

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: P193738

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-8030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-SL4-8030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25708 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G4

Input Watts (W): 323  
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

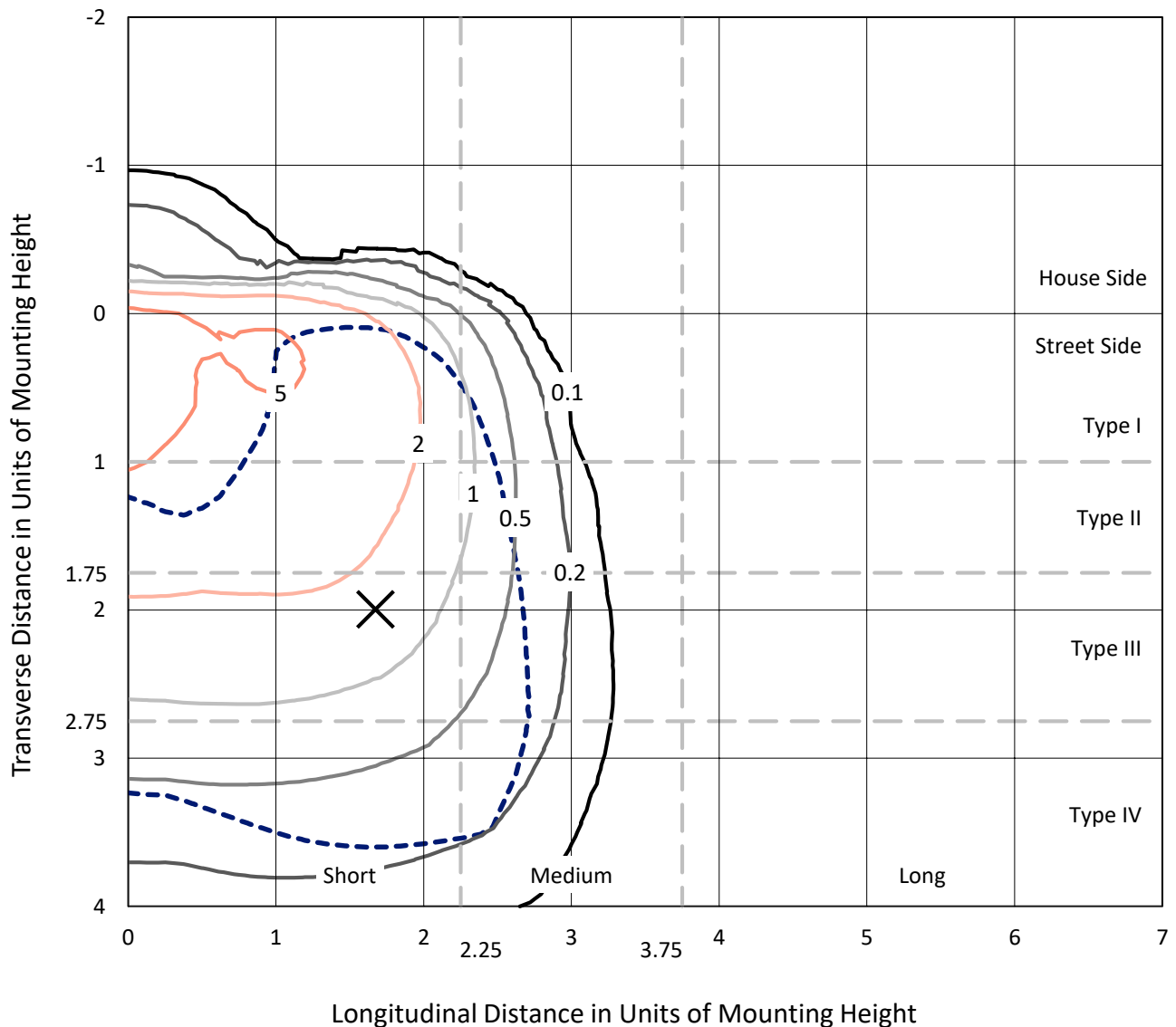


REPORT NUMBER: P193738

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-8030-600-HSS

### Iso-Footcandle Lines of Horizontal Illumination

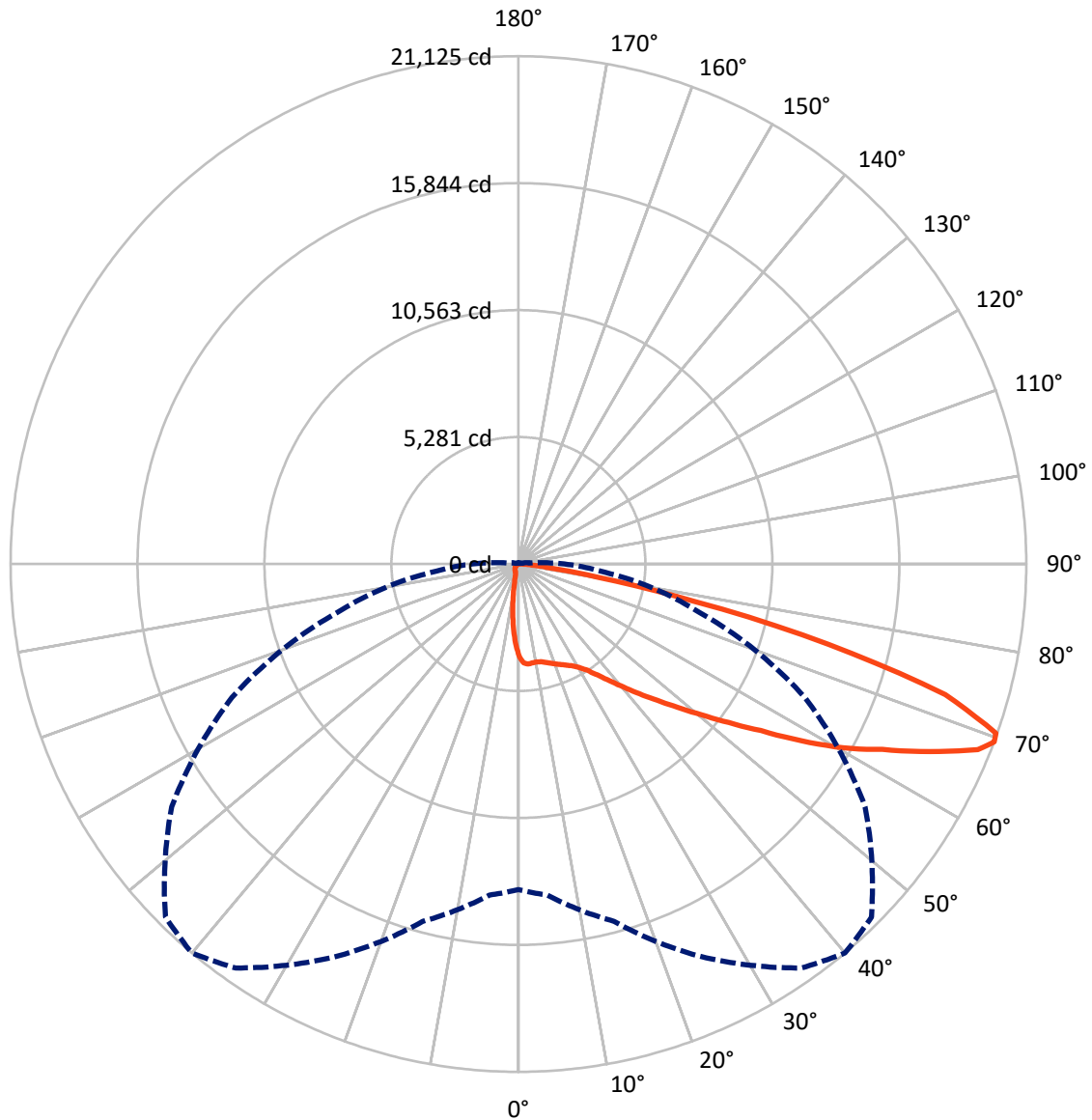
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - Semi-Cutoff

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CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-8030-600-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-8030-600-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1504.1	0.0	1504.1
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	24203.9	0.0	24203.9
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	25708.0	0.0	25708.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.4	1.2
10°-20°	765.8	3.0
20°-30°	1289.9	5.0
30°-40°	2111.7	8.2
40°-50°	3656.3	14.2
50°-60°	5759.0	22.4
60°-70°	7521.1	29.3
70°-80°	3873.7	15.1
80°-90°	419.0	1.6
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°	25708.0	100.0
0°-180°	25708.0	100.0



