

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: P191941

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191941  
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-03-LED-E1-SL3-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 1200mA 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: 17031 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 191  
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

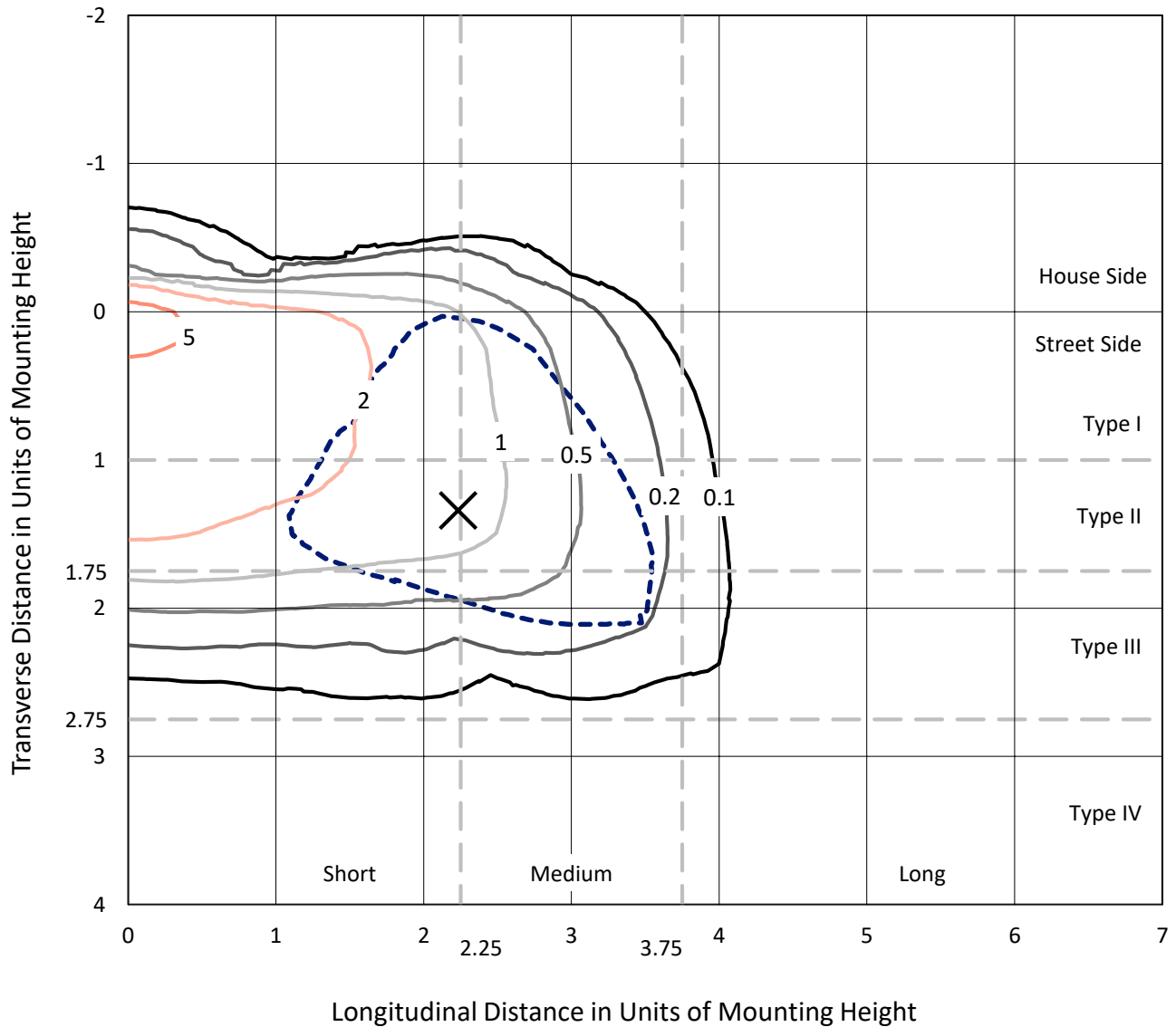


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

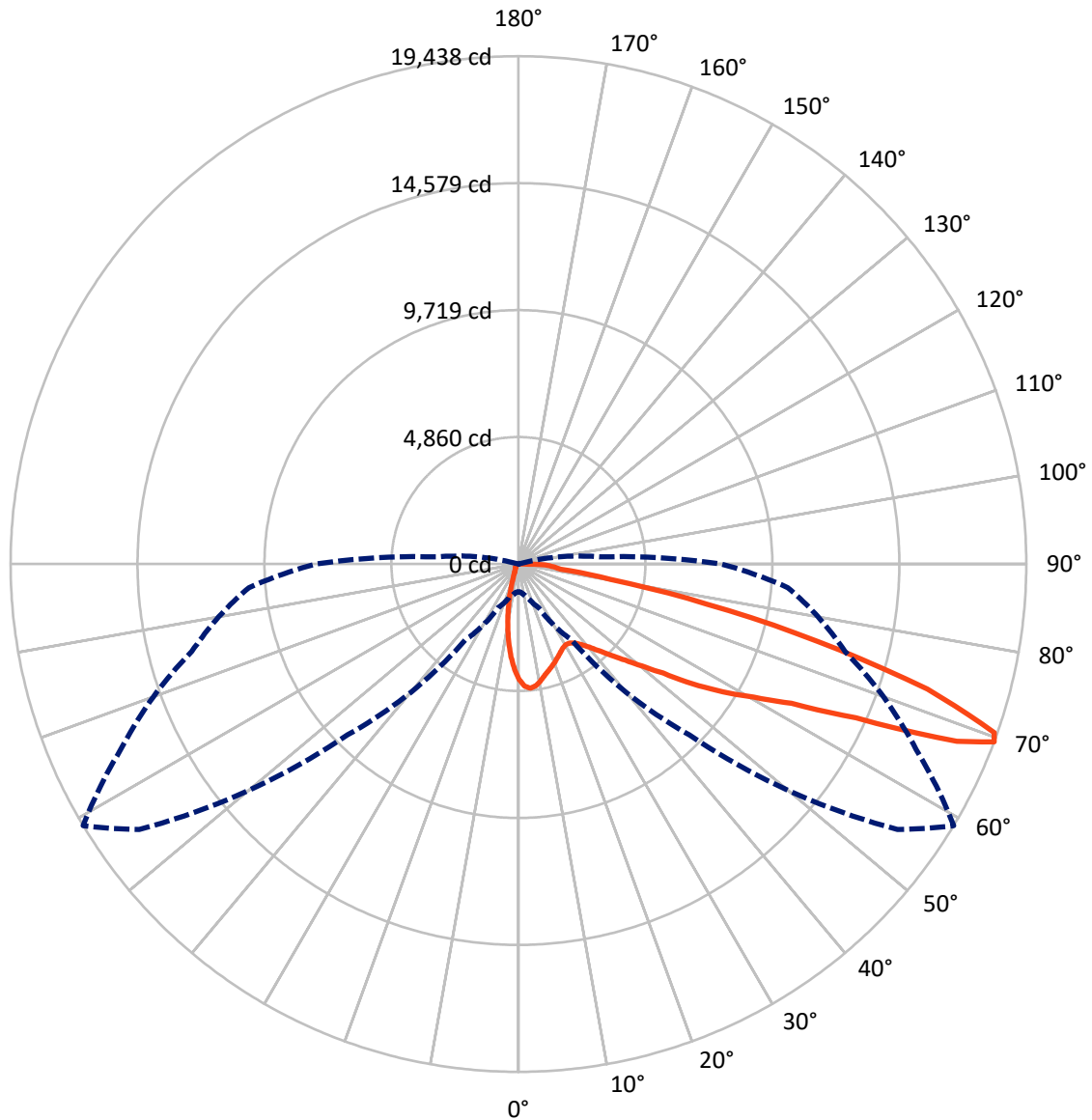


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	1387.0	0.0	1387.0
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	15644.0	0.0	15644.0
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	17031.0	0.0	17031.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.8	2.1
10°-20°	743.5	4.4
20°-30°	1000.5	5.9
30°-40°	1452.6	8.5
40°-50°	2418.7	14.2
50°-60°	3773.1	22.2
60°-70°	4669.0	27.4
70°-80°	2366.2	13.9
80°-90°	247.6	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°	17031.0	100.0
0°-180°	17031.0	100.0



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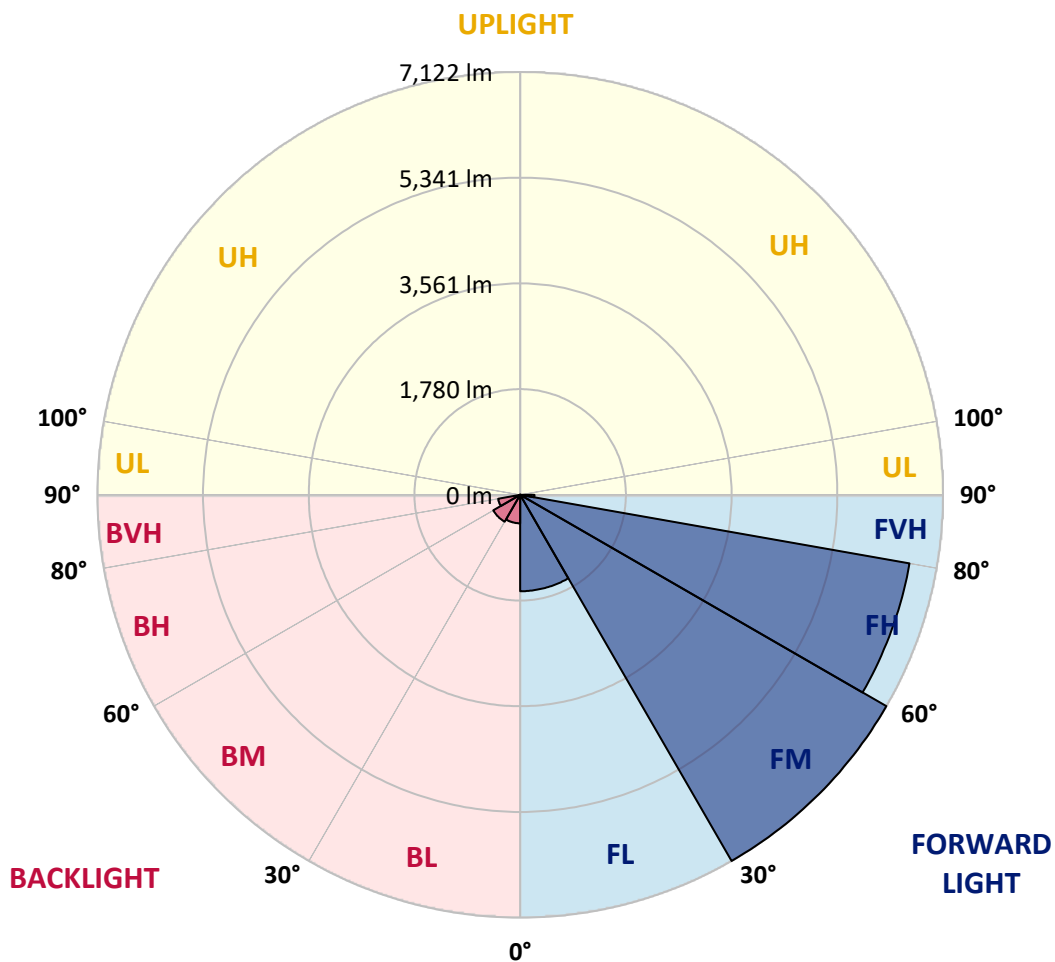
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1623.7	9.5			
FM (30°-60°)	7121.9	41.8			
FH (60°-80°)	6658.5	39.1			G3/7500
FVH (80°-90°)	240.0	1.4			G3/500
BL (0°-30°)	480.1	2.8	B1/500		
BM (30°-60°)	522.6	3.1	B1/1000		
