

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: P530911

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12602 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 182
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

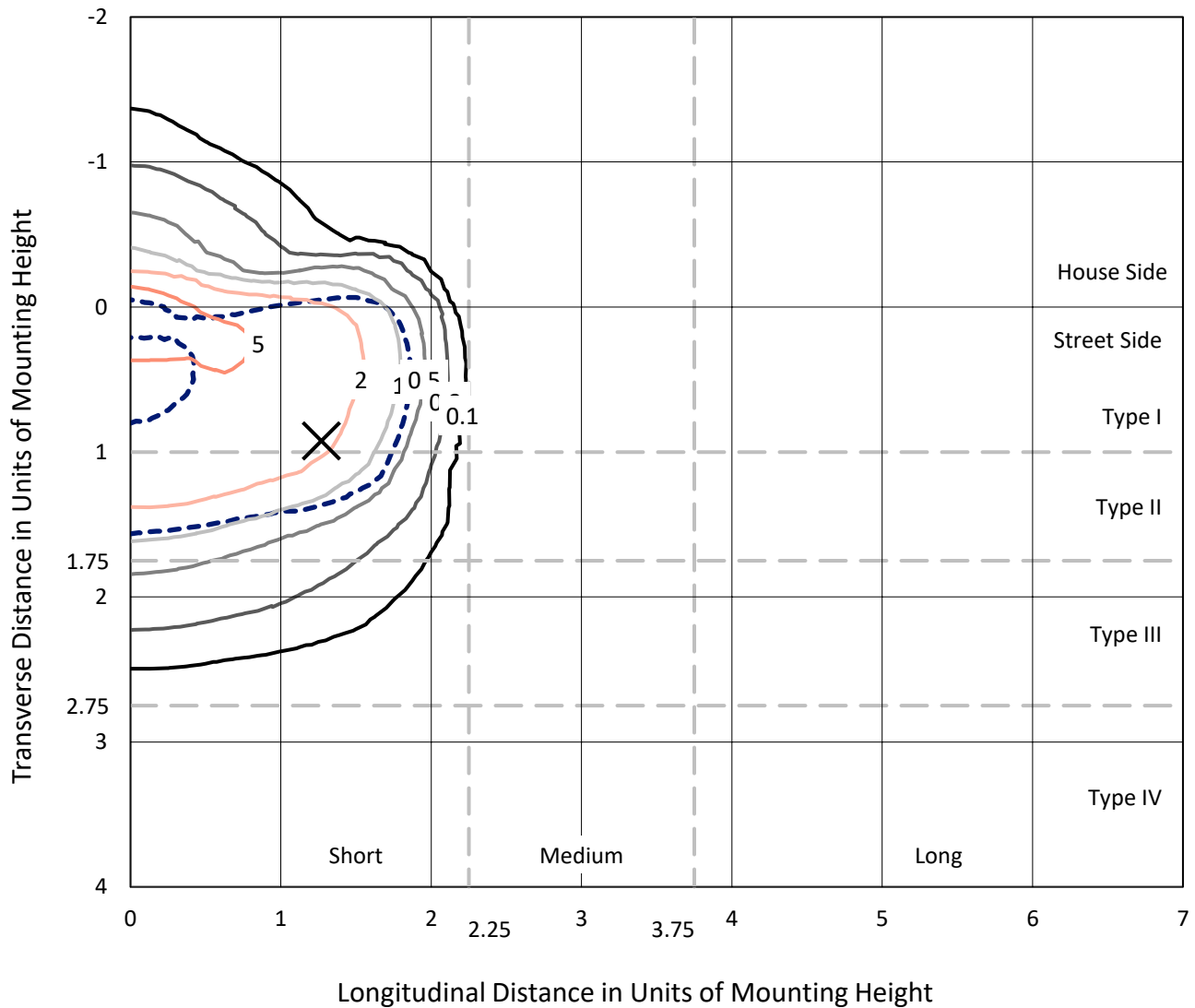


REPORT NUMBER: P530911

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

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

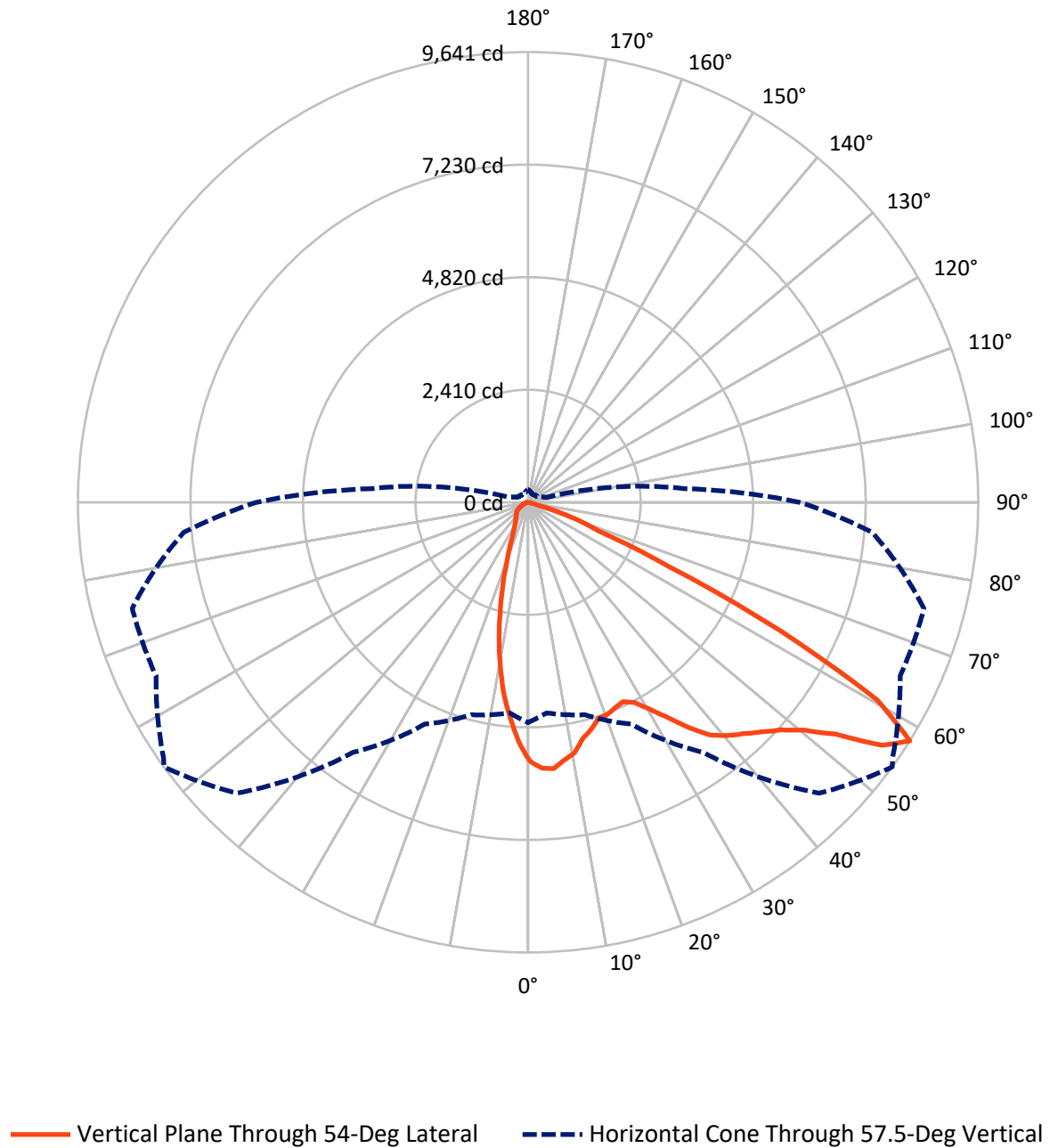


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

REPORT NUMBER: P530911

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

Luminous Intensity Polar Plot



REPORT NUMBER: P530911

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1780.9	0.0	1780.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	10821.1	0.0	10821.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	12602.0	0.0	12602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.6	3.7
10°-20°	991.8	7.9
20°-30°	1314.3	10.4
30°-40°	1910.1	15.2
40°-50°	2832.4	22.5
50°-60°	3541.8	28.1
60°-70°	1397.1	11.1
70°-80°	139.1	1.1
80°-90°	10.8	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°	12602.0	100.0
0°-180°	12602.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530911

