

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: P191913

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191913
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-SL3-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA 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: 16745 lumens
Efficiency: N/A
Efficacy: 103.4 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): 162
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

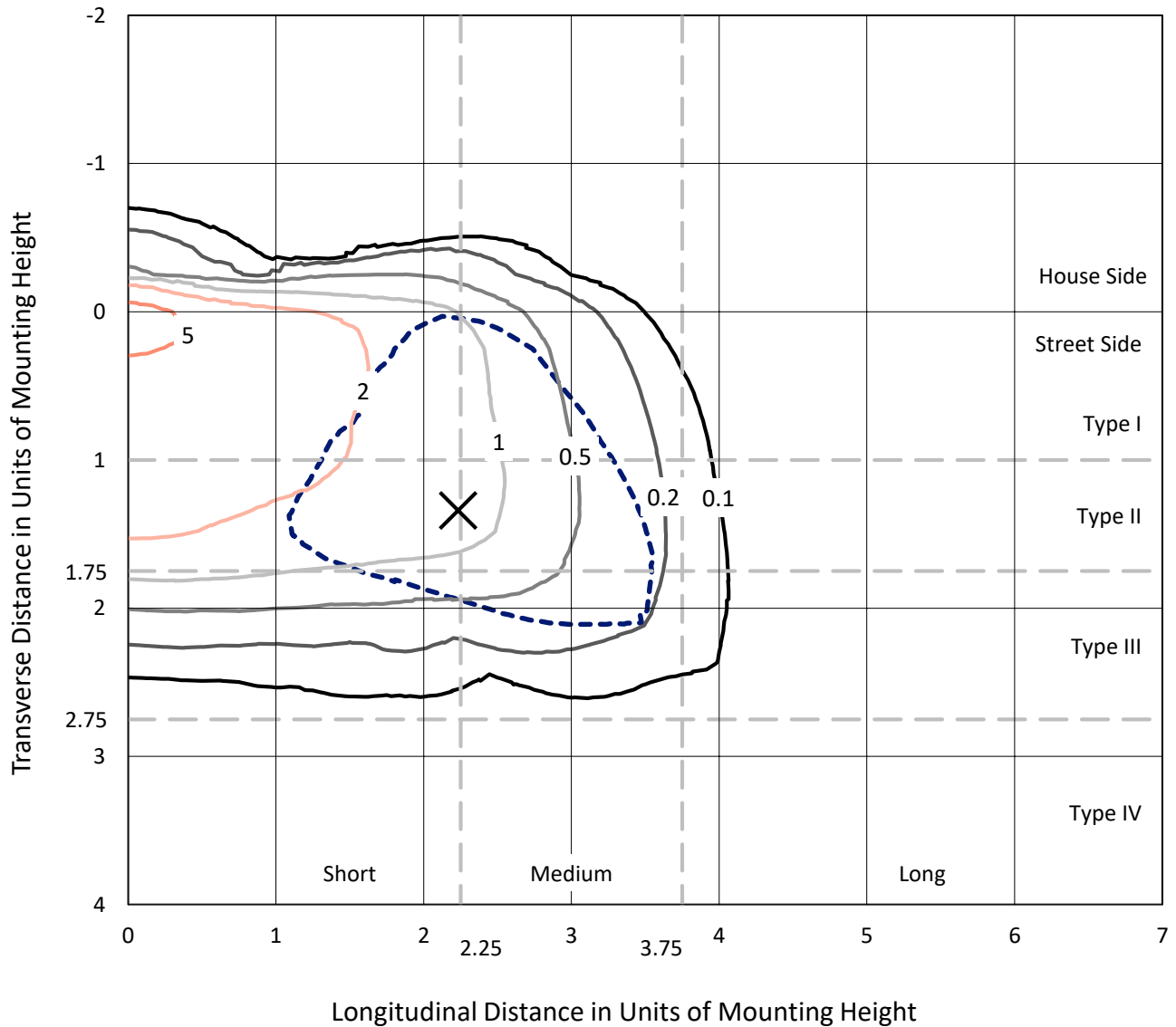


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

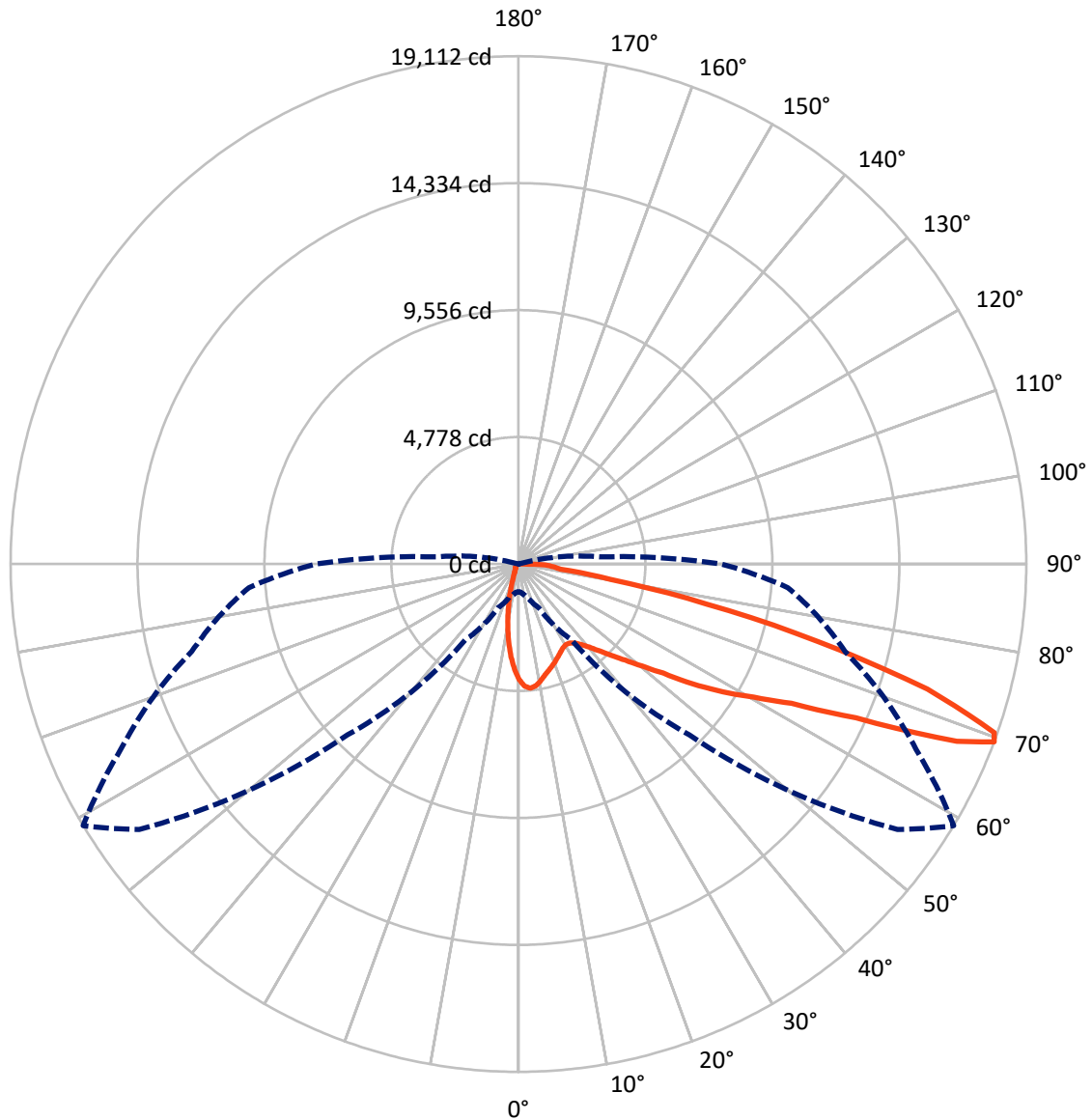


Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - Non-Cutoff

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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	1363.7	0.0	1363.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	15381.3	0.0	15381.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	16745.0	0.0	16745.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.8	2.1
10°-20°	731.0	4.4
20°-30°	983.7	5.9
30°-40°	1428.2	8.5
40°-50°	2378.1	14.2
50°-60°	3709.8	22.2
60°-70°	4590.6	27.4
70°-80°	2326.4	13.9
80°-90°	243.4	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°	16745.0	100.0
0°-180°	16745.0	100.0



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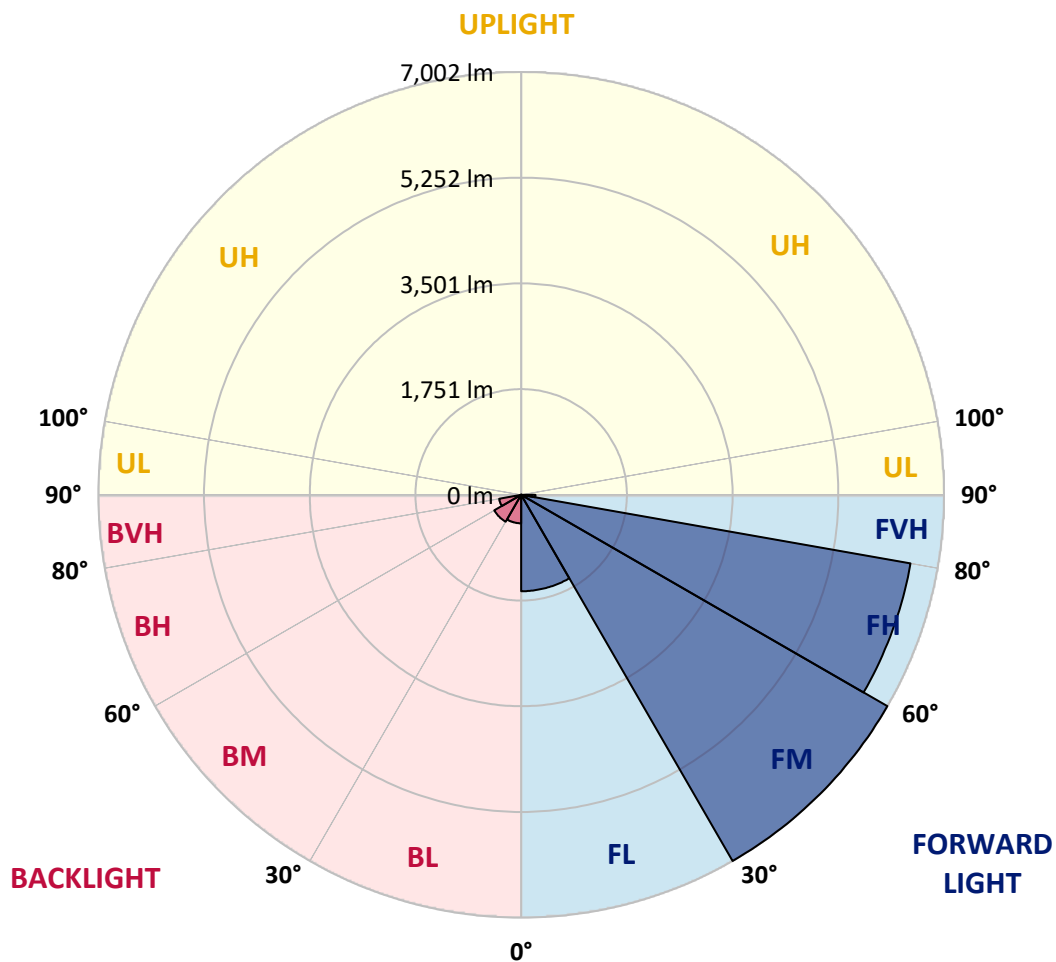
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1596.4	9.5			
FM	(30°-60°)	7002.3	41.8			