BH (60°-80°)	376.7	2.2	B1/500		G1/500
BVH (80°-90°)	7.6	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°	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9
2.5°	4858.6	4856.7	4835.5	4825.9	4808.5	4771.9	4715.1	4685.3	4637.1	4553.3	4440.6
5°	4814.3	4837.4	4849.9	4850.9	4863.4	4849.9	4798.9	4773.9	4707.4	4572.6	4370.3
7.5°	4513.8	4522.5	4558.1	4588.9	4648.7	4705.5	4723.8	4713.2	4673.7	4529.2	4260.5
10°	4192.2	4200.8	4243.2	4283.7	4364.6	4452.2	4544.6	4563.9	4580.3	4467.6	4154.6
12.5°	3914.8	3923.5	3966.8	4019.8	4114.2	4222.0	4365.5	4397.3	4469.5	4408.9	4069.9
15°	3676.0	3679.8	3722.2	3787.7	3900.4	4039.0	4201.8	4252.8	4363.6	4367.4	3995.7
17.5°	3472.8	3482.4	3508.4	3571.0	3694.3	3865.7	4055.4	4128.6	4258.6	4332.8	3923.5
20°	3348.5	3358.2	3357.2	3391.9	3502.6	3685.6	3909.0	3996.7	4154.6	4297.1	3859.0
22.5°	3324.5	3324.5	3299.4	3294.6	3360.1	3513.2	3756.9	3863.8	4061.2	4281.7	3813.7
25°	3410.2	3406.3	3343.7	3292.7	3295.6	3387.1	3609.5	3736.6	3982.2	4292.3	3789.6
27.5°	3591.2	3586.4	3507.4	3410.2	3332.2	3331.2	3497.8	3634.6	3919.6	4342.4	3799.2
30°	3841.6	3839.7	3754.0	3631.7	3490.1	3360.1	3459.3	3583.5	3879.2	4432.9	3821.4
32.5°	4115.1	4112.2	4047.7	3918.7	3739.5	3490.1	3499.7	3603.7	3890.7	4553.3	3875.3
35°	4405.0	4400.2	4372.3	4259.6	4062.2	3729.9	3632.6	3713.5	3963.9	4733.4	3981.3
37.5°	4719.0	4723.8	4744.0	4636.1	4429.1	4066.0	3855.1	3910.0	4111.3	4978.0	4153.6
40°	5182.2	5181.2	5188.0	5046.4	4847.0	4477.2	4166.2	4183.5	4357.8	5302.6	4415.6
