

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: P532781

Luminaire Tested: **GALN-SA8A-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532781
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-SA8A-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 17128 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 244
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



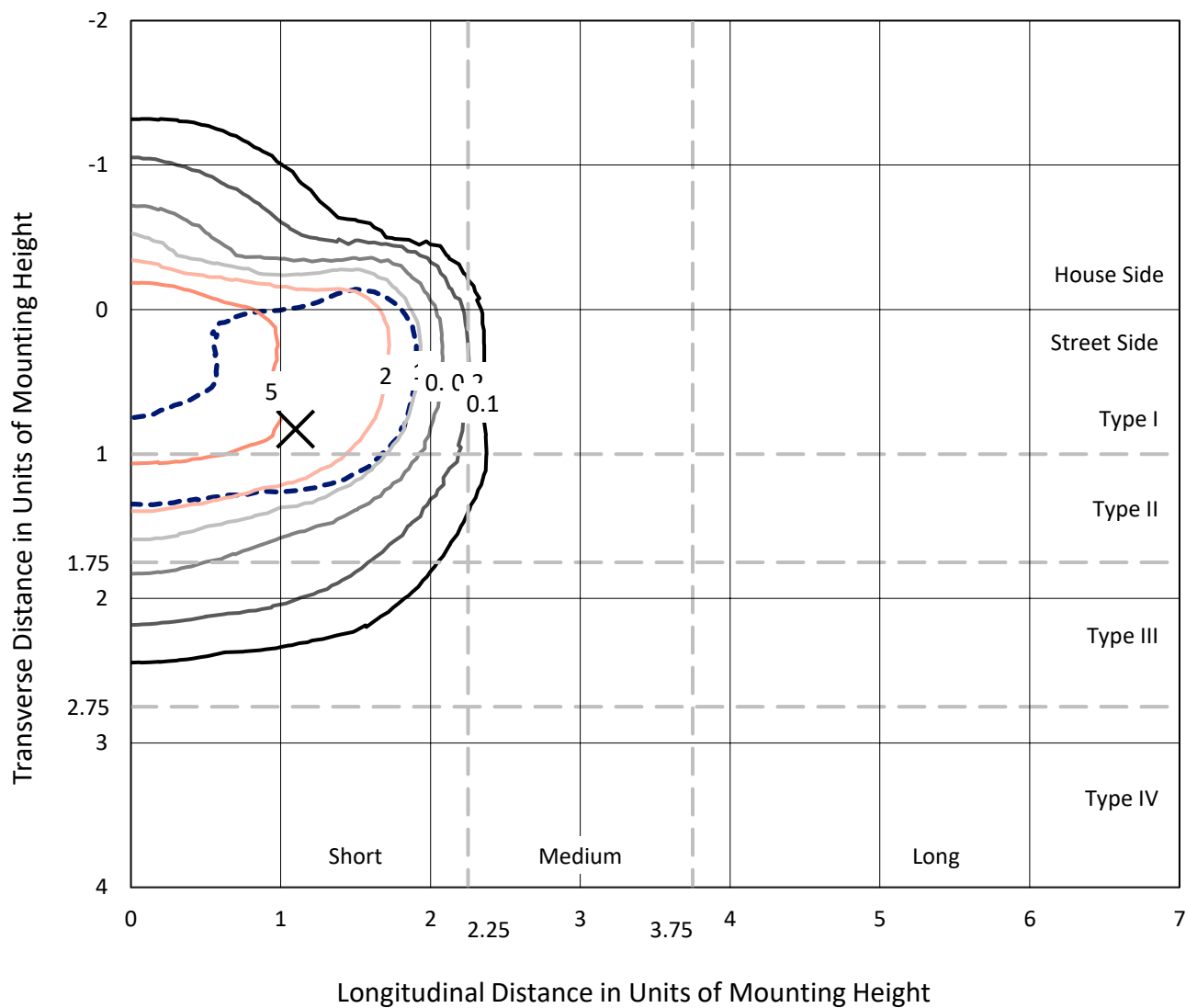
REPORT NUMBER: P532781

CATALOG NUMBER: GALN-SA8A-830-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