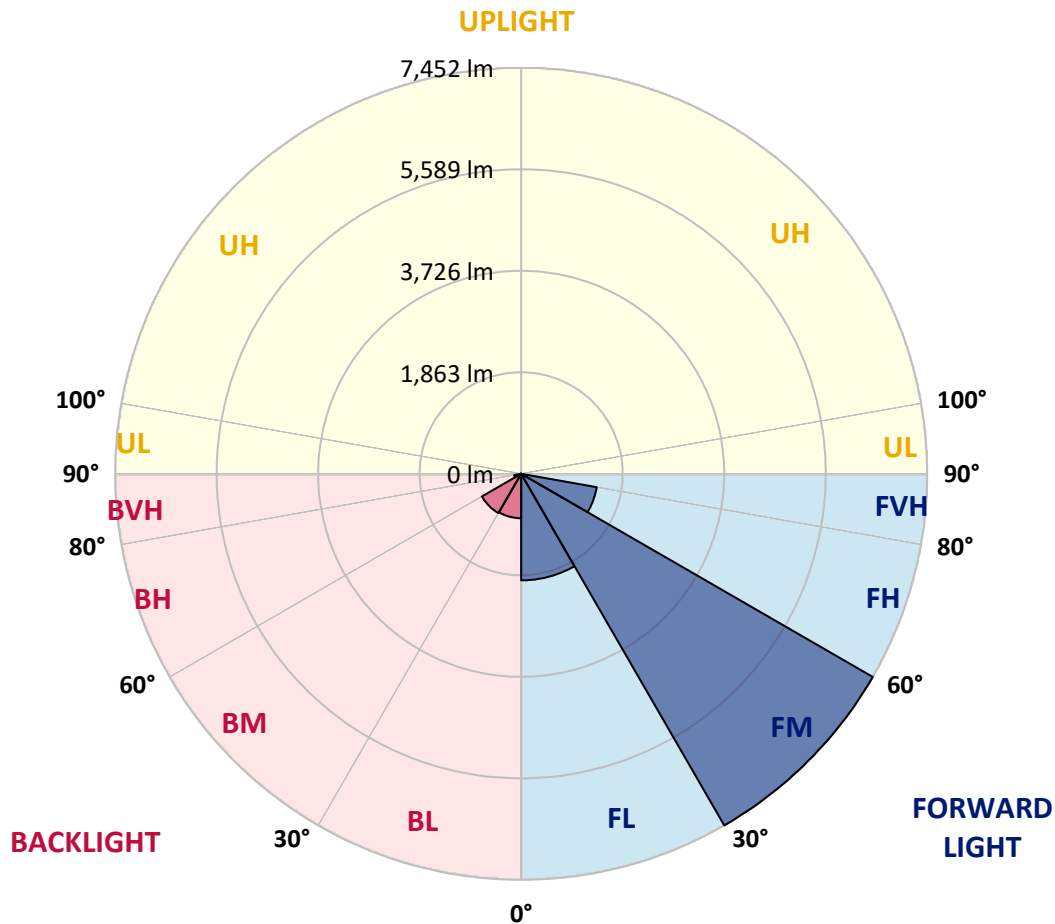
CATALOG NUMBER: GALN-SA6A-830-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1956.2	15.5			
FM	(30°-60°)	7451.5	59.1			
FH	(60°-80°)	1408.5	11.2			G1/1800
FVH	(80°-90°)	4.9	0.0			G0/10
BL	(0°-30°)	814.5	6.5	B2/1000		
BM	(30°-60°)	832.8	6.6	B1/1000		
BH	(60°-80°)	127.7	1.0	B1/500		G1/500
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



