

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: P191922

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191922  
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-04-LED-E1-SL3-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 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: 16574 lumens  
Efficiency: N/A  
Efficacy: 96.9 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): 171  
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

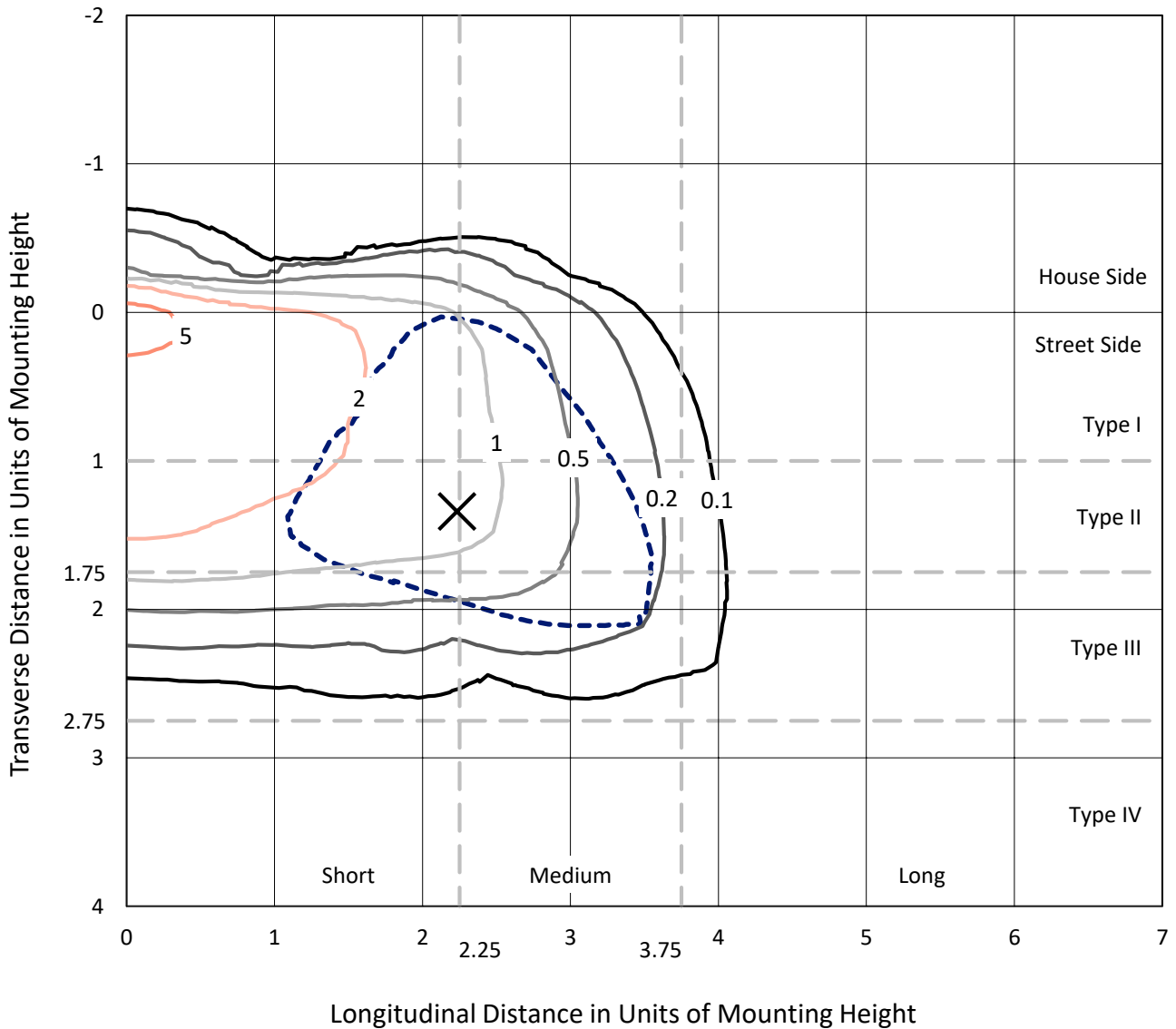


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

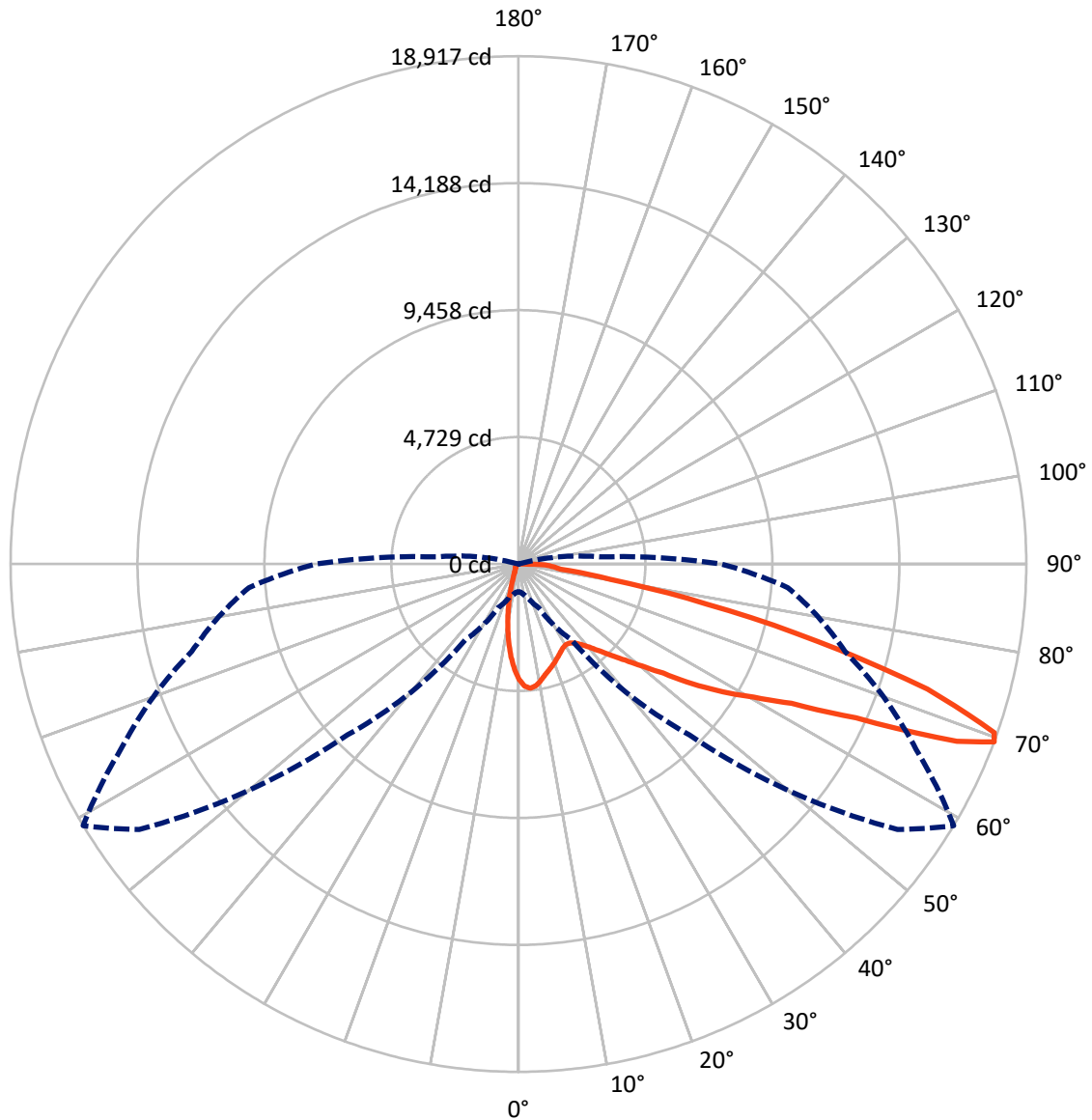


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - Non-Cutoff

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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	1349.7	0.0	1349.7
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	15224.3	0.0	15224.3
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	16574.0	0.0	16574.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.2	2.1
10°-20°	723.5	4.4
20°-30°	973.6	5.9
30°-40°	1413.6	8.5
40°-50°	2353.8	14.2
50°-60°	3671.9	22.2
60°-70°	4543.7	27.4
70°-80°	2302.7	13.9
80°-90°	240.9	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°	16574.0	100.0
0°-180°	16574.0	100.0



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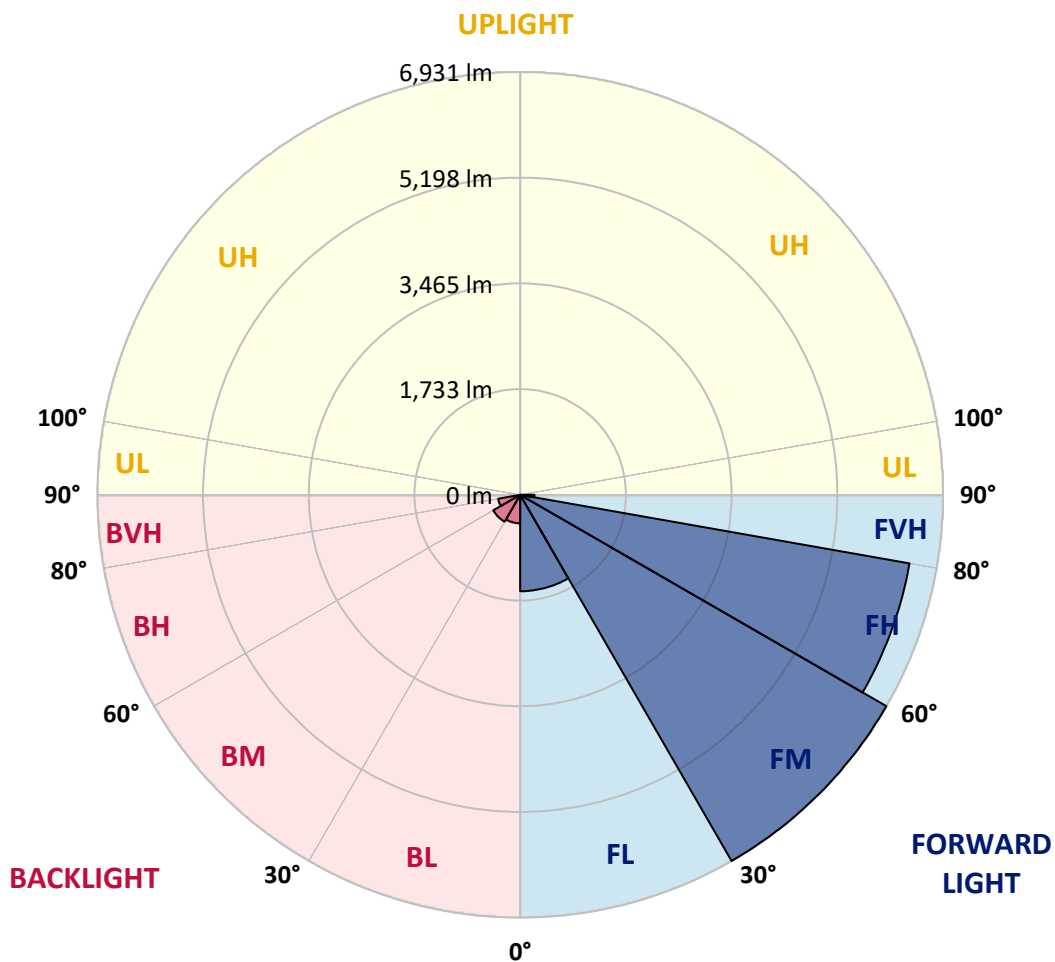
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1580.1	9.5			
FM	(30°-60°)	6930.8	41.8			