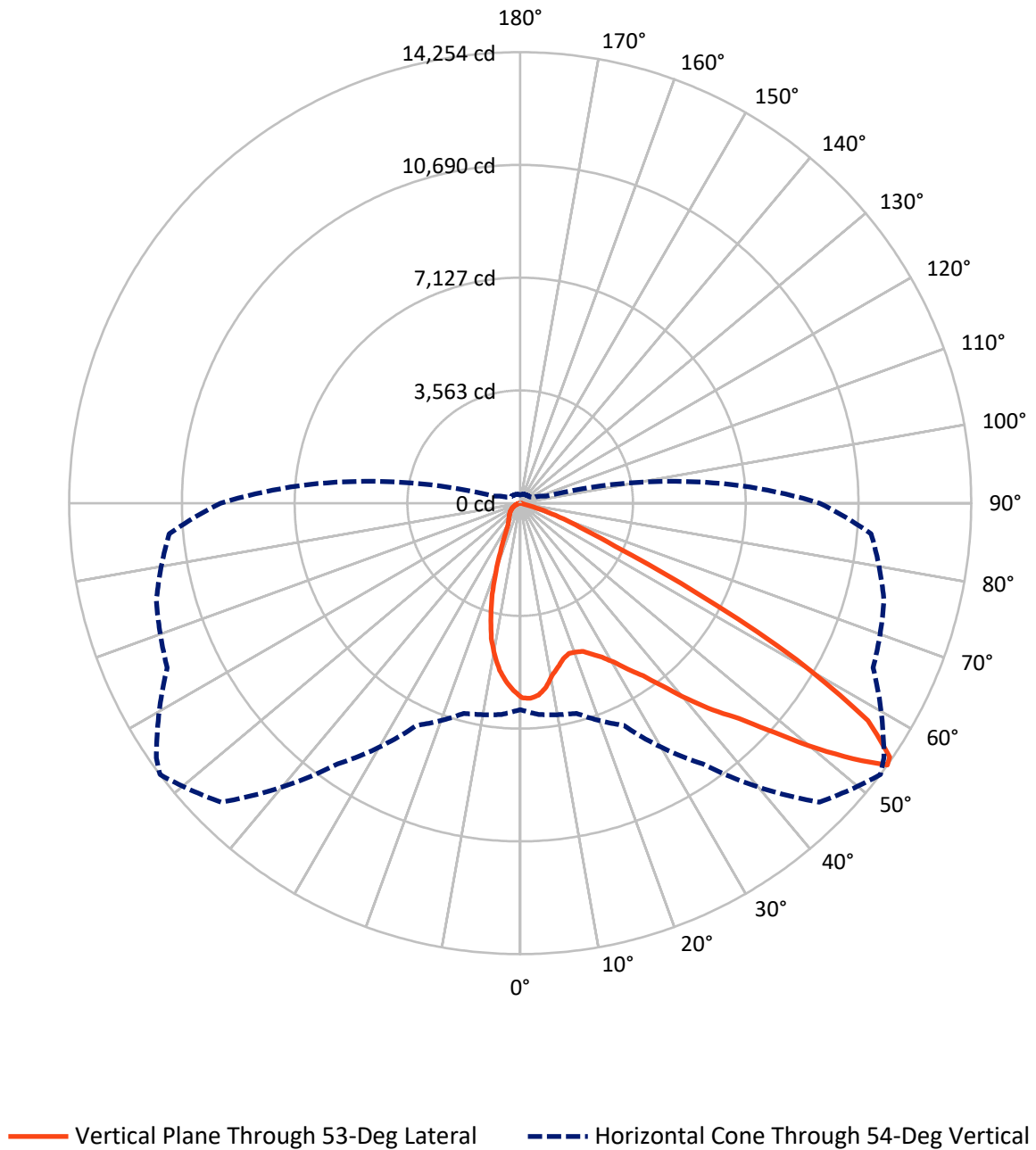


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

REPORT NUMBER: P532781

CATALOG NUMBER: GALN-SA8A-830-U-SL2-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2833.9	0.0	2833.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14294.1	0.0	14294.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	17128.0	0.0	17128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.8	3.1
10°-20°	1210.2	7.1
20°-30°	1719.9	10.0
30°-40°	2654.3	15.5
40°-50°	4161.6	24.3
50°-60°	4834.3	28.2
60°-70°	1826.7	10.7
70°-80°	173.7	1.0
80°-90°	19.6	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°	17128.0	100.0
0°-180°	17128.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532781