REPORT NUMBER: P530911

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4
2.5°	5874.7	5813.8	5818.5	5797.4	5769.3	5790.4	5699.0	5720.1	5717.7	5593.5	5511.5
5°	5727.1	5792.7	5724.8	5781.0	5727.1	5785.7	5729.4	5687.3	5619.3	5527.9	5375.6
7.5°	5476.4	5413.1	5431.8	5502.1	5513.9	5645.1	5574.8	5628.7	5600.6	5420.1	5211.6
10°	4972.5	4958.5	5052.2	5146.0	5260.8	5401.4	5455.3	5424.8	5403.7	5335.8	5056.9
12.5°	4585.9	4625.7	4623.4	4778.1	4972.5	5052.2	5192.8	5188.1	5305.3	5178.8	4911.6
15°	4218.0	4239.1	4337.5	4433.6	4649.2	4876.5	5049.9	5073.3	5213.9	5124.9	4799.1
17.5°	3993.0	3962.6	4039.9	4154.7	4375.0	4672.6	4864.8	4921.0	5113.1	5094.4	4670.3
20°	3770.4	3770.4	3833.7	3969.6	4171.1	4506.2	4848.4	4831.9	5113.1	5059.3	4532.0
22.5°	3695.4	3732.9	3749.3	3852.4	4091.5	4379.7	4778.1	4808.5	5153.0	5042.8	4471.1
25°	3798.5	3749.3	3754.0	3836.0	4061.0	4318.8	4726.5	4794.5	5225.6	5124.9	4421.9
27.5°	3814.9	3864.2	3878.2	3934.5	4084.4	4337.5	4855.4	4993.6	5406.1	5317.0	4435.9
30°	3957.9	4007.1	4004.8	4100.8	4203.9	4489.8	5143.6	5171.7	5778.7	5558.4	4522.6
32.5°	4131.3	4182.8	4199.2	4311.7	4393.7	4768.7	5495.1	5567.8	6137.2	5938.0	4749.9
35°	4346.9	4328.1	4403.1	4515.6	4691.3	5176.4	5923.9	6045.8	6523.8	6430.1	4984.3
37.5°	4616.4	4592.9	4665.6	4848.4	5087.4	5659.1	6320.0	6399.6	6805.0	6887.0	5417.8
40°	4806.2	4815.5	5035.8	5281.9	5534.9	6118.4	6570.7	6648.0	7001.9	7313.5	5745.8
42.5°	5122.5	5181.1	5445.9	5745.8	6010.6	6462.9	6774.6	6849.6	7093.3	7655.7	6188.7
45°	5581.8	5556.0	5849.0	6184.0	6477.0	6821.4	7015.9	6990.2	7147.2	7995.4	6467.6
47.5°	6172.3	6177.0	6371.5	6657.4	6962.0	7133.1	7285.4	7194.0	7259.6	8354.0	6840.2
50°	6575.4	6610.5	6767.5	7060.5	7212.8	7475.2	7669.7	7613.5	7592.4	8569.6	7074.5
52.5°	6678.5	6783.9	6868.3	7233.9	7590.0	8004.8	8253.2	8372.7	7997.8	8642.2	7372.1
55°	5900.5	5994.2	6291.8	6793.3	7733.0	8843.7	9185.9	9188.2	8527.4	8965.6	7580.7
57.5°	4717.1	4527.3	4710.1	5242.0	6537.9	8808.6	9640.5	9530.3	8792.2	8775.8	7400.2
60°	3261.9	3215.0	3226.8	3437.7	4525.0	7006.6	8590.7	8733.6	8096.2	7606.5	5858.3
62.5°	2584.7	2544.9	2493.3	2469.9	2809.7	4365.6	6059.9	6261.4	5661.5	4932.7	3472.8
65°	2024.6	2001.2	2008.2	2102.0	2099.6	2476.9	3313.5	3231.5	2587.0	1912.2	1092.0
67.5°	1366.2	1401.3	1429.4	1713.0	1858.3	1724.7	1600.5	1553.6	841.3	353.8	241.4
70°	768.6	773.3	803.8	1070.9	1410.7	1338.0	1103.7	1103.7	419.5	128.9	138.3
72.5°	419.5	405.4	377.3	461.6	628.0	637.4	492.1	428.8	124.2	84.4	77.3
75°	203.9	201.5	173.4	142.9	135.9	112.5	86.7	79.7	56.2	53.9	46.9
77.5°	42.2	39.8	21.1	21.1	23.4	25.8	32.8	32.8	39.8	39.8	32.8
80°	0.0	0.0	2.3	9.4	16.4	23.4	28.1	28.1	32.8	32.8	25.8
82.5°	0.0	0.0	2.3	7.0	14.1	21.1	25.8	28.1	32.8	35.1	28.1
85°	0.0	0.0	0.0	4.7	11.7	16.4	14.1	14.1	11.7	9.4	4.7
87.5°	0.0	0.0	0.0	0.0	0.0	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

