.3			G2/5000
FVH	(80°-90°)	17.1	0.1			G1/100
BL	(0°-30°)	2034.3	7.0	B3/2500		
BM	(30°-60°)	2332.8	8.1	B2/2500		
BH	(60°-80°)	410.7	1.4	B1/500		G1/500
BVH	(80°-90°)	16.0	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: P533483

CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0
2.5°	10353.0	10261.2	10353.0	10363.8	10428.6	10487.9	10450.2	10536.5	10487.9	10434.0	10417.8
5°	9516.3	9640.5	9645.9	9840.2	9797.0	10153.3	10309.8	10266.6	10531.1	10514.9	10477.1
7.5°	8766.0	8717.5	8782.2	9008.9	9295.0	9705.3	9932.0	9926.6	10304.4	10574.3	10547.3
10°	8069.7	8064.3	8199.3	8377.4	8620.3	9052.1	9365.2	9521.7	10110.1	10520.3	10579.7
12.5°	7600.1	7578.5	7724.3	7870.0	8253.2	8587.9	8987.3	9062.9	9737.6	10331.4	10428.6
15°	7292.4	7341.0	7351.8	7632.5	7875.4	8318.0	8631.1	8787.6	9564.9	10180.3	10552.7
17.5°	7238.5	7303.2	7308.6	7540.7	7799.8	8172.3	8447.6	8658.1	9419.2	10255.8	10558.1
20°	7346.4	7308.6	7341.0	7486.8	7740.5	8096.7	8496.1	8566.3	9370.6	10293.6	10617.5
22.5°	7654.1	7643.3	7562.3	7681.1	7859.2	8231.7	8609.5	8717.5	9510.9	10487.9	10666.1
25°	7994.2	8053.5	7978.0	7961.8	8085.9	8453.0	8955.0	9095.3	9980.5	10838.8	10817.2
27.5°	8631.1	8571.7	8571.7	8496.1	8463.8	8641.9	9327.4	9559.5	10504.1	11292.2	10989.9
30°	9241.0	9305.8	9257.2	9284.2	9068.3	9052.1	9856.4	10142.5	11432.6	11983.1	11357.0
32.5°	10207.3	10120.9	10201.9	10131.7	9845.6	9554.1	10574.3	10871.2	12555.3	12776.6	11907.6
35°	11011.5	10973.7	11319.2	11308.4	10844.2	10558.1	11335.4	11778.0	13338.0	13726.6	12555.3
37.5°	12155.9	12085.7	12479.7	12668.7	12253.0	11826.6	12425.8	12938.5	14066.7	14487.7	13219.2
40°	13332.6	13510.7	14039.7	14352.8	13910.1	13343.4	13759.0	13915.5	14552.5	14984.3	13672.6
42.5°	14822.4	15081.5	15621.3	15891.1	15853.4	15238.0	15113.9	15108.5	14903.3	14844.0	14007.3
45°	16252.8	16155.6	16986.9	17575.3	18050.3	17872.1	16420.1	16258.2	15459.3	15054.5	14093.7
47.5°	16878.9	16846.6	17413.3	18460.5	20079.8	20301.2	18320.2	17694.0	16398.5	15939.7	14563.3
50°	16069.3	16236.6	16798.0	17958.5	20441.5	22131.0	20652.0	19810.0	17494.3	17019.3	15675.2
52.5°	13424.3	13537.7	14072.1	15545.7	19210.8	23210.6	22886.7	22400.9	19507.7	18719.6	17613.0
54°	11038.5	11340.8	11632.3	13111.3	17019.3	22611.4	24112.0	23739.6	20819.3	20133.8	18832.9
55°	9613.5	9791.6	10002.1	11475.7	15502.5	21596.6	23971.7	24004.0	21699.2	20576.4	19653.4
57.5°	7022.5	7146.7	6930.8	7583.9	10644.5	17537.5	21925.9	22800.3	22886.7	21240.4	20155.4
60°	5365.4	5419.4	5176.5	5279.1	6617.7	12037.1	16959.9	18012.5	20646.6	18563.1	17073.3
62.5°	4161.7	4172.5	4167.1	4345.2	4561.1	7081.9	10606.7	11540.5	14234.0	13181.4	11594.5
65°	3066.0	3017.4	3103.7	3643.5	3891.8	4453.2	5586.7	6266.9	7735.1	6531.3	4669.1
67.5°	1986.4	2002.6	2089.0	2709.7	3335.8	3416.8	3438.4	3384.4	3389.8	1867.6	1171.3
70°	1192.9	1219.9	1192.9	1533.0	2385.8	2450.6	2240.1	2186.1	1705.7	442.6	437.2
72.5°	707.1	669.3	599.2	658.5	993.2	1187.5	1068.8	1063.4	669.3	259.1	259.1
75°	296.9	269.9	221.3	199.7	264.5	253.7	253.7	226.7	178.1	172.7	161.9
77.5°	59.4	59.4	43.2	48.6	64.8	75.6	91.8	91.8	108.0	108.0	102.6
80°	0.0	5.4	16.2	32.4	48.6	70.2	81.0	81.0	91.8	91.8	75.6