FH	(60°-80°)	6479.8	39.1			G3/7500
FVH	(80°-90°)	233.5	1.4			G3/500
BL	(0°-30°)	467.2	2.8	B1/500		
BM	(30°-60°)	508.6	3.1	B1/1000		
BH	(60°-80°)	366.6	2.2	B1/500		G1/500
BVH	(80°-90°)	7.4	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°	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0
2.5°	4728.2	4726.4	4705.7	4696.4	4679.5	4643.9	4588.6	4559.5	4512.7	4431.1	4321.5
5°	4685.1	4707.6	4719.8	4720.7	4732.9	4719.8	4670.1	4645.8	4581.1	4449.9	4253.1
7.5°	4392.7	4401.1	4435.8	4465.8	4523.9	4579.2	4597.0	4586.7	4548.3	4407.7	4146.2
10°	4079.7	4088.1	4129.4	4168.7	4247.4	4332.7	4422.7	4441.4	4457.4	4347.7	4043.1
12.5°	3809.8	3818.2	3860.4	3911.9	4003.8	4108.7	4248.4	4279.3	4349.6	4290.6	3960.7
15°	3577.3	3581.1	3622.3	3686.1	3795.7	3930.7	4089.1	4138.7	4246.5	4250.3	3888.5
17.5°	3379.6	3389.0	3414.3	3475.2	3595.1	3762.0	3946.6	4017.8	4144.3	4216.5	3818.2
20°	3258.7	3268.1	3267.1	3300.9	3408.6	3586.7	3804.1	3889.4	4043.1	4181.8	3755.4
22.5°	3235.3	3235.3	3210.9	3206.2	3269.9	3418.9	3656.1	3760.1	3952.2	4166.8	3711.4
25°	3318.7	3314.9	3254.0	3204.3	3207.1	3296.2	3512.7	3636.4	3875.4	4177.2	3687.9
27.5°	3494.9	3490.2	3413.3	3318.7	3242.8	3241.8	3404.0	3537.0	3814.4	4225.9	3697.3
30°	3738.5	3736.7	3653.2	3534.2	3396.5	3269.9	3366.5	3487.4	3775.1	4314.0	3718.9
32.5°	4004.7	4001.9	3939.1	3813.5	3639.2	3396.5	3405.8	3507.0	3786.3	4431.1	3771.3
35°	4286.8	4282.1	4254.9	4145.3	3953.2	3629.8	3535.2	3613.9	3857.6	4606.4	3874.4