REPORT NUMBER: P530911

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4	5551.4
2.5°	5469.3	5464.6	5356.9	5295.9	5185.8	5089.7	5012.4	4956.1	4956.1	4921.0	4888.2
5°	5314.7	5274.8	5045.2	4897.6	4689.0	4534.3	4428.9	4346.9	4218.0	4253.1	4114.9
7.5°	5122.5	5021.8	4717.1	4492.2	4203.9	3983.7	3758.7	3559.5	3367.4	3280.7	3327.5
10°	4916.3	4740.6	4330.5	3974.3	3615.8	3212.7	2950.3	2631.6	2434.7	2423.0	2371.5
12.5°	4698.4	4499.2	4000.1	3508.0	3037.0	2551.9	2151.2	1853.6	1720.0	1572.4	1600.5
15°	4534.3	4239.1	3632.2	3039.3	2413.6	1923.9	1520.8	1291.2	1164.6	1129.5	1117.8
17.5°	4356.3	4039.9	3257.2	2540.2	1893.4	1384.9	1094.3	984.2	935.0	935.0	928.0
20°	4171.1	3814.9	2884.6	2076.2	1420.1	1033.4	876.4	841.3	838.9	836.6	836.6
22.5°	4049.3	3557.2	2547.2	1649.7	1070.9	827.2	761.6	747.5	756.9	785.0	785.0
25°	3920.4	3308.8	2174.6	1272.4	829.5	710.0	672.5	681.9	705.3	731.1	721.7
27.5°	3789.2	3147.1	1823.1	998.3	679.6	621.0	606.9	628.0	653.8	677.2	670.2
30°	3758.7	2973.7	1490.4	756.9	583.5	541.3	550.7	569.4	595.2	604.6	614.0
32.5°	3805.6	2837.8	1220.9	621.0	508.5	496.8	496.8	506.2	522.6	543.7	536.6
35°	3939.1	2760.4	965.5	539.0	466.3	454.6	452.3	461.6	471.0	478.0	471.0
37.5°	4143.0	2699.5	789.7	478.0	438.2	419.5	414.8	412.4	421.8	424.1	428.8
40°	4403.1	2732.3	670.2	440.5	410.1	389.0	374.9	374.9	374.9	382.0	384.3
42.5°	4684.3	2776.8	578.8	419.5	384.3	358.5	344.5	339.8	344.5	353.8	351.5
45°	4979.6	2863.6	520.2	386.6	360.9	328.1	309.3	304.6	316.3	335.1	332.8
47.5°	5256.1	2987.7	475.7	365.6	337.4	307.0	283.5	278.9	299.9	325.7	328.1
50°	5532.6	3203.3	459.3	349.2	321.0	285.9	264.8	260.1	283.5	316.3	323.4
52.5°	5851.3	3435.3	447.6	328.1	302.3	269.5	246.0	241.4	267.1	309.3	311.7
55°	6059.9	3632.2	438.2	290.6	267.1	243.7	225.0	222.6	250.7	288.2	297.6
57.5°	5816.1	3358.0	405.4	253.1	227.3	215.6	199.2	199.2	222.6	257.8	264.8
60°	4410.1	2209.8	288.2	203.9	192.2	185.1	178.1	178.1	196.8	222.6	225.0
62.5°	2582.4	1190.4	185.1	164.0	164.0	157.0	145.3	145.3	164.0	178.1	180.4
65°	766.3	382.0	150.0	140.6	138.3	126.5	114.8	112.5	126.5	133.6	131.2
67.5°	220.3	175.7	124.2	117.2	114.8	96.1	89.0	86.7	89.0	84.4	82.0
70°	131.2	119.5	96.1	98.4	86.7	70.3	63.3	60.9	56.2	49.2	44.5
72.5°	72.6	72.6	70.3	75.0	60.9	46.9	39.8	32.8	25.8	21.1	18.7
75°	44.5	46.9	49.2	51.6	39.8	30.5	25.8	16.4	9.4	4.7	4.7
77.5°	30.5	32.8	35.1	37.5	32.8	28.1	21.1	11.7	2.3	0.0	0.0
80°	23.4	25.8	30.5	32.8	35.1	37.5	28.1	11.7	2.3	0.0	0.0
82.5°	25.8	28.1	35.1	32.8	32.8	32.8	25.8	11.7	2.3	0.0	0.0
85°	4.7	7.0	11.7	11.7	16.4	21.1	16.4	4.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)