

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: P193663

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL3-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16756 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 210
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: 25 FT

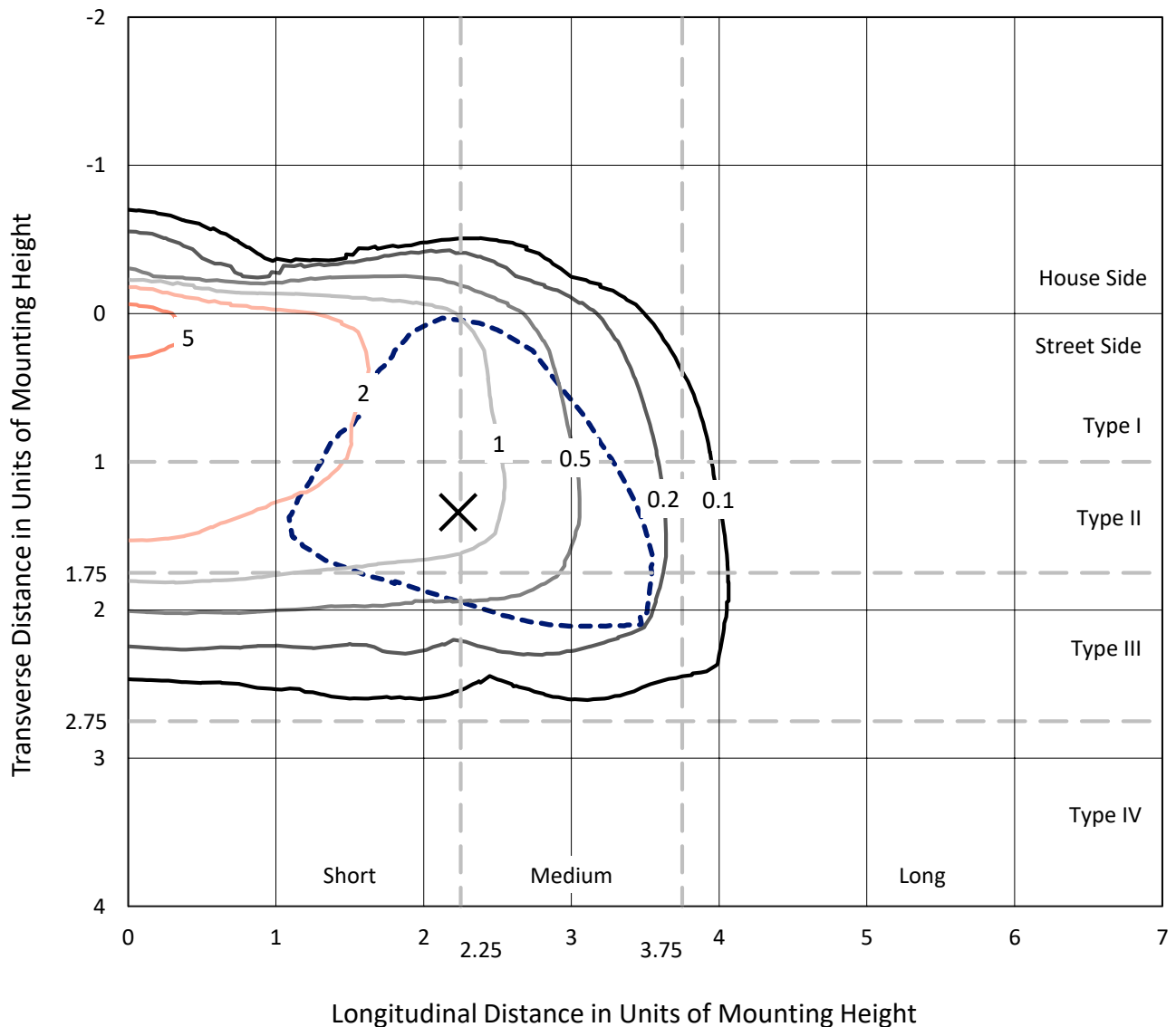


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

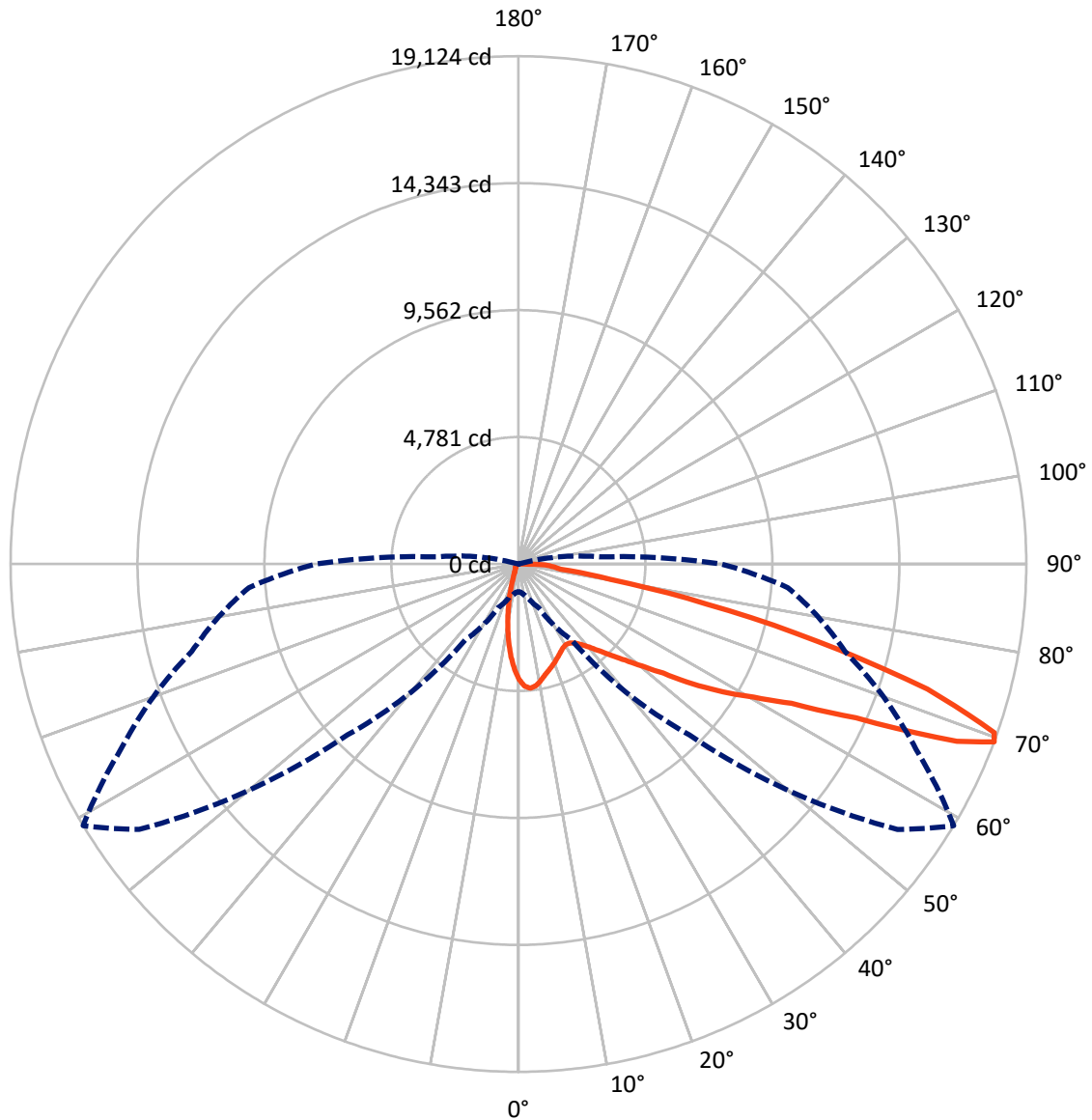


Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1364.6	0.0	1364.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	15391.4	0.0	15391.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	16756.0	0.0	16756.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.0	2.1
10°-20°	731.5	4.4
20°-30°	984.3	5.9
30°-40°	1429.2	8.5
40°-50°	2379.7	14.2
50°-60°	3712.2	22.2
60°-70°	4593.6	27.4
70°-80°	2328.0	13.9
80°-90°	243.6	1.5
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°	16756.0	100.0
0°-180°	16756.0	100.0



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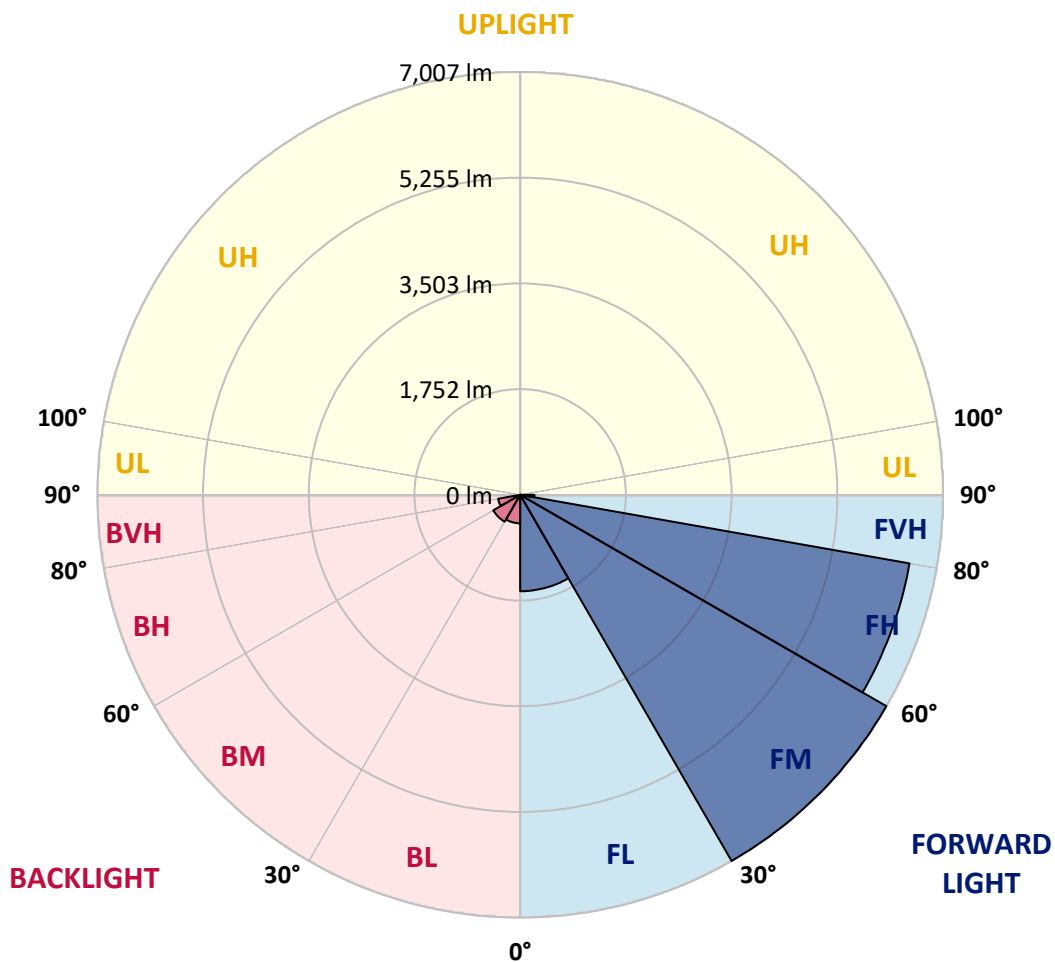
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1597.5	9.5			
FM	(30°-60°)	7006.9	41.8			
FH	(60°-80°)	6551.0	39.1			G3/7500
FVH	(80°-90°)	236.1	1.4			G3/500
BL	(0°-30°)	472.3	2.8	B1/500		
BM	(30°-60°)	514.2	3.1	B1/1000		
BH	(60°-80°)	370.6	2.2	B1/500		G1/500
BVH	(80°-90°)	7.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4
