

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: P455013

Luminaire Tested: **GALN-SA6A-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21359 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): 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

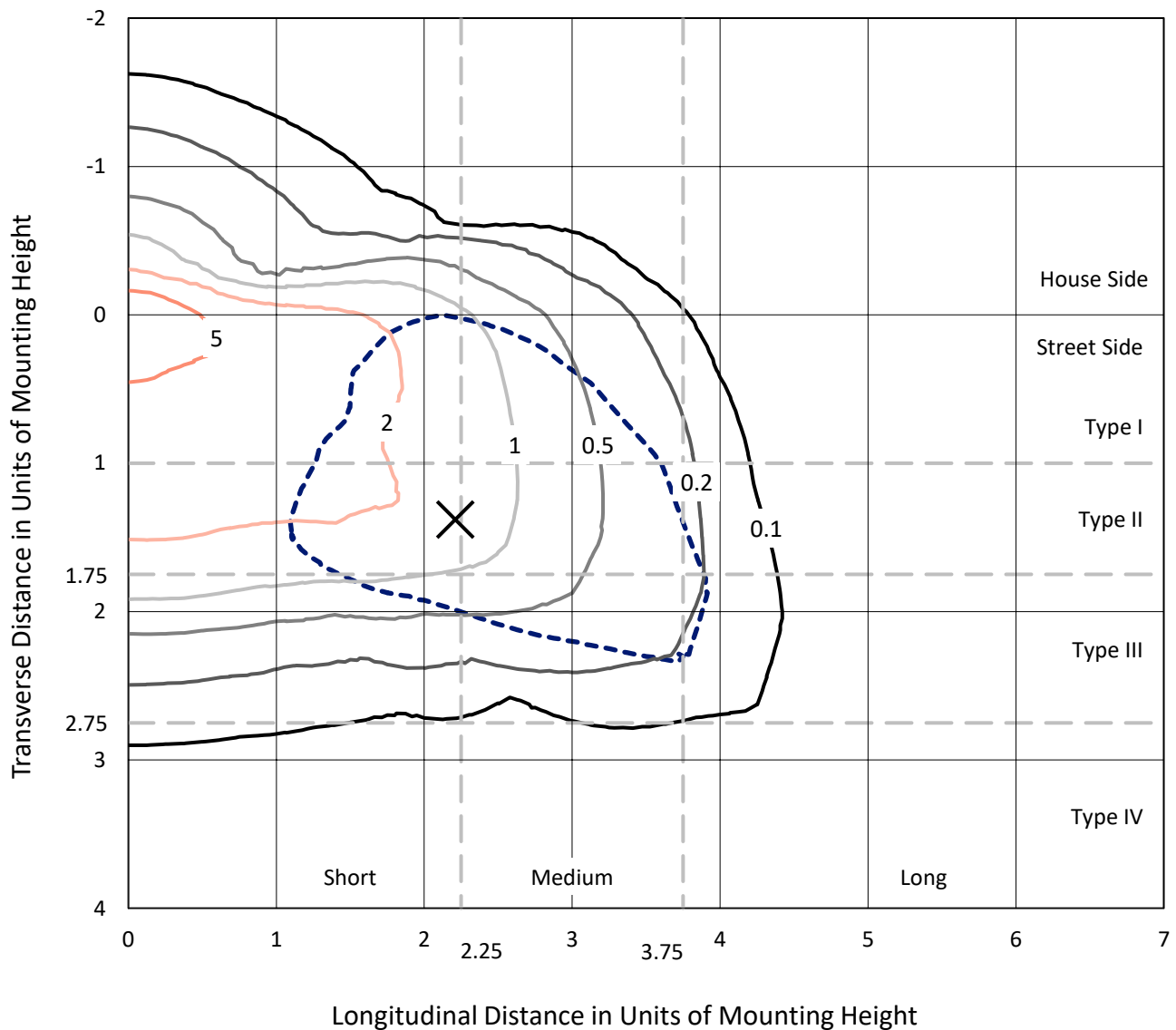


REPORT NUMBER: P455013

CATALOG NUMBER: GALN-SA6A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

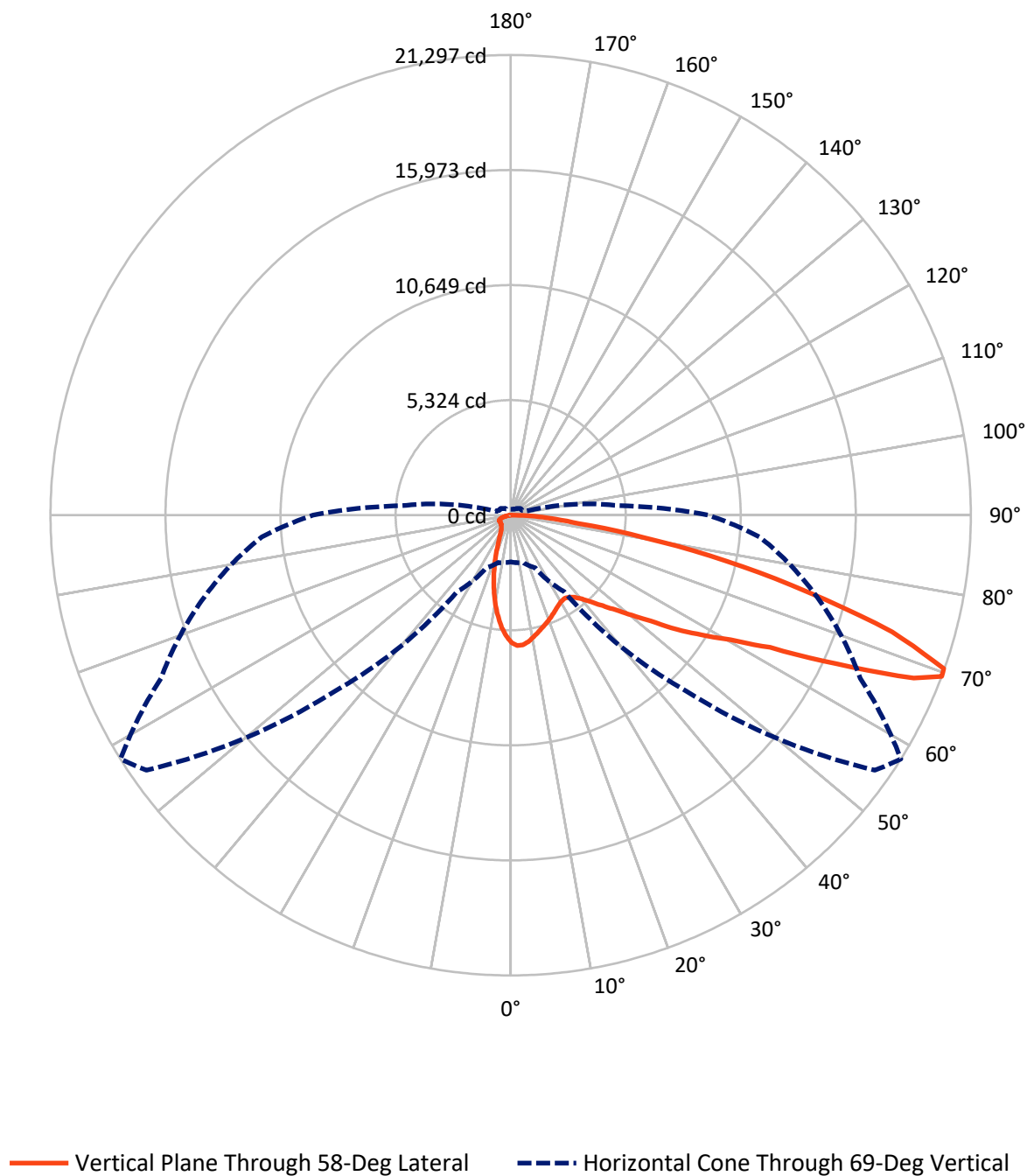


Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

REPORT NUMBER: P455013

CATALOG NUMBER: GALN-SA6A-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P455013

CATALOG NUMBER: GALN-SA6A-830-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3130.2	0.0	3130.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18228.8	0.0	18228.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	21359.0	0.0	21359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.3	2.3
10°-20°	1100.7	5.2
20°-30°	1422.1	6.7
30°-40°	1847.0	8.6
40°-50°	2685.3	12.6
50°-60°	4284.8	20.1
60°-70°	5724.0	26.8
70°-80°	3299.7	15.4
80°-90°	494.2	2.3
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°	21359.0	100.0
0°-180°	21359.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455013