42.5°	6022.9	5964.2	5786.0	5497.1	5296.8	4947.2	4558.1	4539.8	4659.3	5704.2	4782.5
45°	7152.6	7027.4	6565.1	6011.4	5755.2	5476.9	5040.6	4981.9	5058.0	6186.7	5235.2
47.5°	8124.3	7994.3	7340.4	6546.8	6241.5	5979.6	5605.9	5500.0	5525.0	6726.9	5809.1
50°	8454.6	8391.1	7820.0	7013.0	6712.5	6612.3	6261.8	6132.7	6097.1	7351.9	6474.6
52.5°	8340.0	8335.2	7954.8	7315.4	7143.9	7267.2	7087.1	6937.8	6806.9	8010.7	7151.6
55°	8156.1	8180.2	8009.7	7580.2	7574.4	7865.3	8215.8	8091.6	7712.1	8726.2	7735.2
57.5°	7648.6	7751.6	7978.9	8081.0	8317.9	8615.5	9155.7	9228.9	8780.2	9274.2	8219.7
60°	6205.9	6432.2	7175.7	8153.2	9276.1	10017.7	10290.2	10352.8	9656.5	9729.7	8873.6
62.5°	4405.0	4636.1	5579.0	7232.5	9290.6	11860.0	11980.4	11734.8	10621.5	10404.8	10001.3
65°	2338.3	2516.5	3286.9	5220.7	8055.0	12287.6	14936.0	14204.1	12324.2	11732.9	11458.4
67.5°	1196.1	1250.0	1556.3	2555.0	5537.6	10914.3	17585.4	18100.6	15258.6	13050.3	11388.1
69°	1058.4	1090.2	1293.4	1847.1	3546.0	9244.3	17714.4	19438.3	16794.7	12940.5	10349.0
70°	1024.7	1052.6	1237.5	1671.9	2771.7	7752.6	17220.4	19320.8	17187.6	12522.6	9572.7
72.5°	869.6	893.7	1101.7	1477.3	2252.6	3848.4	13988.3	16371.9	15423.3	10431.8	6929.2
75°	581.7	660.7	1057.4	1384.9	2095.6	2186.1	9222.2	11831.1	10990.4	7036.1	3609.5
77.5°	139.6	150.2	298.5	1101.7	1916.5	1924.2	4743.0	7354.8	5998.9	2507.8	853.3
80°	75.1	72.2	83.8	218.6	1784.5	1805.7	2135.1	3570.0	2141.8	416.0	281.2