FH	(60°-80°)	6546.7	39.1			G3/7500
FVH	(80°-90°)	235.9	1.4			G3/500
BL	(0°-30°)	472.0	2.8	B1/500		
BM	(30°-60°)	513.8	3.1	B1/1000		
BH	(60°-80°)	370.3	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°	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5
2.5°	4777.0	4775.1	4754.3	4744.8	4727.8	4691.8	4635.9	4606.6	4559.2	4476.9	4366.1
5°	4733.5	4756.2	4768.5	4769.4	4781.7	4768.5	4718.3	4693.7	4628.4	4495.8	4296.9
7.5°	4438.0	4446.6	4481.6	4511.9	4570.6	4626.5	4644.4	4634.0	4595.2	4453.2	4189.0
10°	4121.8	4130.3	4172.0	4211.7	4291.3	4377.4	4468.3	4487.3	4503.4	4392.6	4084.8
12.5°	3849.1	3857.6	3900.2	3952.3	4045.1	4151.1	4292.2	4323.5	4394.5	4334.8	4001.5
15°	3614.2	3618.0	3659.7	3724.1	3834.9	3971.2	4131.2	4181.4	4290.3	4294.1	3928.6
17.5°	3414.5	3423.9	3449.5	3511.0	3632.2	3800.8	3987.3	4059.3	4187.1	4260.0	3857.6
20°	3292.3	3301.8	3300.8	3334.9	3443.8	3623.7	3843.4	3929.6	4084.8	4225.0	3794.2
22.5°	3268.6	3268.6	3244.0	3239.3	3303.7	3454.2	3693.8	3798.9	3993.0	4209.8	3749.6
25°	3352.9	3349.1	3287.6	3237.4	3240.2	3330.2	3548.9	3673.9	3915.4	4220.2	3726.0
27.5°	3530.9	3526.2	3448.5	3352.9	3276.2	3275.3	3439.1	3573.5	3853.8	4269.5	3735.4
30°	3777.1	3775.2	3690.9	3570.7	3431.5	3303.7	3401.2	3523.3	3814.0	4358.5	3757.2
32.5°	4046.0	4043.2	3979.7	3852.9	3676.7	3431.5	3441.0	3543.2	3825.4	4476.9	3810.2
35°	4331.0	4326.3	4298.8	4188.1	3993.9	3667.3	3571.6	3651.2	3897.4	4653.9	3914.4