2.5°	4780.2	4778.3	4757.4	4747.9	4730.9	4694.9	4639.0	4609.6	4562.2	4479.8	4368.9
5°	4736.6	4759.3	4771.6	4772.6	4784.9	4771.6	4721.4	4696.8	4631.4	4498.7	4299.8
7.5°	4440.9	4449.5	4484.5	4514.9	4573.6	4629.5	4647.5	4637.1	4598.2	4456.1	4191.8
10°	4124.5	4133.0	4174.7	4214.5	4294.1	4380.3	4471.3	4490.2	4506.3	4395.5	4087.5
12.5°	3851.6	3860.1	3902.8	3954.9	4047.7	4153.9	4295.0	4326.3	4397.4	4337.7	4004.1
15°	3616.6	3620.4	3662.1	3726.5	3837.4	3973.8	4134.0	4184.2	4293.1	4296.9	3931.2
17.5°	3416.7	3426.2	3451.8	3513.3	3634.6	3803.3	3989.9	4061.9	4189.9	4262.8	3860.1
20°	3294.5	3303.9	3303.0	3337.1	3446.1	3626.1	3845.9	3932.1	4087.5	4227.8	3796.6
22.5°	3270.8	3270.8	3246.1	3241.4	3305.8	3456.5	3696.2	3801.4	3995.6	4212.6	3752.1
25°	3355.1	3351.3	3289.7	3239.5	3242.4	3332.4	3551.2	3676.3	3917.9	4223.0	3728.4
27.5°	3533.2	3528.5	3450.8	3355.1	3278.4	3277.4	3441.3	3575.9	3856.3	4272.3	3737.9
30°	3779.6	3777.7	3693.4	3573.0	3433.7	3305.8	3403.4	3525.7	3816.5	4361.4	3759.7
32.5°	4048.7	4045.8	3982.4	3855.4	3679.2	3433.7	3443.2	3545.6	3827.9	4479.8	3812.8
35°	4333.9	4329.1	4301.7	4190.8	3996.6	3669.7	3574.0	3653.6	3899.9	4657.0	3917.0
37.5°	4642.8	4647.5	4667.4	4561.3	4357.6	4000.4	3792.9	3846.9	4044.9	4897.6	4086.6
40°	5098.5	5097.6	5104.2	4964.9	4768.8	4404.9	4098.9	4116.0	4287.4	5217.0	4344.3
42.5°	5925.7	5867.9	5692.6	5408.3	5211.3	4867.3	4484.5	4466.5	4584.0	5612.1	4705.3
