

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: P531145

Luminaire Tested: **GALN-SA6B-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531145
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-SA6B-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 15680 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 243
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

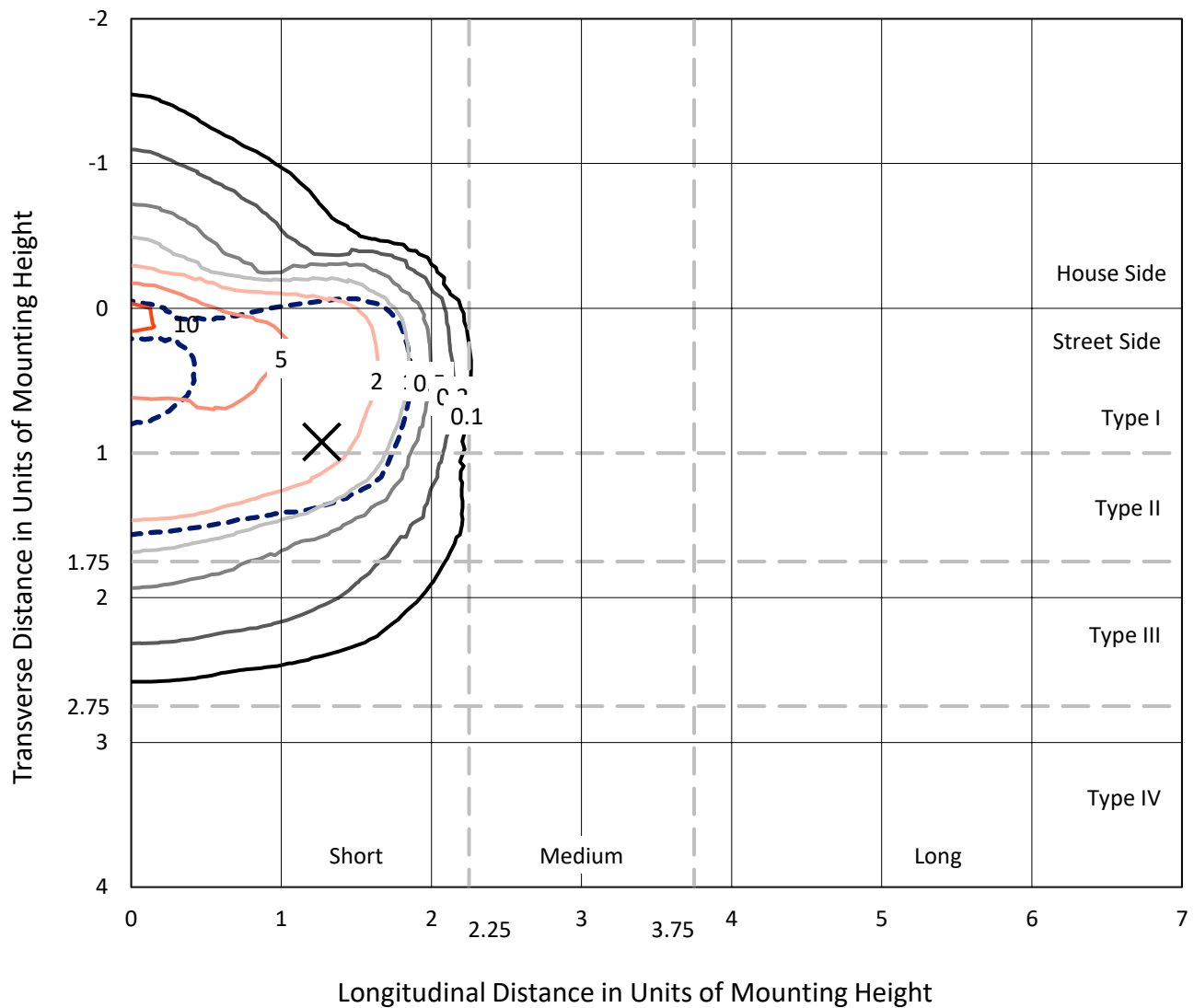


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

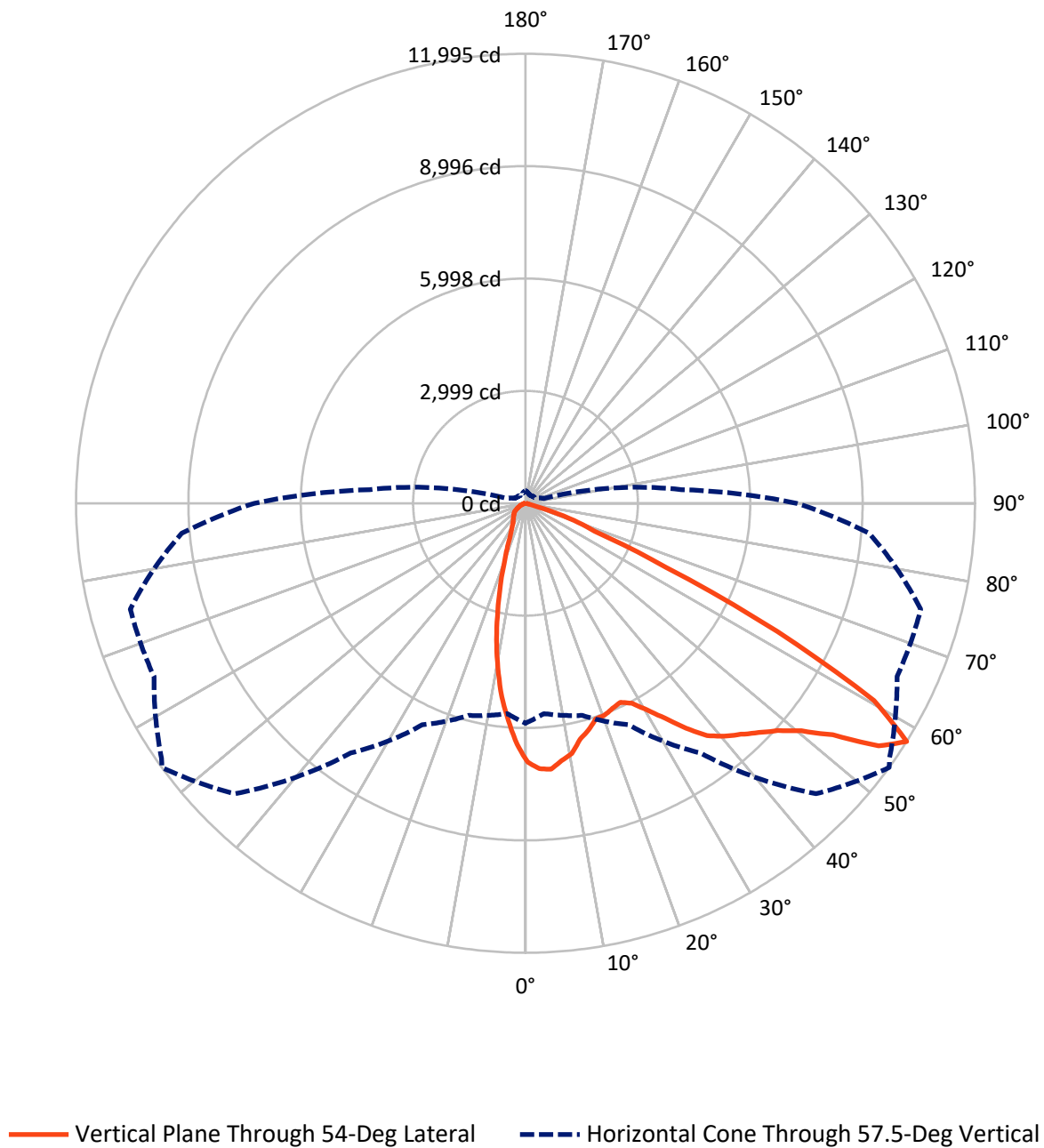


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2215.8	0.0	2215.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	13464.2	0.0	13464.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	15680.0	0.0	15680.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.0	3.7
10°-20°	1234.0	7.9
20°-30°	1635.4	10.4
30°-40°	2376.6	15.2
40°-50°	3524.2	22.5
50°-60°	4406.9	28.1
60°-70°	1738.3	11.1
70°-80°	173.1	1.1
80°-90°	13.5	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°	15680.0	100.0
0°-180°	15680.0	100.0

Coefficient of Utilization



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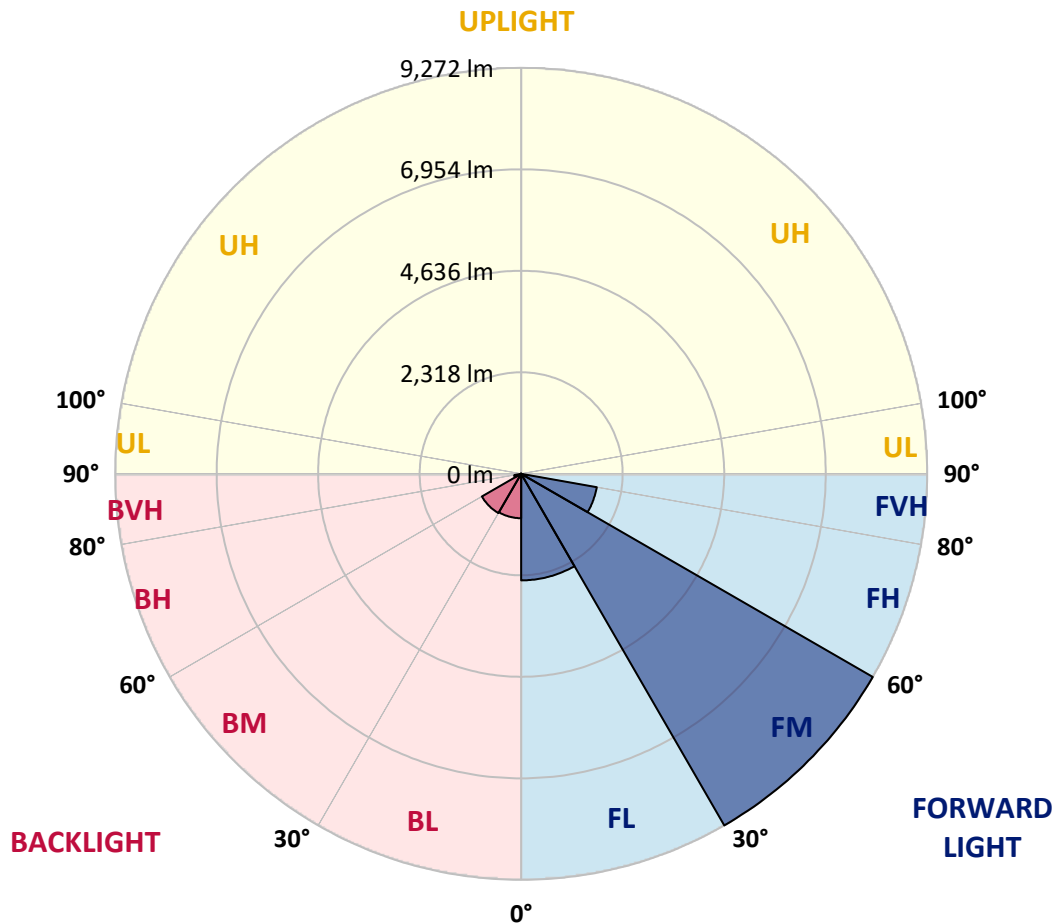
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2434.0	15.5			
FM	(30°-60°)	9271.5	59.1			
FH	(60°-80°)	1752.5	11.2			G1/1800
FVH	(80°-90°)	6.1	0.0			G0/10
BL	(0°-30°)	1013.4	6.5	B3/2500		