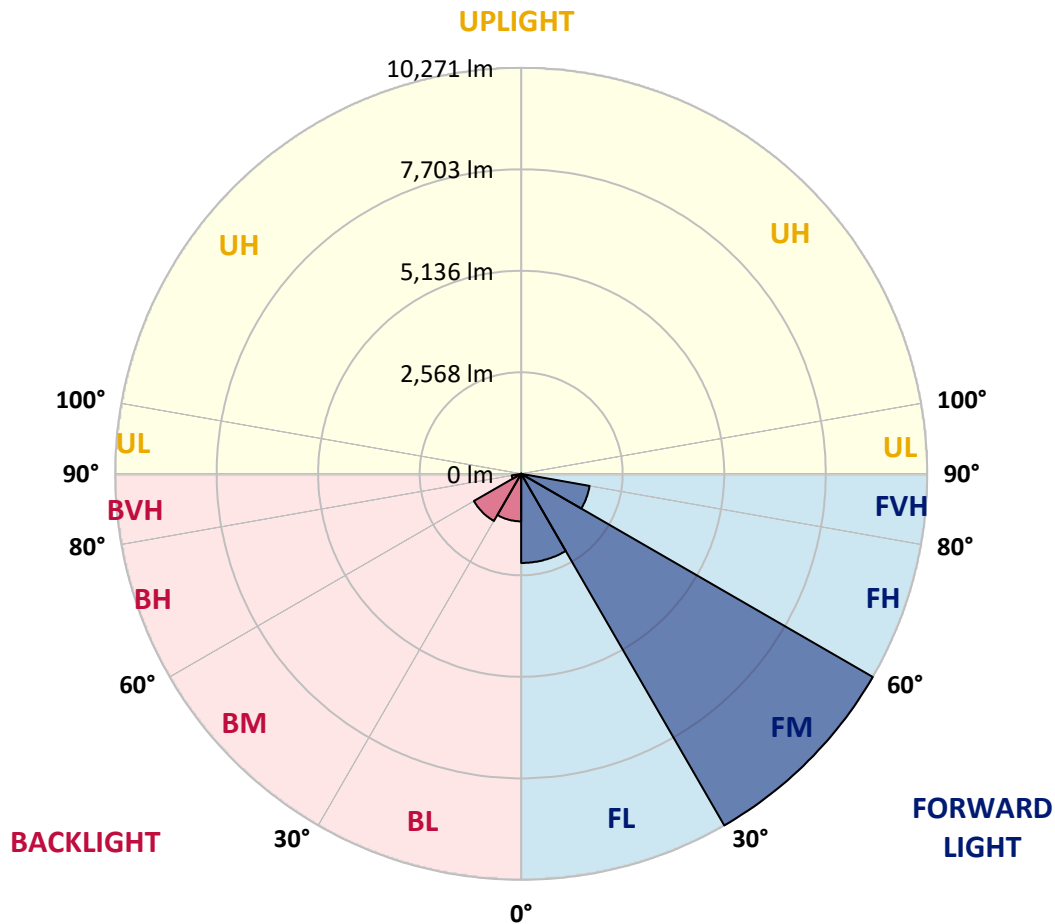
CATALOG NUMBER: GALN-SA8A-830-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2255.3	13.2			
FM	(30°-60°)	10271.1	60.0			
FH	(60°-80°)	1757.6	10.3			G1/1800
FVH	(80°-90°)	10.1	0.1			G1/100
BL	(0°-30°)	1202.6	7.0	B3/2500		
BM	(30°-60°)	1379.0	8.1	B2/2500		
BH	(60°-80°)	242.8	1.4	B1/500		G1/500
BVH	(80°-90°)	9.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