45°	7037.1	6913.9	6459.1	5914.3	5662.3	5388.4	4959.2	4901.4	4976.3	6086.8	5150.6
47.5°	7993.1	7865.2	7221.9	6441.1	6140.8	5883.0	5515.4	5411.2	5435.8	6618.3	5715.3
50°	8318.1	8255.6	7693.7	6899.7	6604.1	6505.6	6160.7	6033.7	5998.6	7233.2	6370.1
52.5°	8205.4	8200.6	7826.4	7197.2	7028.6	7149.9	6972.7	6825.8	6696.9	7881.3	7036.2
55°	8024.4	8048.1	7880.4	7457.8	7452.1	7738.3	8083.1	7960.9	7587.6	8585.3	7610.3
57.5°	7525.1	7626.4	7850.1	7950.5	8183.6	8476.4	9007.9	9079.9	8638.4	9124.5	8086.9
60°	6105.7	6328.4	7059.8	8021.6	9126.3	9855.9	10124.1	10185.7	9500.6	9572.6	8730.3
62.5°	4333.9	4561.3	5488.9	7115.7	9140.6	11668.5	11786.9	11545.3	10450.0	10236.8	9839.8
65°	2300.5	2475.8	3233.8	5136.4	7924.9	12089.2	14694.8	13974.7	12125.2	11543.4	11273.4
67.5°	1176.8	1229.9	1531.2	2513.7	5448.1	10738.0	17301.4	17808.3	15012.2	12839.6	11204.2
69°	1041.3	1072.6	1272.5	1817.3	3488.7	9095.1	17428.4	19124.4	16523.5	12731.6	10181.9
70°	1008.1	1035.6	1217.5	1644.9	2726.9	7627.4	16942.3	19008.8	16910.1	12320.4	9418.2
72.5°	855.6	879.3	1083.9	1453.5	2216.2	3786.2	13762.5	16107.5	15174.3	10263.3	6817.3
75°	572.3	650.0	1040.4	1362.5	2061.8	2150.8	9073.3	11640.1	10812.9	6922.5	3551.2
77.5°	137.4	147.8	293.7	1083.9	1885.5	1893.1	4666.5	7236.1	5902.0	2467.3	839.5
80°	73.9	71.1	82.4	215.1	1755.7	1776.6	2100.6	3512.4	2107.2	409.3	276.7
82.5°	52.1	49.3	53.1	90.0	552.4	1618.3	1519.8	1589.9	873.6	157.3	124.1