BM	(30°-60°)	1036.2	6.6	B2/2500		
BH	(60°-80°)	158.9	1.0	B1/500		G1/500
BVH	(80°-90°)	7.3	0.0			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3
2.5°	7309.6	7233.8	7239.6	7213.4	7178.4	7204.7	7090.9	7117.2	7114.3	6959.7	6857.7
5°	7125.9	7207.6	7123.0	7193.0	7125.9	7198.8	7128.8	7076.4	6991.8	6878.1	6688.6
7.5°	6813.9	6735.2	6758.6	6846.0	6860.6	7023.9	6936.4	7003.5	6968.5	6744.0	6484.5
10°	6187.1	6169.6	6286.2	6402.8	6545.7	6720.6	6787.7	6749.8	6723.6	6639.0	6292.0
12.5°	5706.0	5755.6	5752.6	5945.1	6187.1	6286.2	6461.2	6455.3	6601.1	6443.7	6111.3
15°	5248.2	5274.5	5396.9	5516.5	5784.7	6067.5	6283.3	6312.5	6487.4	6376.6	5971.3
17.5°	4968.3	4930.4	5026.6	5169.5	5443.6	5813.9	6053.0	6122.9	6362.0	6338.7	5811.0
20°	4691.3	4691.3	4770.1	4939.2	5189.9	5606.9	6032.5	6012.1	6362.0	6295.0	5638.9
22.5°	4598.0	4644.7	4665.1	4793.4	5090.8	5449.4	5945.1	5983.0	6411.6	6274.5	5563.1
25°	4726.3	4665.1	4670.9	4773.0	5052.9	5373.6	5880.9	5965.5	6502.0	6376.6	5501.9
27.5°	4746.7	4808.0	4825.5	4895.4	5082.0	5396.9	6041.3	6213.3	6726.5	6615.7	5519.4
30°	4924.6	4985.8	4982.9	5102.4	5230.7	5586.4	6399.9	6434.9	7190.1	6916.0	5627.3
32.5°	5140.3	5204.5	5224.9	5364.9	5466.9	5933.4	6837.3	6927.7	7636.2	7388.3	5910.1
35°	5408.6	5385.3	5478.6	5618.5	5837.2	6440.7	7370.8	7522.5	8117.3	8000.6	6201.7
37.5°	5743.9	5714.7	5805.1	6032.5	6329.9	7041.4	7863.6	7962.7	8467.1	8569.2	6741.1