REPORT NUMBER: P532781

CATALOG NUMBER: GALN-SA8A-830-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1
2.5°	6120.2	6065.9	6120.2	6126.6	6164.9	6200.0	6177.6	6228.7	6200.0	6168.0	6158.5
5°	5625.6	5699.0	5702.2	5817.0	5791.5	6002.1	6094.7	6069.1	6225.5	6215.9	6193.6
7.5°	5182.0	5153.3	5191.6	5325.6	5494.8	5737.3	5871.3	5868.1	6091.5	6251.0	6235.1
10°	4770.4	4767.2	4847.0	4952.3	5095.9	5351.2	5536.2	5628.8	5976.6	6219.1	6254.2
12.5°	4492.8	4480.0	4566.2	4652.4	4878.9	5076.7	5312.9	5357.6	5756.4	6107.4	6164.9
15°	4310.9	4339.6	4346.0	4512.0	4655.5	4917.2	5102.3	5194.8	5654.3	6018.1	6238.2
17.5°	4279.0	4317.3	4320.5	4457.7	4610.9	4831.0	4993.8	5118.2	5568.2	6062.7	6241.4
20°	4342.8	4320.5	4339.6	4425.8	4575.8	4786.4	5022.5	5064.0	5539.4	6085.1	6276.5
22.5°	4524.7	4518.3	4470.5	4540.7	4646.0	4866.1	5089.5	5153.3	5622.4	6200.0	6305.3
25°	4725.7	4760.8	4716.2	4706.6	4780.0	4997.0	5293.7	5376.7	5900.0	6407.4	6394.6
27.5°	5102.3	5067.2	5067.2	5022.5	5003.4	5108.7	5513.9	5651.1	6209.5	6675.4	6496.7
30°	5462.9	5501.1	5472.4	5488.4	5360.7	5351.2	5826.6	5995.7	6758.4	7083.8	6713.7
32.5°	6034.0	5983.0	6030.8	5989.4	5820.2	5647.9	6251.0	6426.5	7422.1	7552.9	7039.2
35°	6509.5	6487.1	6691.4	6685.0	6410.6	6241.4	6700.9	6962.6	7884.8	8114.5	7422.1
37.5°	7185.9	7144.5	7377.4	7489.1	7243.4	6991.3	7345.5	7648.6	8315.5	8564.4	7814.6
40°	7881.6	7986.9	8299.6	8484.6	8223.0	7887.9	8133.6	8226.2	8602.7	8858.0	8082.6
42.5°	8762.3	8915.4	9234.5	9394.1	9371.7	9008.0	8934.6	8931.4	8810.1	8775.0	8280.4
45°	9607.9	9550.4	10041.8	10389.6	10670.4	10565.1	9706.8	9611.0	9138.8	8899.5	8331.5
47.5°	9978.0	9958.9	10293.9	10912.9	11870.2	12001.0	10830.0	10459.8	9694.0	9422.8	8609.1
50°	9499.4	9598.3	9930.1	10616.2	12084.0	13082.8	12208.5	11710.7	10341.8	10061.0	9266.4
52.5°	7935.8	8002.8	8318.7	9189.8	11356.5	13720.9	13529.5	13242.3	11532.0	11066.1	10412.0
54°	6525.4	6704.1	6876.4	7750.7	10061.0	13366.8	14253.8	14033.7	12307.4	11902.1	11133.1
55°	5683.0	5788.3	5912.8	6783.9	9164.3	12766.9	14170.9	14190.0	12827.5	12163.8	11618.1
57.5°	4151.4	4224.8	4097.1	4483.2	6292.5	10367.3	12961.5	13478.4	13529.5	12556.3	11914.9
60°	3171.8	3203.7	3060.1	3120.7	3912.1	7115.7	10025.9	10648.1	12205.3	10973.6	10092.9
62.5°	2460.2	2466.6	2463.4	2568.7	2696.3	4186.5	6270.2	6822.2	8414.4	7792.2	6854.1
65°	1812.4	1783.7	1834.8	2153.9	2300.7	2632.5	3302.6	3704.7	4572.6	3861.0	2760.1
67.5°	1174.3	1183.8	1234.9	1601.8	1972.0	2019.9	2032.6	2000.7	2003.9	1104.1	692.4
70°	705.2	721.1	705.2	906.2	1410.4	1448.7	1324.2	1292.3	1008.3	261.7	258.5
72.5°	418.0	395.7	354.2	389.3	587.1	702.0	631.8	628.6	395.7	153.2	153.2
75°	175.5	159.5	130.8	118.1	156.4	150.0	150.0	134.0	105.3	102.1	95.7
77.5°	35.1	35.1	25.5	28.7	38.3	44.7	54.2	54.2	63.8	63.8	60.6
80°	0.0	3.2	9.6	19.1	28.7	41.5	47.9	47.9	54.2	54.2	44.7
82.5°	0.0	3.2	9.6	19.1	25.5	38.3	47.9	47.9	54.2	57.4	47.9
85°	0.0	3.2	9.6	16.0	25.5	31.9	31.9	28.7	22.3	19.1	12.8
87.5°	0.0	0.0	3.2	6.4	3.2	6.4	6.4	6.4	6.4	6.4	6.4
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: P532781