37.5°	4639.7	4644.4	4664.3	4558.3	4354.7	3997.7	3790.4	3844.3	4042.2	4894.4	4083.9
40°	5095.2	5094.2	5100.8	4961.7	4765.7	4402.0	4096.2	4113.2	4284.6	5213.5	4341.4
42.5°	5921.8	5864.0	5688.9	5404.8	5207.8	4864.1	4481.6	4463.6	4581.0	5608.4	4702.2
45°	7032.5	6909.4	6454.9	5910.4	5658.6	5384.9	4956.0	4898.2	4973.0	6082.8	5147.2
47.5°	7987.9	7860.1	7217.1	6436.9	6136.7	5879.2	5511.8	5407.6	5432.3	6614.0	5711.6
50°	8312.7	8250.2	7688.7	6895.2	6599.8	6501.3	6156.6	6029.7	5994.7	7228.5	6365.9
52.5°	8200.0	8195.3	7821.2	7192.5	7024.0	7145.2	6968.1	6821.3	6692.6	7876.2	7031.5
55°	8019.1	8042.8	7875.2	7452.9	7447.2	7733.2	8077.8	7955.7	7582.6	8579.7	7605.3
57.5°	7520.1	7621.4	7844.9	7945.3	8178.2	8470.8	9002.0	9074.0	8632.7	9118.5	8081.6
60°	6101.7	6324.2	7055.2	8016.3	9120.4	9849.5	10117.4	10179.0	9494.4	9566.3	8724.6
62.5°	4331.0	4558.3	5485.3	7111.1	9134.6	11660.8	11779.2	11537.7	10443.1	10230.1	9833.4
65°	2299.0	2474.2	3231.7	5133.0	7919.7	12081.3	14685.2	13965.5	12117.2	11535.8	11266.0
67.5°	1176.0	1229.1	1530.2	2512.1	5444.6	10731.0	17290.0	17796.6	15002.4	12831.2	11196.9
69°	1040.6	1071.9	1271.7	1816.1	3486.4	9089.1	17416.9	19111.8	16512.7	12723.2	10175.2
70°	1007.5	1034.9	1216.7	1643.8	2725.1	7622.4	16931.2	18996.3	16899.0	12312.3	9412.0
72.5°	855.0	878.7	1083.2	1452.5	2214.8	3783.7	13753.4	16097.0	15164.3	10256.6	6812.8
75°	571.9	649.6	1039.7	1361.6	2060.4	2149.4	9067.3	11632.4	10805.8	6917.9	3548.9