40°	5980.1	5991.7	6265.8	6571.9	6886.8	7612.8	8175.6	8271.8	8712.1	9099.8	7149.3
42.5°	6373.7	6446.6	6776.0	7149.3	7478.7	8041.5	8429.2	8522.5	8825.8	9525.5	7700.3
45°	6945.2	6913.1	7277.5	7694.5	8058.9	8487.6	8729.6	8697.5	8892.8	9948.3	8047.3
47.5°	7679.9	7685.7	7927.7	8283.5	8662.5	8875.3	9064.9	8951.1	9032.8	10394.4	8510.9
50°	8181.4	8225.1	8420.5	8785.0	8974.5	9301.0	9543.0	9473.1	9446.8	10662.6	8802.4
52.5°	8309.7	8440.9	8545.9	9000.7	9443.9	9960.0	10269.0	10417.7	9951.2	10753.0	9172.7
55°	7341.7	7458.3	7828.6	8452.6	9621.8	11003.8	11429.5	11432.4	10610.2	11155.4	9432.2
57.5°	5869.3	5633.1	5860.5	6522.4	8134.8	10960.0	11995.1	11858.1	10939.6	10919.2	9207.7
60°	4058.6	4000.3	4014.9	4277.3	5630.2	8717.9	10688.9	10866.7	10073.7	9464.3	7289.2
62.5°	3216.0	3166.4	3102.3	3073.1	3495.9	5431.9	7540.0	7790.7	7044.3	6137.5	4321.0
65°	2519.1	2490.0	2498.7	2615.4	2612.5	3081.9	4122.8	4020.7	3218.9	2379.2	1358.7
67.5°	1699.8	1743.6	1778.6	2131.4	2312.1	2145.9	1991.4	1933.1	1046.7	440.3	300.3
70°	956.3	962.2	1000.1	1332.5	1755.2	1664.9	1373.3	1373.3	521.9	160.4	172.0
72.5°	521.9	504.4	469.4	574.4	781.4	793.1	612.3	533.6	154.5	105.0	96.2
75°	253.7	250.7	215.8	177.9	169.1	140.0	107.9	99.1	70.0	67.1	58.3
77.5°	52.5	49.6	26.2	26.2	29.2	32.1	40.8	40.8	49.6	49.6	40.8
80°	0.0	0.0	2.9	11.7	20.4	29.2	35.0	35.0	40.8	40.8	32.1