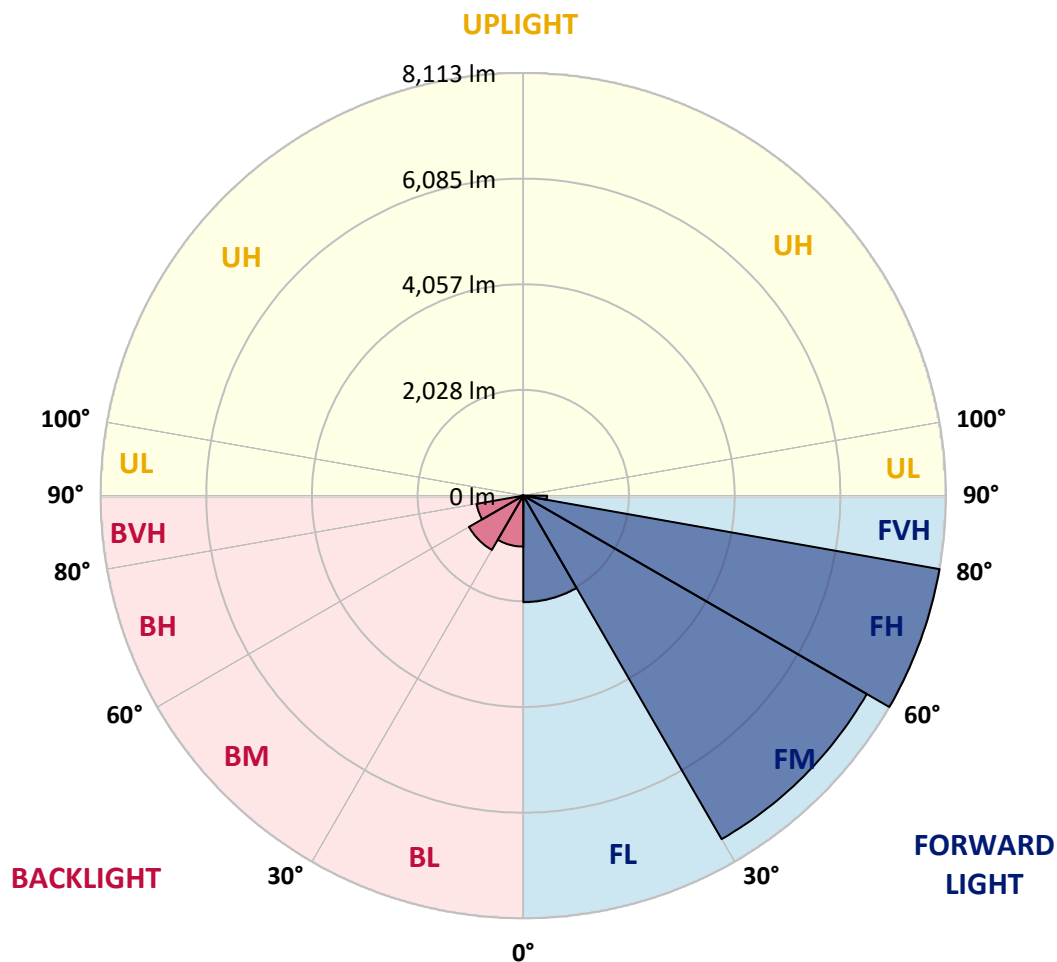
CATALOG NUMBER: GALN-SA6A-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2045.7	9.6			
FM	(30°-60°)	7613.4	35.6			
FH	(60°-80°)	8113.5	38.0			G4/12000
FVH	(80°-90°)	456.4	2.1			G3/500
BL	(0°-30°)	978.4	4.6	B2/1000		
BM	(30°-60°)	1203.7	5.6	B2/2500		
BH	(60°-80°)	910.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	37.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P455013

