

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: P533719

Luminaire Tested: **GALN-SA9A-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533719
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-SA9A-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 19266 lumens
Efficiency: N/A
Efficacy: 70.3 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

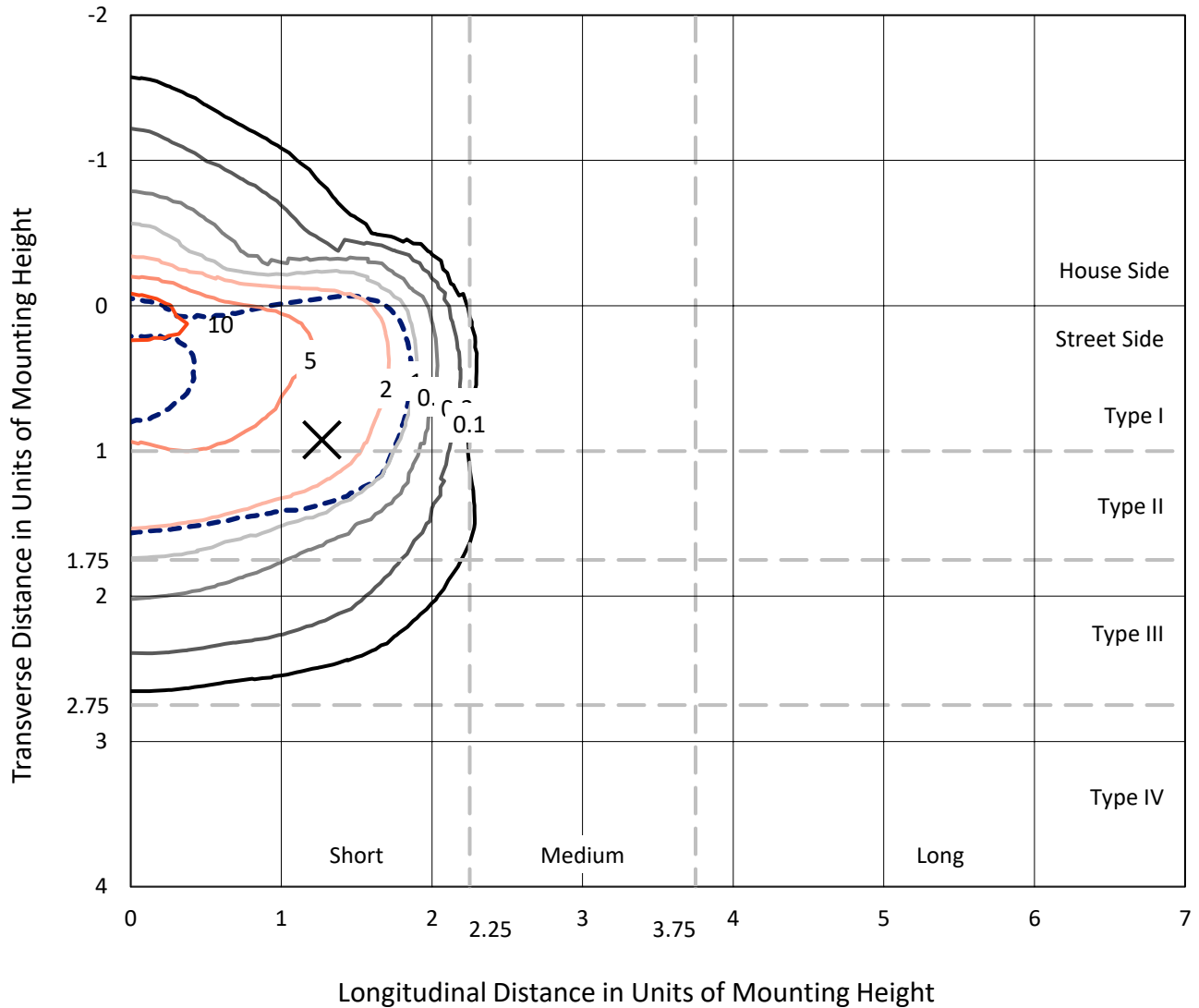
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

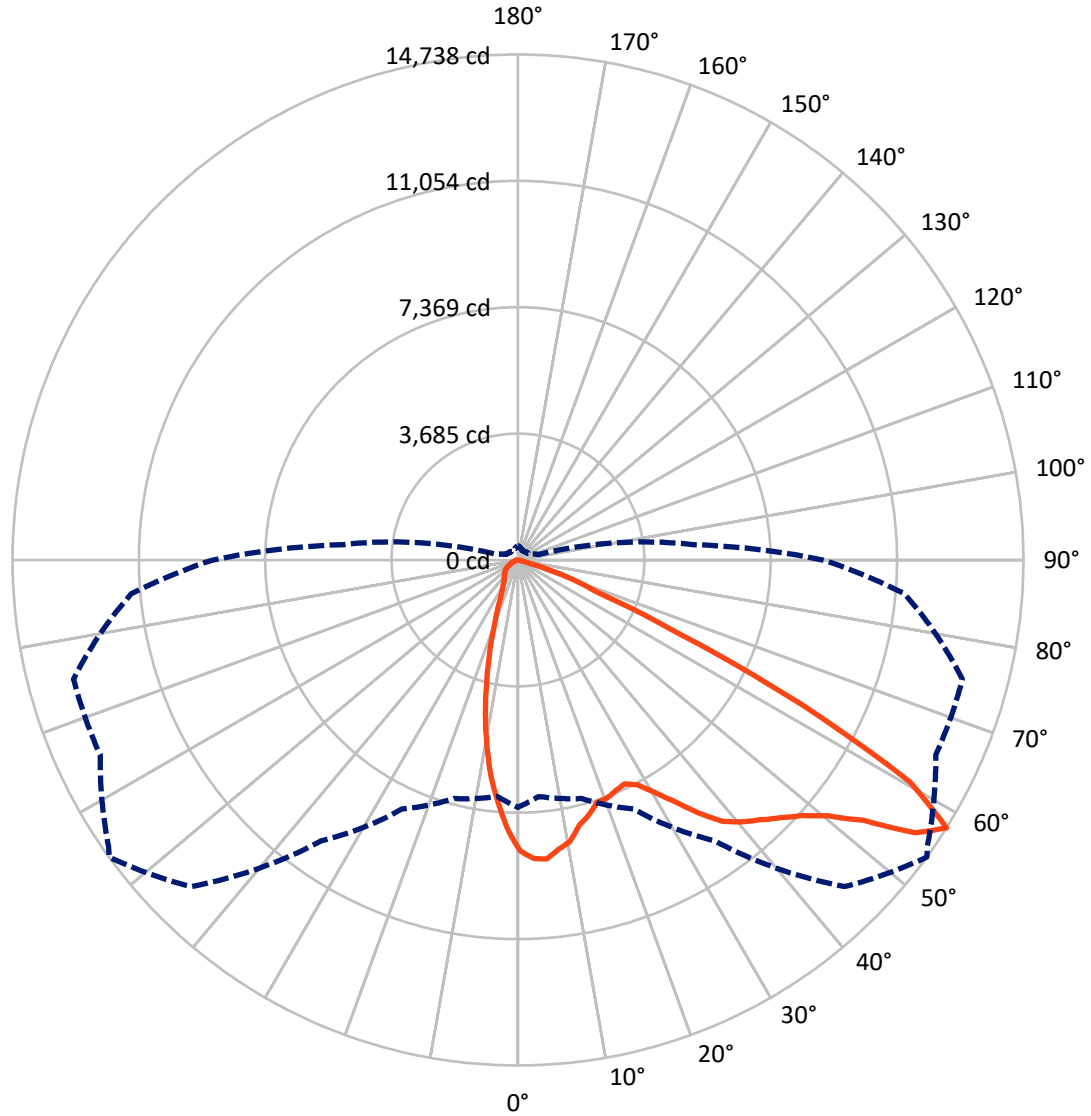
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2722.6	0.0	2722.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16543.4	0.0	16543.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	19266.0	0.0	19266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.2	3.7
10°-20°	1516.3	7.9
20°-30°	2009.4	10.4
30°-40°	2920.2	15.2
40°-50°	4330.2	22.5
50°-60°	5414.7	28.1
60°-70°	2135.9	11.1
70°-80°	212.7	1.1
80°-90°	16.5	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°	19266.0	100.0
0°-180°	19266.0	100.0

Coefficient of Utilization



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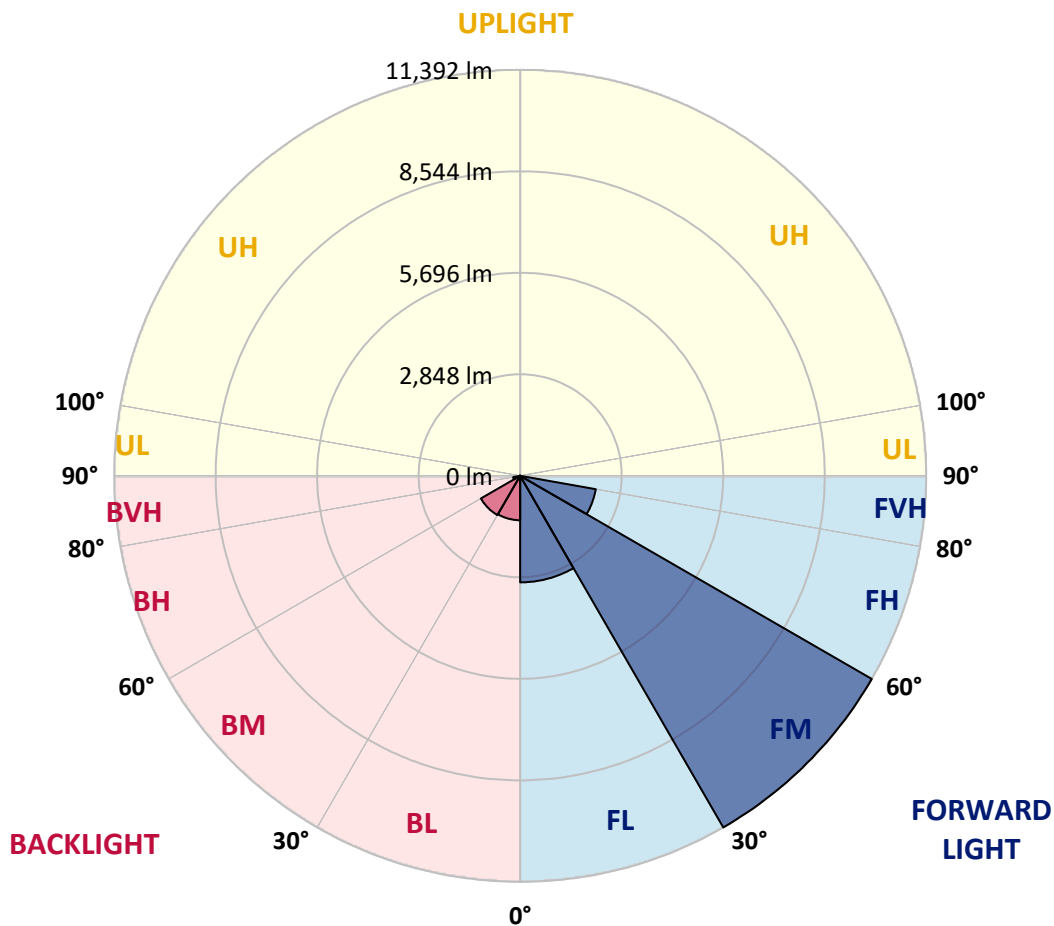
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2990.6	15.5			
FM (30°-60°)	11391.9	59.1			
FH (60°-80°)	2153.3	11.2			G2/5000
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	1245.2	6.5	B3/2500		
BM (30°-60°)	1273.2	6.6	B2/2500		