37.5°	4592.3	4597.0	4616.7	4511.7	4310.2	3956.9	3751.7	3805.1	4001.0	4844.4	4042.2
40°	5043.1	5042.2	5048.8	4911.0	4717.0	4357.1	4054.4	4071.2	4240.9	5160.3	4297.1
42.5°	5861.3	5804.1	5630.8	5349.6	5154.7	4814.5	4435.8	4418.0	4534.2	5551.1	4654.2
45°	6960.7	6838.8	6389.0	5850.1	5600.8	5329.9	4905.4	4848.2	4922.2	6020.6	5094.7
47.5°	7906.3	7779.8	7143.4	6371.2	6074.1	5819.1	5455.5	5352.4	5376.8	6546.4	5653.3
50°	8227.8	8165.9	7610.2	6824.8	6532.4	6434.9	6093.7	5968.2	5933.5	7154.7	6300.9
52.5°	8116.2	8111.6	7741.4	7119.1	6952.2	7072.2	6896.9	6751.7	6624.2	7795.7	6959.7
55°	7937.2	7960.7	7794.8	7376.8	7371.2	7654.2	7995.3	7874.4	7505.2	8492.1	7527.7
57.5°	7443.3	7543.6	7764.8	7864.1	8094.7	8384.3	8910.1	8981.3	8544.6	9025.3	7999.1
60°	6039.4	6259.6	6983.2	7934.4	9027.2	9748.9	10014.1	10075.0	9397.4	9468.6	8635.5
62.5°	4286.8	4511.7	5429.3	7038.5	9041.3	11541.8	11658.9	11419.9	10336.5	10125.6	9732.9
65°	2275.5	2448.9	3198.7	5080.6	7838.8	11957.9	14535.2	13822.9	11993.5	11418.0	11150.9
67.5°	1164.0	1216.5	1514.5	2486.4	5389.0	10621.4	17113.5	17614.9	14849.2	12700.1	11082.5
69°	1030.0	1060.9	1258.7	1797.6	3450.8	8996.3	17239.1	18916.7	16344.0	12593.3	10071.3
70°	997.2	1024.4	1204.3	1627.0	2697.3	7544.5	16758.3	18802.3	16726.4	12186.6	9315.9
72.5°	846.3	869.7	1072.2	1437.7	2192.1	3745.1	13613.0	15932.6	15009.4	10151.9	6743.2
75°	566.1	642.9	1029.1	1347.7	2039.4	2127.5	8974.7	11513.6	10695.5	6847.3	3512.7
77.5°	135.9	146.2	290.5	1072.2	1865.1	1872.5	4615.8	7157.5	5837.9	2440.5	830.4