CATALOG NUMBER: GALN-SA6A-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4
2.5°	6121.6	6138.2	6133.5	6127.5	6118.0	6091.8	6048.9	6041.7	6014.3	5956.0	5883.3
5°	6027.5	6041.7	6042.9	6051.3	6063.2	6058.4	6027.5	6023.9	5983.4	5904.8	5783.3
7.5°	5704.6	5723.7	5765.4	5811.8	5853.5	5892.8	5902.4	5908.3	5883.3	5792.8	5630.8
10°	5341.3	5360.4	5379.4	5448.5	5551.0	5648.7	5729.7	5740.4	5746.3	5662.9	5465.2
12.5°	4938.7	4978.0	5018.5	5121.0	5257.9	5411.6	5554.5	5577.2	5617.7	5554.5	5322.3
15°	4596.8	4637.3	4695.7	4787.4	4953.0	5174.6	5375.9	5412.8	5492.6	5460.4	5188.9
17.5°	4359.8	4374.1	4414.6	4519.4	4698.1	4931.6	5200.8	5274.6	5402.1	5393.7	5074.5
20°	4172.8	4190.6	4215.6	4280.0	4465.8	4712.4	5037.6	5132.9	5305.6	5334.2	4961.3
22.5°	4094.1	4107.2	4103.7	4138.2	4264.5	4512.3	4872.0	4985.2	5219.8	5293.7	4856.5
25°	4098.9	4110.8	4093.0	4084.6	4159.7	4336.0	4699.3	4843.4	5150.7	5266.3	4761.2
27.5°	4178.7	4187.1	4153.7	4120.3	4126.3	4226.4	4556.3	4715.9	5092.4	5278.2	4681.4
30°	4285.9	4301.4	4280.0	4239.5	4195.4	4200.2	4464.6	4621.8	5065.0	5319.9	4643.3
32.5°	4424.1	4438.4	4428.9	4396.7	4339.5	4276.4	4442.0	4587.3	5067.3	5404.5	4634.9
35°	4569.4	4598.0	4613.5	4611.1	4564.7	4455.1	4531.3	4651.6	5124.5	5546.2	4683.8
37.5°	4733.8	4757.6	4824.3	4867.2	4824.3	4696.9	4732.6	4816.0	5250.8	5751.1	4791.0
40°	4893.4	4929.2	5026.8	5160.3	5143.6	5031.6	5040.0	5094.7	5473.5	6056.0	5000.6
42.5°	5060.2	5103.1	5273.4	5471.2	5510.5	5423.5	5446.1	5495.0	5790.4	6478.9	5360.4
45°	5274.6	5325.8	5535.5	5782.1	5936.9	5883.3	5947.6	5971.5	6214.5	7029.2	5834.5
47.5°	5551.0	5610.5	5869.0	6176.4	6395.5	6444.4	6556.3	6542.0	6739.8	7680.8	6449.1
50°	6016.7	6050.1	6294.3	6607.6	6908.9	7129.3	7250.8	7273.4	7391.4	8314.5	7136.5
52.5°	6570.6	6600.4	6776.7	7050.7	7428.3	7895.2	8195.4	8121.6	8150.2	9086.4	7940.5
55°	7193.6	7243.7	7355.6	7537.9	8027.5	8714.8	9317.5	9335.4	9018.5	9825.0	8711.2
57.5°	7676.1	7760.6	7952.4	8212.1	8832.7	9626.1	10436.1	10448.0	10043.0	10613.6	9561.7
60°	7433.1	7533.1	7971.5	8604.0	9889.3	11216.3	11772.6	11704.7	11040.0	11511.7	10599.3
62.5°	6384.8	6402.7	7040.0	8028.7	10214.5	13343.8	13761.9	13474.8	12370.6	12650.5	11653.5
65°	4132.3	4249.0	4754.1	6139.4	9146.0	14524.3	17247.3	16583.8	14236.0	13943.0	12536.1
67.5°	2608.7	2578.9	2788.6	3505.7	6290.7	13484.3	20221.7	20116.9	16675.6	14758.9	12325.3
69°	2163.2	2196.6	2268.0	2687.3	4328.8	11512.9	20573.1	21297.4	17858.4	14694.6	11559.4
70°	1961.9	1977.4	2052.4	2382.4	3340.1	9642.7	19996.6	21265.2	18323.0	14425.4	11004.3
72.5°	1556.9	1555.7	1684.4	1982.2	2496.7	5504.5	16419.4	18462.3	17803.6	13172.2	9092.4
75°	1182.9	1201.9	1343.7	1677.2	2300.2	3007.8	11458.1	14218.1	14219.3	10403.9	5673.7
77.5°	852.9	864.8	1030.4	1408.0	2166.8	2438.4	7632.0	10197.8	9586.7	4767.2	1783.2
80°	558.7	565.8	692.1	1115.0	1953.6	2300.2	4525.4	6241.9	4521.8	1265.1	589.6
82.5°	306.1	341.9	422.9	721.9	1567.6	2125.1	2750.5	3159.1	1696.3	563.4	307.3
85°	153.7	163.2	238.2	421.7	1024.4	1758.2	1915.4	1811.8	875.5	279.9	159.6
87.5°	45.3	57.2	98.9	163.2	415.7	916.0	1066.1	956.5	337.1	101.3	33.4
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: P455013