77.5°	137.3	147.7	293.5	1083.2	1884.3	1891.9	4663.4	7231.3	5898.1	2465.7	838.9
80°	73.9	71.0	82.4	214.9	1754.6	1775.4	2099.2	3510.1	2105.9	409.1	276.5
82.5°	52.1	49.2	53.0	90.0	552.0	1617.3	1518.8	1588.9	873.0	157.2	124.0
85°	18.9	18.0	29.4	81.4	173.3	929.8	1560.5	1310.5	707.3	72.0	90.9
87.5°	6.6	5.7	11.4	44.5	53.0	395.8	963.0	990.4	278.4	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°	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5	4358.5
2.5°	4319.7	4261.0	4153.0	4042.2	3940.0	3816.9	3755.3	3694.7	3669.2	3659.7	3615.2
5°	4194.7	4095.3	3866.1	3636.0	3423.9	3198.6	3049.9	2930.6	2860.5	2826.4	2772.5
7.5°	4034.7	3871.8	3524.3	3169.2	2838.7	2513.0	2271.6	2086.0	1958.1	1896.6	1840.7
10°	3879.4	3662.5	3168.3	2684.4	2235.6	1803.8	1470.5	1229.1	1074.7	1003.7	958.2
12.5°	3740.2	3459.0	2824.5	2211.9	1648.5	1142.9	803.9	611.7	516.0	482.9	466.8
15°	3616.1	3271.5	2499.8	1763.1	1116.4	653.3	439.4	374.0	358.9	358.9	357.0
17.5°	3498.7	3087.8	2186.3	1341.7	700.7	399.6	334.2	325.7	325.7	329.5	329.5
20°	3386.0	2912.6	1883.3	963.0	441.2	317.2	302.1	300.2	302.1	306.8	306.8
22.5°	3289.5	2753.5	1600.2	660.9	327.6	286.0	278.4	275.5	276.5	279.3	281.2
25°	3217.5	2619.1	1333.2	447.9	282.2	260.4	251.9	247.1	243.3	243.3	245.2
27.5°	3172.1	2505.4	1074.7	325.7	253.8	236.7	223.5	215.9	207.4	202.6	204.5
30°	3138.9	2397.5	832.3	266.1	227.3	210.2	193.2	180.9	168.5	162.9	164.8
32.5°	3126.6	2310.4	622.1	234.8	203.6	184.6	163.8	147.7	134.5	129.7	130.7