80°	73.1	70.3	81.5	212.7	1736.7	1757.3	2077.8	3474.2	2084.4	404.9	273.7
82.5°	51.5	48.7	52.5	89.0	546.4	1600.8	1503.3	1572.6	864.1	155.6	122.8
85°	18.7	17.8	29.1	80.6	171.5	920.3	1544.5	1297.1	700.1	71.2	90.0
87.5°	6.6	5.6	11.2	44.0	52.5	391.8	953.1	980.3	275.5	43.1	42.2
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°	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0
2.5°	4275.6	4217.5	4110.6	4001.0	3899.7	3777.9	3717.0	3657.0	3631.7	3622.3	3578.3
5°	4151.8	4053.4	3826.6	3598.9	3389.0	3165.9	3018.8	2900.7	2831.3	2797.6	2744.2
7.5°	3993.5	3832.3	3488.3	3136.8	2809.8	2487.4	2248.4	2064.7	1938.2	1877.2	1821.9
10°	3839.8	3625.1	3135.9	2657.0	2212.8	1785.4	1455.5	1216.5	1063.7	993.4	948.5
12.5°	3702.0	3423.6	2795.7	2189.3	1631.7	1131.2	795.7	605.4	510.8	478.0	462.0
15°	3579.2	3238.1	2474.2	1745.1	1105.0	646.7	434.9	370.2	355.2	355.2	353.3
17.5°	3463.0	3056.2	2164.0	1328.0	693.5	395.5	330.8	322.4	322.4	326.1	326.1
20°	3351.5	2882.9	1864.1	953.1	436.7	314.0	299.0	297.1	299.0	303.7	303.7
22.5°	3255.9	2725.4	1583.9	654.2	324.3	283.0	275.5	272.7	273.7	276.5	278.4
25°	3184.6	2592.3	1319.6	443.3	279.3	257.7	249.3	244.6	240.9	240.9	242.7
27.5°	3139.7	2479.9	1063.7	322.4	251.2	234.3	221.2	213.7	205.2	200.6	202.4
30°	3106.9	2373.0	823.8	263.4	224.9	208.1	191.2	179.0	166.8	161.2	163.1
32.5°	3094.7	2286.8	615.7	232.4	201.5	182.8	162.1	146.2	133.1	128.4	129.3
35°	3127.5	2218.4	450.8	209.9	182.8	159.3	135.9	118.1	107.8	105.0	105.9