82.5°	0.0	0.0	2.9	8.7	17.5	26.2	32.1	35.0	40.8	43.7	35.0
85°	0.0	0.0	0.0	5.8	14.6	20.4	17.5	17.5	14.6	11.7	5.8
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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3	6907.3
2.5°	6805.2	6799.4	6665.2	6589.4	6452.4	6332.9	6236.6	6166.7	6166.7	6122.9	6082.1
5°	6612.8	6563.2	6277.5	6093.8	5834.3	5641.8	5510.6	5408.6	5248.2	5292.0	5119.9
7.5°	6373.7	6248.3	5869.3	5589.4	5230.7	4956.7	4676.8	4428.9	4189.8	4082.0	4140.3
10°	6117.1	5898.4	5388.2	4945.0	4498.9	3997.4	3670.8	3274.3	3029.4	3014.8	2950.7
12.5°	5845.9	5598.1	4977.1	4364.8	3778.7	3175.2	2676.6	2306.3	2140.1	1956.4	1991.4
15°	5641.8	5274.5	4519.3	3781.6	3003.2	2393.8	1892.3	1606.5	1449.1	1405.4	1390.8
17.5°	5420.3	5026.6	4052.8	3160.6	2355.9	1723.2	1361.6	1224.6	1163.4	1163.4	1154.6
20°	5189.9	4746.7	3589.2	2583.3	1766.9	1285.8	1090.5	1046.7	1043.8	1040.9	1040.9
22.5°	5038.3	4426.0	3169.3	2052.6	1332.5	1029.2	947.6	930.1	941.8	976.8	976.8
25°	4877.9	4116.9	2705.8	1583.2	1032.2	883.5	836.8	848.5	877.6	909.7	898.0
27.5°	4714.7	3915.8	2268.4	1242.1	845.5	772.7	755.2	781.4	813.5	842.6	833.9
30°	4676.8	3700.0	1854.4	941.8	726.0	673.5	685.2	708.5	740.6	752.2	763.9
32.5°	4735.1	3530.9	1519.1	772.7	632.7	618.1	618.1	629.8	650.2	676.4	667.7
35°	4901.3	3434.7	1201.3	670.6	580.2	565.6	562.7	574.4	586.1	594.8	586.1