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1	6152.1
2.5°	6180.8	6177.6	6101.0	5976.6	5947.9	5842.6	5829.8	5766.0	5801.1	5683.0	5670.3
5°	6129.8	6091.5	5998.9	5919.2	5686.2	5520.3	5389.5	5229.9	5137.4	5153.3	5092.7
7.5°	6203.1	6104.2	5941.5	5663.9	5379.9	5089.5	4933.2	4607.7	4489.6	4314.1	4288.6
10°	6126.6	6053.2	5801.1	5341.6	4949.1	4531.1	4164.1	3803.6	3529.2	3411.1	3385.6
12.5°	6120.2	5992.5	5571.3	5060.8	4492.8	3892.9	3360.0	2910.1	2638.9	2485.7	2450.6
15°	6021.3	5868.1	5312.9	4626.8	3841.9	3095.2	2514.4	2080.5	1873.1	1783.7	1809.3
17.5°	6030.8	5801.1	5054.4	4167.3	3200.5	2271.9	1716.7	1493.3	1439.1	1461.4	1461.4
20°	6021.3	5651.1	4741.7	3637.6	2450.6	1576.3	1260.4	1180.6	1215.7	1285.9	1270.0
22.5°	5970.2	5580.9	4454.5	3079.2	1802.9	1167.9	1011.5	1014.7	1069.0	1155.1	1174.3
25°	6008.5	5424.6	4090.8	2514.4	1314.7	931.7	877.5	899.8	957.3	1021.1	1033.9
27.5°	5979.8	5312.9	3711.0	1952.8	960.5	800.9	797.7	823.3	848.8	896.6	896.6
30°	6011.7	5210.8	3337.7	1451.9	791.3	733.9	721.1	740.3	765.8	775.4	772.2
32.5°	6129.8	5134.2	2906.9	1084.9	698.8	670.1	670.1	670.1	666.9	679.7	682.9
35°	6388.2	5146.9	2527.2	839.2	638.2	615.8	606.3	593.5	587.1	593.5	596.7
37.5°	6669.0	5140.6	2134.7	714.8	593.5	574.4	552.0	532.9	529.7	536.1	526.5
40°	6793.5	5201.2	1771.0	641.4	552.0	529.7	494.6	478.6	481.8	488.2	481.8
42.5°	6962.6	5220.3	1534.8	583.9	513.7	478.6	456.3	437.2	434.0	443.5	440.3
45°	6959.4	5111.8	1285.9	552.0	478.6	440.3	411.6	395.7	395.7	402.1	405.2
47.5°	7163.6	5095.9	1104.1	523.3	453.1	414.8	379.7	367.0	363.8	363.8	357.4
50°	7639.1	5319.3	963.7	491.4	421.2	386.1	357.4	341.4	328.7	322.3	319.1
52.5°	8567.6	6014.9	855.2	453.1	386.1	357.4	331.9	319.1	303.1	287.2	284.0
54°	9467.5	6732.8	848.8	421.2	357.4	338.2	315.9	309.5	290.4	268.0	261.7
55°	9872.7	7150.8	871.1	395.7	338.2	325.5	306.3	299.9	280.8	255.3	252.1
57.5°	10207.7	7313.6	858.4	328.7	306.3	303.1	287.2	277.6	255.3	220.2	213.8
60°	8216.6	5529.9	615.8	290.4	280.8	274.4	261.7	255.3	226.6	188.3	185.1
62.5°	5191.6	3181.3	392.5	255.3	245.7	236.1	220.2	213.8	188.3	150.0	140.4
65°	2211.3	1317.8	264.8	226.6	210.6	194.6	181.9	172.3	150.0	111.7	108.5
67.5°	574.4	469.1	220.2	197.8	175.5	153.2	143.6	127.6	102.1	76.6	73.4
70°	258.5	236.1	185.1	165.9	140.4	118.1	105.3	89.3	67.0	51.1	47.9
72.5°	153.2	150.0	140.4	124.4	105.3	89.3	76.6	60.6	44.7	28.7	28.7
75°	95.7	92.5	95.7	86.2	73.4	67.0	57.4	41.5	25.5	12.8	12.8
77.5°	57.4	57.4	57.4	54.2	51.1	51.1	41.5	25.5	12.8	3.2	3.2
80°	44.7	44.7	47.9	44.7	44.7	44.7	35.1	19.1	6.4	0.0	0.0
82.5°	44.7	47.9	54.2	51.1	44.7	38.3	31.9	19.1	6.4	0.0	0.0
85°	12.8	9.6	16.0	22.3	31.9	28.7	22.3	16.0	6.4	0.0	0.0
87.5°	6.4	6.4	6.4	6.4	3.2	3.2	3.2	3.2	3.2	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)