BH (60°-80°)	195.2	1.0	B1/500		G1/500
BVH (80°-90°)	9.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9
2.5°	8981.3	8888.2	8895.3	8863.1	8820.1	8852.3	8712.6	8744.9	8741.3	8551.4	8426.0
5°	8755.6	8855.9	8752.0	8838.0	8755.6	8845.2	8759.2	8694.7	8590.8	8451.1	8218.2
7.5°	8372.3	8275.6	8304.2	8411.7	8429.6	8630.2	8522.8	8605.2	8562.2	8286.3	7967.5
10°	7602.1	7580.6	7723.9	7867.2	8042.7	8257.7	8340.1	8293.5	8261.2	8157.3	7731.0
12.5°	7010.9	7071.8	7068.3	7304.7	7602.1	7723.9	7938.8	7931.6	8110.8	7917.3	7508.9
15°	6448.5	6480.7	6631.2	6778.1	7107.7	7455.2	7720.3	7756.1	7971.1	7834.9	7337.0
17.5°	6104.6	6058.0	6176.2	6351.8	6688.5	7143.5	7437.3	7523.2	7817.0	7788.3	7139.9
20°	5764.2	5764.2	5861.0	6068.7	6376.8	6889.1	7412.2	7387.1	7817.0	7734.6	6928.5
22.5°	5649.6	5706.9	5732.0	5889.6	6255.0	6695.7	7304.7	7351.3	7877.9	7709.5	6835.4
25°	5807.2	5732.0	5739.2	5864.5	6208.5	6602.5	7225.9	7329.8	7989.0	7834.9	6760.2
27.5°	5832.3	5907.5	5929.0	6015.0	6244.3	6631.2	7422.9	7634.3	8264.8	8128.7	6781.7
30°	6050.8	6126.1	6122.5	6269.4	6427.0	6864.1	7863.6	7906.6	8834.4	8497.7	6914.2
32.5°	6315.9	6394.8	6419.8	6591.8	6717.2	7290.4	8401.0	8512.0	9382.6	9078.0	7261.7
35°	6645.5	6616.9	6731.5	6903.5	7172.2	7913.7	9056.5	9242.8	9973.7	9830.4	7620.0
37.5°	7057.5	7021.7	7132.7	7412.2	7777.6	8651.7	9662.0	9783.8	10403.6	10529.0	8282.7