37.5°	5154.9	3358.9	982.6	594.8	545.2	521.9	516.1	513.2	524.8	527.7	533.6
40°	5478.6	3399.7	833.9	548.1	510.2	484.0	466.5	466.5	466.5	475.3	478.2
42.5°	5828.4	3455.1	720.2	521.9	478.2	446.1	428.6	422.8	428.6	440.3	437.4
45°	6195.8	3563.0	647.3	481.1	449.0	408.2	384.9	379.0	393.6	416.9	414.0
47.5°	6539.9	3717.5	591.9	454.8	419.9	382.0	352.8	347.0	373.2	405.3	408.2
50°	6883.9	3985.7	571.5	434.4	399.4	355.7	329.5	323.6	352.8	393.6	402.4
52.5°	7280.5	4274.4	556.9	408.2	376.1	335.3	306.1	300.3	332.4	384.9	387.8
55°	7540.0	4519.3	545.2	361.5	332.4	303.2	279.9	277.0	312.0	358.6	370.3
57.5°	7236.7	4178.2	504.4	314.9	282.8	268.2	247.8	247.8	277.0	320.7	329.5
60°	5487.3	2749.5	358.6	253.7	239.1	230.3	221.6	221.6	244.9	277.0	279.9
62.5°	3213.1	1481.2	230.3	204.1	204.1	195.4	180.8	180.8	204.1	221.6	224.5
65°	953.4	475.3	186.6	174.9	172.0	157.4	142.9	140.0	157.4	166.2	163.3
67.5°	274.1	218.7	154.5	145.8	142.9	119.5	110.8	107.9	110.8	105.0	102.0
70°	163.3	148.7	119.5	122.5	107.9	87.5	78.7	75.8	70.0	61.2	55.4
72.5°	90.4	90.4	87.5	93.3	75.8	58.3	49.6	40.8	32.1	26.2	23.3
75°	55.4	58.3	61.2	64.1	49.6	37.9	32.1	20.4	11.7	5.8	5.8
77.5°	37.9	40.8	43.7	46.7	40.8	35.0	26.2	14.6	2.9	0.0	0.0
80°	29.2	32.1	37.9	40.8	43.7	46.7	35.0	14.6	2.9	0.0	0.0
82.5°	32.1	35.0	43.7	40.8	40.8	40.8	32.1	14.6	2.9	0.0	0.0
85°	5.8	8.7	14.6	14.6	20.4	26.2	20.4	5.8	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)