35°	3159.7	2241.3	455.4	212.1	184.6	161.0	137.3	119.3	108.9	106.1	107.0
37.5°	3246.9	2204.3	340.9	193.2	167.6	141.1	114.6	97.5	90.9	90.9	91.8
40°	3411.6	2203.4	273.6	179.9	152.4	122.1	94.7	82.4	78.6	80.5	81.4
42.5°	3652.1	2253.6	238.6	167.6	139.2	104.2	78.6	70.1	69.1	71.0	72.0
45°	3980.7	2345.4	219.7	157.2	125.0	87.1	66.3	60.6	60.6	63.4	64.4
47.5°	4383.1	2479.9	203.6	146.8	110.8	72.9	56.8	53.0	54.0	56.8	57.8
50°	4867.9	2649.4	187.5	135.4	100.4	60.6	49.2	46.4	47.3	51.1	52.1
52.5°	5419.9	2877.6	174.2	125.0	87.1	50.2	41.7	39.8	41.7	45.5	46.4
55°	5893.4	3082.1	158.1	116.5	70.1	41.7	34.1	34.1	36.0	40.7	41.7
57.5°	6348.8	3296.1	143.9	100.4	54.9	33.1	28.4	29.4	32.2	36.9	37.9
60°	7017.3	3658.7	126.9	84.3	41.7	26.5	23.7	24.6	28.4	33.1	34.1
62.5°	8152.6	4210.8	109.8	70.1	32.2	20.8	18.9	20.8	25.6	31.2	32.2
65°	9177.2	4435.2	90.0	58.7	24.6	16.1	16.1	18.9	24.6	30.3	31.2
67.5°	8606.2	3733.6	70.1	46.4	18.9	12.3	13.3	18.0	23.7	30.3	31.2
69°	7611.0	3052.7	59.7	36.9	16.1	11.4	12.3	18.0	23.7	29.4	30.3
70°	6835.5	2577.4	53.0	31.2	14.2	11.4	12.3	17.0	23.7	29.4	30.3
72.5°	4578.2	1391.9	42.6	22.7	13.3	10.4	10.4	17.0	22.7	28.4	29.4
75°	1967.6	384.4	34.1	16.1	11.4	9.5	9.5	16.1	21.8	27.5	29.4
77.5°	359.8	97.5	27.5	14.2	11.4	9.5	8.5	15.2	20.8	26.5	27.5
80°	143.0	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	18.9	24.6	25.6
85°	70.1	18.9	14.2	11.4	9.5	7.6	5.7	11.4	17.0	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)