40°	7347.7	7362.0	7698.8	8074.9	8461.9	9353.9	10045.3	10163.5	10704.5	11181.0	8784.3
42.5°	7831.3	7920.9	8325.7	8784.3	9189.1	9880.5	10357.0	10471.6	10844.2	11704.0	9461.4
45°	8533.5	8494.1	8941.9	9454.2	9902.0	10428.6	10726.0	10686.6	10926.6	12223.5	9887.7
47.5°	9436.3	9443.5	9740.8	10177.9	10643.6	10905.1	11138.0	10998.3	11098.6	12771.6	10457.3
50°	10052.5	10106.2	10346.2	10794.1	11026.9	11428.2	11725.5	11639.5	11607.3	13101.2	10815.6
52.5°	10210.1	10371.3	10500.3	11059.2	11603.7	12237.8	12617.5	12800.3	12227.1	13212.2	11270.5
55°	9020.7	9164.0	9619.0	10385.7	11822.2	13520.3	14043.4	14047.0	13036.7	13706.6	11589.4
57.5°	7211.6	6921.4	7200.8	8014.0	9995.2	13466.6	14738.4	14570.0	13441.5	13416.4	11313.5
60°	4986.8	4915.2	4933.1	5255.5	6917.8	10711.7	13133.4	13352.0	12377.5	11628.8	8956.2
62.5°	3951.5	3890.6	3811.8	3776.0	4295.4	6674.2	9264.3	9572.4	8655.3	7541.2	5309.3
65°	3095.3	3059.5	3070.2	3213.5	3209.9	3786.7	5065.6	4940.3	3955.1	2923.3	1669.4
67.5°	2088.6	2142.3	2185.3	2618.8	2840.9	2636.7	2446.8	2375.2	1286.1	541.0	369.0
70°	1175.1	1182.2	1228.8	1637.2	2156.7	2045.6	1687.4	1687.4	641.3	197.0	211.4
72.5°	641.3	619.8	576.8	705.8	960.1	974.4	752.3	655.6	189.9	129.0	118.2
75°	311.7	308.1	265.1	218.5	207.8	172.0	132.6	121.8	86.0	82.4	71.6
77.5°	64.5	60.9	32.2	32.2	35.8	39.4	50.2	50.2	60.9	60.9	50.2
80°	0.0	0.0	3.6	14.3	25.1	35.8	43.0	43.0	50.2	50.2	39.4