85°	19.0	18.0	29.4	81.5	173.4	930.4	1561.5	1311.3	707.8	72.0	91.0
87.5°	6.6	5.7	11.4	44.5	53.1	396.1	963.6	991.1	278.6	43.6	42.6
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°	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4	4361.4
2.5°	4322.5	4263.8	4155.7	4044.9	3942.6	3819.4	3757.8	3697.2	3671.6	3662.1	3617.6
5°	4197.4	4097.9	3868.7	3638.4	3426.2	3200.7	3051.9	2932.5	2862.4	2828.3	2774.3
7.5°	4037.3	3874.3	3526.6	3171.3	2840.6	2514.7	2273.1	2087.3	1959.4	1897.8	1841.9
10°	3881.9	3664.9	3170.3	2686.2	2237.1	1805.0	1471.5	1229.9	1075.4	1004.4	958.9
12.5°	3742.6	3461.2	2826.4	2213.4	1649.6	1143.6	804.4	612.1	516.4	483.2	467.1
15°	3618.5	3273.6	2501.4	1764.3	1117.1	653.8	439.6	374.3	359.1	359.1	357.2
17.5°	3501.0	3089.8	2187.8	1342.6	701.2	399.8	334.5	325.9	325.9	329.7	329.7
20°	3388.3	2914.5	1884.6	963.6	441.5	317.4	302.3	300.4	302.3	307.0	307.0
22.5°	3291.6	2755.3	1601.3	661.4	327.8	286.1	278.6	275.7	276.7	279.5	281.4
25°	3219.6	2620.8	1334.1	448.2	282.4	260.6	252.0	247.3	243.5	243.5	245.4
27.5°	3174.1	2507.1	1075.4	325.9	253.9	236.9	223.6	216.0	207.5	202.8	204.7
30°	3141.0	2399.1	832.9	266.2	227.4	210.3	193.3	181.0	168.7	163.0	164.9
32.5°	3128.7	2311.9	622.5	235.0	203.7	184.8	163.9	147.8	134.5	129.8	130.8
35°	3161.8	2242.7	455.7	212.2	184.8	161.1	137.4	119.4	109.0	106.1	107.1
37.5°	3249.0	2205.8	341.1	193.3	167.7	141.2	114.6	97.6	91.0	91.0	91.9