CATALOG NUMBER: GALN-SA6A-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4	5902.4
2.5°	5853.5	5832.1	5736.8	5651.0	5572.4	5489.0	5418.8	5356.8	5362.8	5364.0	5300.8
5°	5720.1	5671.3	5490.2	5321.1	5178.1	4997.1	4842.2	4742.2	4692.1	4625.4	4649.2
7.5°	5539.1	5445.0	5193.6	4912.5	4649.2	4414.6	4159.7	3984.6	3872.6	3764.2	3778.5
10°	5352.0	5200.8	4835.1	4463.4	4122.7	3747.5	3422.3	3143.6	2936.3	2858.9	2807.6
12.5°	5160.3	4961.3	4496.8	4002.4	3531.9	3082.8	2621.8	2322.8	2094.1	1972.6	1988.1
15°	4985.2	4743.3	4144.2	3541.4	2930.3	2395.5	1935.7	1651.0	1491.4	1458.0	1477.1
17.5°	4823.2	4506.3	3814.2	3093.5	2380.0	1796.3	1454.5	1293.6	1229.3	1211.4	1210.3
20°	4656.4	4305.0	3443.7	2614.7	1854.7	1392.5	1193.6	1118.5	1106.6	1113.8	1115.0
22.5°	4487.2	4056.0	3062.6	2139.4	1477.1	1138.8	1043.5	1023.2	1032.8	1049.4	1051.8
25°	4331.2	3836.8	2695.7	1722.5	1179.3	1000.6	954.1	954.1	975.6	1000.6	1001.8
27.5°	4202.5	3624.8	2330.0	1367.5	987.5	900.5	885.1	893.4	923.2	942.2	943.4
30°	4096.5	3427.1	1984.5	1095.9	868.4	820.7	817.2	831.5	852.9	870.8	872.0
32.5°	4016.7	3253.2	1661.7	920.8	786.2	760.0	758.8	769.5	781.4	786.2	791.0
35°	3985.7	3109.0	1366.3	810.0	731.4	714.7	714.7	713.5	718.3	720.7	723.1
37.5°	4010.8	2998.2	1137.6	738.5	690.9	679.0	671.8	664.7	662.3	662.3	663.5
40°	4116.8	2939.9	967.3	692.1	662.3	644.4	631.3	623.0	614.7	617.0	619.4
42.5°	4341.9	2950.6	851.7	661.1	637.3	612.3	593.2	583.7	577.7	584.9	583.7
45°	4700.5	3057.8	777.9	639.7	612.3	580.1	562.2	552.7	552.7	563.4	567.0
47.5°	5202.0	3262.7	738.5	623.0	593.2	555.1	537.2	530.1	532.5	550.3	551.5
50°	5814.2	3618.9	731.4	614.7	583.7	537.2	517.0	509.8	515.8	534.8	537.2
52.5°	6489.6	4077.5	765.9	615.8	575.3	526.5	500.3	489.6	495.5	511.0	515.8
55°	7290.1	4651.6	855.3	620.6	563.4	520.6	488.4	464.6	471.7	482.4	483.6
57.5°	8107.3	5375.9	1012.5	621.8	553.9	509.8	468.1	437.2	437.2	444.3	447.9
60°	9105.5	6164.4	1219.8	623.0	555.1	494.3	440.7	406.2	401.4	405.0	406.2
62.5°	10096.6	6824.4	1254.3	619.4	567.0	478.9	411.0	375.2	366.9	365.7	363.3
65°	10533.7	6701.7	1028.0	602.7	580.1	469.3	387.1	345.4	331.2	326.4	326.4
67.5°	9821.4	5668.9	773.1	580.1	571.8	459.8	364.5	320.4	303.8	294.2	294.2
69°	9152.0	5042.3	694.5	564.6	550.3	444.3	350.2	307.3	287.1	276.4	272.8
70°	8635.0	4611.1	661.1	551.5	530.1	426.4	339.5	297.8	275.2	263.3	260.9
72.5°	6891.1	3617.7	578.9	501.5	451.5	358.6	301.4	268.0	246.6	233.5	229.9
75°	3971.4	1960.7	480.1	436.0	363.3	278.7	254.9	233.5	216.8	204.9	201.3
77.5°	1222.2	757.6	347.8	344.3	266.8	215.6	203.7	195.4	183.4	170.3	168.0
80°	514.6	385.9	235.9	232.3	177.5	150.1	146.5	145.3	140.6	129.8	126.3
82.5°	282.3	218.0	164.4	142.9	107.2	87.0	90.5	91.7	88.1	77.4	70.3
85°	138.2	119.1	79.8	64.3	48.8	31.0	29.8	35.7	33.4	23.8	26.2
87.5°	27.4	33.4	21.4	9.5	4.8	0.0	0.0	0.0	0.0	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)