82.5°	53.0	50.1	53.9	91.5	561.5	1644.9	1544.7	1616.0	887.9	159.9	126.2
85°	19.3	18.3	29.9	82.8	176.2	945.7	1587.1	1332.9	719.4	73.2	92.5
87.5°	6.7	5.8	11.6	45.3	53.9	402.6	979.4	1007.4	283.1	44.3	43.3
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°	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9	4432.9
2.5°	4393.4	4333.7	4224.0	4111.3	4007.3	3882.1	3819.5	3757.8	3731.8	3722.2	3676.9
5°	4266.3	4165.2	3932.1	3698.1	3482.4	3253.2	3102.0	2980.6	2909.4	2874.7	2819.8
7.5°	4103.6	3937.9	3584.5	3223.3	2887.2	2555.9	2310.4	2121.6	1991.6	1929.0	1872.2
10°	3945.6	3725.1	3222.4	2730.3	2273.8	1834.6	1495.6	1250.0	1093.1	1020.8	974.6
12.5°	3804.1	3518.0	2872.8	2249.7	1676.7	1162.4	817.6	622.1	524.9	491.2	474.8
15°	3677.9	3327.3	2542.5	1793.2	1135.4	664.5	446.9	380.4	365.0	365.0	363.1
17.5°	3558.5	3140.5	2223.7	1364.6	712.7	406.4	340.0	331.3	331.3	335.1	335.1
20°	3443.9	2962.4	1915.5	979.4	448.8	322.6	307.2	305.3	307.2	312.0	312.0
22.5°	3345.6	2800.6	1627.6	672.2	333.2	290.8	283.1	280.2	281.2	284.1	286.0
25°	3272.5	2663.8	1356.0	455.5	287.0	264.8	256.2	251.4	247.5	247.5	249.4
27.5°	3226.2	2548.2	1093.1	331.3	258.1	240.8	227.3	219.6	210.9	206.1	208.0
30°	3192.5	2438.5	846.5	270.6	231.1	213.8	196.5	183.9	171.4	165.6	167.6
32.5°	3180.0	2349.8	632.7	238.8	207.1	187.8	166.6	150.2	136.8	131.9	132.9
35°	3213.7	2279.5	463.2	215.7	187.8	163.7	139.6	121.3	110.8	107.9	108.8