40°	3413.9	2204.8	273.8	180.0	152.5	122.2	94.8	82.4	78.6	80.5	81.5
42.5°	3654.5	2255.1	238.8	167.7	139.3	104.2	78.6	70.1	69.2	71.1	72.0
45°	3983.3	2347.0	219.8	157.3	125.1	87.2	66.3	60.6	60.6	63.5	64.4
47.5°	4386.0	2481.5	203.7	146.9	110.9	73.0	56.9	53.1	54.0	56.9	57.8
50°	4871.1	2651.1	187.6	135.5	100.4	60.6	49.3	46.4	47.4	51.2	52.1
52.5°	5423.5	2879.5	174.3	125.1	87.2	50.2	41.7	39.8	41.7	45.5	46.4
55°	5897.3	3084.1	158.2	116.5	70.1	41.7	34.1	34.1	36.0	40.7	41.7
57.5°	6353.0	3298.3	144.0	100.4	55.0	33.2	28.4	29.4	32.2	37.0	37.9
60°	7021.9	3661.2	127.0	84.3	41.7	26.5	23.7	24.6	28.4	33.2	34.1
62.5°	8158.0	4213.5	109.9	70.1	32.2	20.8	19.0	20.8	25.6	31.3	32.2
65°	9183.2	4438.1	90.0	58.7	24.6	16.1	16.1	19.0	24.6	30.3	31.3
67.5°	8611.9	3736.0	70.1	46.4	19.0	12.3	13.3	18.0	23.7	30.3	31.3
69°	7616.0	3054.7	59.7	37.0	16.1	11.4	12.3	18.0	23.7	29.4	30.3
70°	6840.0	2579.1	53.1	31.3	14.2	11.4	12.3	17.1	23.7	29.4	30.3
72.5°	4581.2	1392.8	42.6	22.7	13.3	10.4	10.4	17.1	22.7	28.4	29.4
75°	1968.9	384.7	34.1	16.1	11.4	9.5	9.5	16.1	21.8	27.5	29.4
77.5°	360.1	97.6	27.5	14.2	11.4	9.5	8.5	15.2	20.8	26.5	27.5
80°	143.1	48.3	21.8	12.3	10.4	8.5	7.6	14.2	19.9	25.6	26.5
82.5°	86.2	27.5	18.0	11.4	10.4	7.6	6.6	12.3	19.0	24.6	25.6
85°	70.1	19.0	14.2	11.4	9.5	7.6	5.7	11.4	17.1	23.7	24.6
87.5°	34.1	13.3	13.3	10.4	9.5	7.6	5.7	10.4	16.1	22.7	23.7
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)