37.5°	3213.7	2181.8	337.4	191.2	165.9	139.6	113.4	96.5	90.0	90.0	90.9
40°	3376.8	2180.9	270.9	178.1	150.9	120.9	93.7	81.5	77.8	79.7	80.6
42.5°	3614.8	2230.6	236.2	165.9	137.8	103.1	77.8	69.4	68.4	70.3	71.2
45°	3940.0	2321.5	217.4	155.6	123.7	86.2	65.6	60.0	60.0	62.8	63.7
47.5°	4338.4	2454.6	201.5	145.3	109.7	72.2	56.2	52.5	53.4	56.2	57.2
50°	4818.2	2622.3	185.6	134.0	99.3	60.0	48.7	45.9	46.9	50.6	51.5
52.5°	5364.6	2848.2	172.4	123.7	86.2	49.7	41.2	39.4	41.2	45.0	45.9
55°	5833.2	3050.6	156.5	115.3	69.4	41.2	33.7	33.7	35.6	40.3	41.2
57.5°	6284.0	3262.4	142.5	99.3	54.4	32.8	28.1	29.1	31.9	36.6	37.5
60°	6945.7	3621.4	125.6	83.4	41.2	26.2	23.4	24.4	28.1	32.8	33.7
62.5°	8069.4	4167.8	108.7	69.4	31.9	20.6	18.7	20.6	25.3	30.9	31.9
65°	9083.5	4389.9	89.0	58.1	24.4	15.9	15.9	18.7	24.4	30.0	30.9
67.5°	8518.3	3695.4	69.4	45.9	18.7	12.2	13.1	17.8	23.4	30.0	30.9
69°	7533.3	3021.6	59.0	36.6	15.9	11.2	12.2	17.8	23.4	29.1	30.0
70°	6765.7	2551.1	52.5	30.9	14.1	11.2	12.2	16.9	23.4	29.1	30.0
72.5°	4531.4	1377.7	42.2	22.5	13.1	10.3	10.3	16.9	22.5	28.1	29.1
75°	1947.5	380.5	33.7	15.9	11.2	9.4	9.4	15.9	21.6	27.2	29.1
77.5°	356.1	96.5	27.2	14.1	11.2	9.4	8.4	15.0	20.6	26.2	27.2
80°	141.5	47.8	21.6	12.2	10.3	8.4	7.5	14.1	19.7	25.3	26.2
82.5°	85.3	27.2	17.8	11.2	10.3	7.5	6.6	12.2	18.7	24.4	25.3
85°	69.4	18.7	14.1	11.2	9.4	7.5	5.6	11.2	16.9	23.4	24.4
87.5°	33.7	13.1	13.1	10.3	9.4	7.5	5.6	10.3	15.9	22.5	23.4
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)