37.5°	3302.3	2242.0	346.7	196.5	170.5	143.5	116.5	99.2	92.5	92.5	93.4
40°	3469.9	2241.0	278.3	183.0	155.1	124.2	96.3	83.8	79.9	81.9	82.8
42.5°	3714.5	2292.1	242.7	170.5	141.6	105.9	79.9	71.3	70.3	72.2	73.2
45°	4048.7	2385.5	223.4	159.9	127.1	88.6	67.4	61.6	61.6	64.5	65.5
47.5°	4458.0	2522.2	207.1	149.3	112.7	74.2	57.8	53.9	54.9	57.8	58.7
50°	4951.1	2694.6	190.7	137.7	102.1	61.6	50.1	47.2	48.2	52.0	53.0
52.5°	5512.5	2926.7	177.2	127.1	88.6	51.0	42.4	40.4	42.4	46.2	47.2
55°	5994.0	3134.7	160.8	118.5	71.3	42.4	34.7	34.7	36.6	41.4	42.4
57.5°	6457.3	3352.4	146.4	102.1	55.9	33.7	28.9	29.9	32.7	37.6	38.5
60°	7137.2	3721.2	129.0	85.7	42.4	27.0	24.1	25.0	28.9	33.7	34.7
62.5°	8291.9	4282.7	111.7	71.3	32.7	21.2	19.3	21.2	26.0	31.8	32.7
65°	9333.9	4510.9	91.5	59.7	25.0	16.4	16.4	19.3	25.0	30.8	31.8
67.5°	8753.2	3797.3	71.3	47.2	19.3	12.5	13.5	18.3	24.1	30.8	31.8
69°	7741.0	3104.9	60.7	37.6	16.4	11.6	12.5	18.3	24.1	29.9	30.8
70°	6952.3	2621.4	53.9	31.8	14.4	11.6	12.5	17.3	24.1	29.9	30.8
72.5°	4656.4	1415.7	43.3	23.1	13.5	10.6	10.6	17.3	23.1	28.9	29.9
75°	2001.2	391.0	34.7	16.4	11.6	9.6	9.6	16.4	22.2	27.9	29.9
77.5°	366.0	99.2	27.9	14.4	11.6	9.6	8.7	15.4	21.2	27.0	27.9
80°	145.4	49.1	22.2	12.5	10.6	8.7	7.7	14.4	20.2	26.0	27.0
82.5°	87.6	27.9	18.3	11.6	10.6	7.7	6.7	12.5	19.3	25.0	26.0
85°	71.3	19.3	14.4	11.6	9.6	7.7	5.8	11.6	17.3	24.1	25.0
87.5°	34.7	13.5	13.5	10.6	9.6	7.7	5.8	10.6	16.4	23.1	24.1
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)