82.5°	0.0	0.0	3.6	10.7	21.5	32.2	39.4	43.0	50.2	53.7	43.0
85°	0.0	0.0	0.0	7.2	17.9	25.1	21.5	21.5	17.9	14.3	7.2
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°	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9	8486.9
2.5°	8361.5	8354.4	8189.6	8096.4	7928.1	7781.2	7663.0	7577.0	7577.0	7523.2	7473.1
5°	8125.1	8064.2	7713.1	7487.4	7168.6	6932.1	6770.9	6645.5	6448.5	6502.2	6290.9
7.5°	7831.3	7677.3	7211.6	6867.6	6427.0	6090.2	5746.3	5441.8	5148.0	5015.5	5087.1
10°	7516.1	7247.4	6620.5	6075.9	5527.8	4911.6	4510.4	4023.1	3722.2	3704.3	3625.5
12.5°	7182.9	6878.4	6115.3	5363.0	4642.9	3901.3	3288.7	2833.8	2629.6	2403.9	2446.8
15°	6932.1	6480.7	5552.9	4646.5	3690.0	2941.2	2325.0	1974.0	1780.5	1726.8	1708.9
17.5°	6659.9	6176.2	4979.7	3883.4	2894.7	2117.3	1673.0	1504.6	1429.4	1429.4	1418.7
20°	6376.8	5832.3	4410.1	3174.1	2171.0	1579.9	1339.9	1286.1	1282.5	1279.0	1279.0
22.5°	6190.6	5438.2	3894.2	2522.1	1637.2	1264.6	1164.3	1142.8	1157.1	1200.1	1200.1
25°	5993.5	5058.5	3324.6	1945.3	1268.2	1085.5	1028.2	1042.5	1078.3	1117.7	1103.4
27.5°	5792.9	4811.3	2787.2	1526.1	1038.9	949.4	927.9	960.1	999.5	1035.3	1024.6
30°	5746.3	4546.2	2278.5	1157.1	892.0	827.6	841.9	870.5	910.0	924.3	938.6
32.5°	5818.0	4338.4	1866.5	949.4	777.4	759.5	759.5	773.8	798.9	831.1	820.4
35°	6022.2	4220.2	1476.0	824.0	712.9	695.0	691.4	705.8	720.1	730.8	720.1