82.5°	0.0	5.4	16.2	32.4	43.2	64.8	81.0	81.0	91.8	97.2	81.0
85°	0.0	5.4	16.2	27.0	43.2	54.0	54.0	48.6	37.8	32.4	21.6
87.5°	0.0	0.0	5.4	10.8	5.4	10.8	10.8	10.8	10.8	10.8	10.8
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: P533483

CATALOG NUMBER: GALN-SA8D-830-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0	10407.0
2.5°	10455.6	10450.2	10320.6	10110.1	10061.5	9883.4	9861.8	9753.8	9813.2	9613.5	9591.9
5°	10369.2	10304.4	10147.9	10012.9	9618.9	9338.2	9116.9	8847.0	8690.5	8717.5	8614.9
7.5°	10493.3	10326.0	10050.7	9581.1	9100.7	8609.5	8345.0	7794.4	7594.7	7297.8	7254.7
10°	10363.8	10239.6	9813.2	9035.9	8372.0	7664.9	7044.1	6434.2	5970.0	5770.3	5727.1
12.5°	10353.0	10137.1	9424.6	8560.9	7600.1	6585.3	5683.9	4922.8	4464.0	4204.9	4145.5
15°	10185.7	9926.6	8987.3	7826.8	6499.0	5235.9	4253.5	3519.4	3168.5	3017.4	3060.6
17.5°	10201.9	9813.2	8550.1	7049.5	5414.0	3843.2	2904.0	2526.2	2434.4	2472.2	2472.2
20°	10185.7	9559.5	8021.1	6153.5	4145.5	2666.5	2132.1	1997.2	2056.6	2175.3	2148.3
22.5°	10099.3	9440.8	7535.3	5208.9	3049.8	1975.6	1711.1	1716.5	1808.3	1954.0	1986.4
25°	10164.1	9176.3	6920.0	4253.5	2223.9	1576.2	1484.4	1522.2	1619.3	1727.3	1748.9
27.5°	10115.5	8987.3	6277.6	3303.5	1624.7	1354.8	1349.5	1392.6	1435.8	1516.8	1516.8
30°	10169.5	8814.6	5646.1	2456.0	1338.7	1241.5	1219.9	1252.3	1295.5	1311.7	1306.3
32.5°	10369.2	8685.1	4917.4	1835.3	1182.1	1133.5	1133.5	1133.5	1128.1	1149.7	1155.1
35°	10806.4	8706.7	4275.1	1419.6	1079.6	1041.8	1025.6	1004.0	993.2	1004.0	1009.4
37.5°	11281.4	8695.9	3611.1	1209.1	1004.0	971.6	933.8	901.4	896.0	906.8	890.6
40°	11491.9	8798.4	2995.8	1085.0	933.8	896.0	836.7	809.7	815.1	825.9	815.1
42.5°	11778.0	8830.8	2596.3	987.8	869.0	809.7	771.9	739.5	734.1	750.3	744.9
45°	11772.6	8647.3	2175.3	933.8	809.7	744.9	696.3	669.3	669.3	680.1	685.5
47.5°	12118.1	8620.3	1867.6	885.2	766.5	701.7	642.3	620.7	615.4	615.4	604.6
50°	12922.4	8998.1	1630.1	831.3	712.5	653.1	604.6	577.6	556.0	545.2	539.8
52.5°	14493.1	10174.9	1446.6	766.5	653.1	604.6	561.4	539.8	512.8	485.8	480.4
54°	16015.3	11389.4	1435.8	712.5	604.6	572.2	534.4	523.6	491.2	453.4	442.6
55°	16700.8	12096.5	1473.6	669.3	572.2	550.6	518.2	507.4	475.0	431.8	426.4
57.5°	17267.6	12371.8	1452.0	556.0	518.2	512.8	485.8	469.6	431.8	372.4	361.7
60°	13899.4	9354.4	1041.8	491.2	475.0	464.2	442.6	431.8	383.2	318.5	313.1
62.5°	8782.2	5381.6	663.9	431.8	415.6	399.4	372.4	361.7	318.5	253.7	237.5
65°	3740.7	2229.3	448.0	383.2	356.3	329.3	307.7	291.5	253.7	188.9	183.5
67.5°	971.6	793.5	372.4	334.7	296.9	259.1	242.9	215.9	172.7	129.5	124.1
70°	437.2	399.4	313.1	280.7	237.5	199.7	178.1	151.1	113.4	86.4	81.0
72.5°	259.1	253.7	237.5	210.5	178.1	151.1	129.5	102.6	75.6	48.6	48.6
75°	161.9	156.5	161.9	145.7	124.1	113.4	97.2	70.2	43.2	21.6	21.6
77.5°	97.2	97.2	97.2	91.8	86.4	86.4	70.2	43.2	21.6	5.4	5.4
80°	75.6	75.6	81.0	75.6	75.6	75.6	59.4	32.4	10.8	0.0	0.0
82.5°	75.6	81.0	91.8	86.4	75.6	64.8	54.0	32.4	10.8	0.0	0.0
85°	21.6	16.2	27.0	37.8	54.0	48.6	37.8	27.0	10.8	0.0	0.0
87.5°	10.8	10.8	10.8	10.8	5.4	5.4	5.4	5.4	5.4	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)