37.5°	6333.9	4127.0	1207.3	730.8	669.9	641.3	634.1	630.5	644.8	648.4	655.6
40°	6731.5	4177.2	1024.6	673.5	626.9	594.7	573.2	573.2	573.2	583.9	587.5
42.5°	7161.4	4245.3	884.9	641.3	587.5	548.1	526.6	519.5	526.6	541.0	537.4
45°	7612.8	4377.8	795.3	591.1	551.7	501.5	472.9	465.7	483.6	512.3	508.7
47.5°	8035.5	4567.7	727.2	558.9	515.9	469.3	433.5	426.3	458.6	498.0	501.5
50°	8458.3	4897.3	702.2	533.8	490.8	437.1	404.8	397.7	433.5	483.6	494.4
52.5°	8945.5	5251.9	684.3	501.5	462.1	412.0	376.2	369.0	408.4	472.9	476.5
55°	9264.3	5552.9	669.9	444.2	408.4	372.6	343.9	340.3	383.3	440.6	455.0
57.5°	8891.8	5133.7	619.8	386.9	347.5	329.6	304.5	304.5	340.3	394.1	404.8
60°	6742.3	3378.3	440.6	311.7	293.8	283.0	272.3	272.3	300.9	340.3	343.9
62.5°	3947.9	1819.9	283.0	250.8	250.8	240.0	222.1	222.1	250.8	272.3	275.9
65°	1171.5	583.9	229.3	214.9	211.4	193.5	175.5	172.0	193.5	204.2	200.6
67.5°	336.8	268.7	189.9	179.1	175.5	146.9	136.1	132.6	136.1	129.0	125.4
70°	200.6	182.7	146.9	150.5	132.6	107.5	96.7	93.1	86.0	75.2	68.1
72.5°	111.1	111.1	107.5	114.6	93.1	71.6	60.9	50.2	39.4	32.2	28.7
75°	68.1	71.6	75.2	78.8	60.9	46.6	39.4	25.1	14.3	7.2	7.2
77.5°	46.6	50.2	53.7	57.3	50.2	43.0	32.2	17.9	3.6	0.0	0.0
80°	35.8	39.4	46.6	50.2	53.7	57.3	43.0	17.9	3.6	0.0	0.0
82.5°	39.4	43.0	53.7	50.2	50.2	50.2	39.4	17.9	3.6	0.0	0.0
85°	7.2	10.7	17.9	17.9	25.1	32.2	25.1	7.2	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)