REPORT NUMBER: P193738

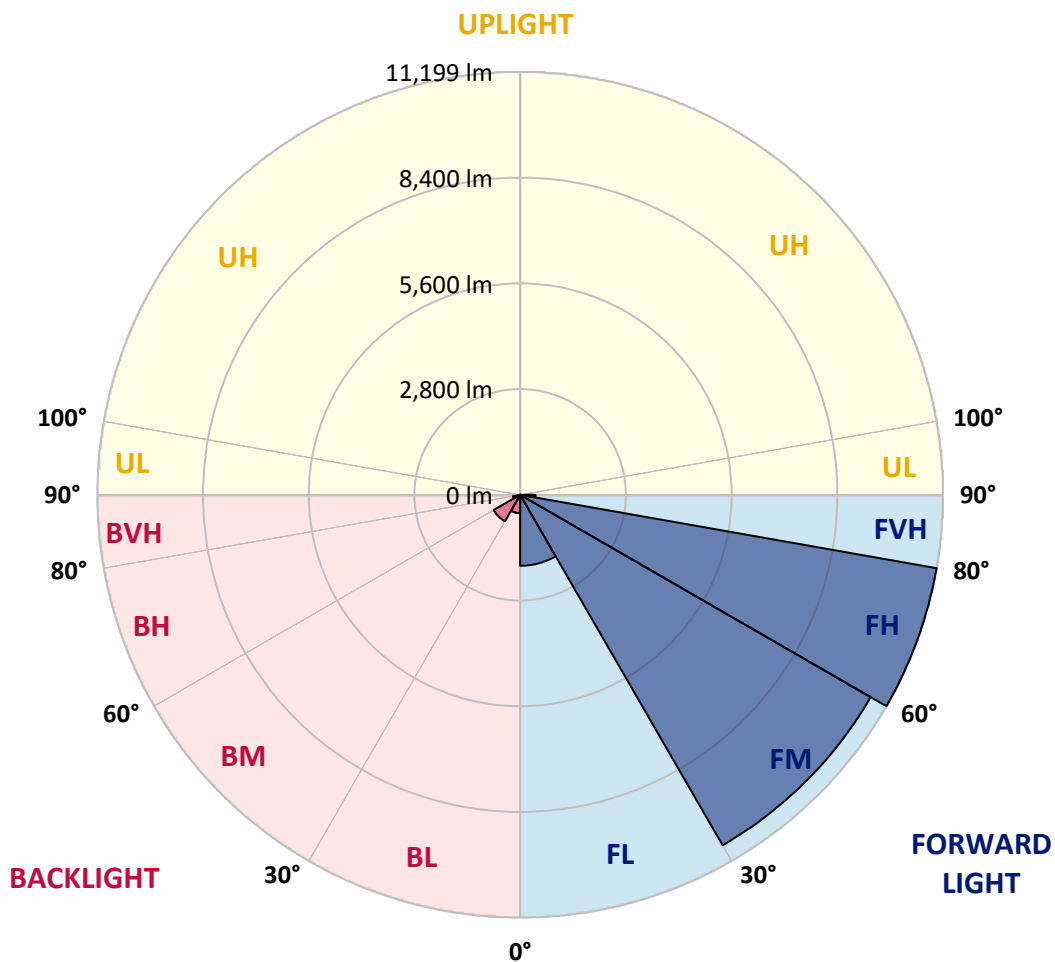
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1880.0	7.3			
FM (30°-60°)	10718.6	41.7			
FH (60°-80°)	11199.5	43.6			G4/12000
FVH (80°-90°)	405.9	1.6			G3/500
BL (0°-30°)	487.2	1.9	B1/500		
BM (30°-60°)	808.4	3.1	B1/1000		
BH (60°-80°)	195.3	0.8	B1/500		G1/500
BVH (80°-90°)	13.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





REPORT NUMBER: P193738

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9
2.5°	4217.3	4194.4	4180.6	4162.3	4139.3	4119.4	4111.8	4055.1	4001.6	3928.1	3844.0
5°	4295.4	4287.7	4263.3	4238.8	4211.2	4180.6	4163.8	4096.5	4019.9	3912.8	3765.9
7.5°	4303.0	4293.9	4263.3	4229.6	4191.3	4154.6	4125.5	4058.2	3987.8	3879.2	3700.1
10°	4290.8	4280.1	4257.1	4220.4	4173.0	4137.8	4108.7	4044.4	3984.8	3886.8	3687.9
12.5°	4277.0	4266.3	4255.6	4237.2	4195.9	4171.4	4147.0	4085.7	4032.2	3949.6	3732.3
15°	4290.8	4284.7	4296.9	4289.3	4266.3	4244.9	4220.4	4165.3	4116.4	4047.5	3813.4
17.5°	4348.9	4348.9	4387.2	4391.8	4370.4	4339.8	4304.6	4249.5	4208.2	4150.0	3909.8
20°	4485.1	4480.5	4529.5	4538.7	4486.7	4439.2	4387.2	4319.9	4287.7	4251.0	4004.6
22.5°	4719.3	4697.8	4726.9	4717.7	4615.2	4541.8	4477.5	4394.9	4378.0	4361.2	4110.2
25°	5023.8	5011.5	5031.4	4941.2	4760.6	4661.1	4584.6	4491.3	4491.3	4508.1	4229.6
27.5°	5466.0	5420.1	5352.8	5193.6	4922.8	4795.8	4713.1	4613.7	4639.7	4702.4	4387.2
30°	5919.0	5868.5	5713.9	5469.1	5120.2	4987.1	4890.7	4786.6	4847.8	4962.6	4598.4
32.5°	6365.8	6309.2	6090.4	5781.3	5403.3	5270.2	5176.8	5062.0	5164.6	5357.4	4907.5
35°	6798.9	6748.4	6495.9	6131.7	5779.7	5669.5	5583.9	5484.4	5616.0	5885.3	5343.6
37.5°	7285.5	7230.4	6922.8	6528.0	6237.3	6157.7	6095.0	5995.5	6225.0	6619.8	5951.1
40°	7883.8	7790.5	7375.8	6982.5	6766.7	6728.5	6685.6	6671.9	7028.4	7574.7	6760.6
42.5°	8569.4	8416.3	7850.1	7461.5	7348.2	7375.8	7365.1	7426.3	8033.8	8762.2	7746.1
45°	9254.9	9057.5	8378.1	7972.6	7987.9	8084.3	8143.9	8388.8	9293.2	10124.1	8806.5
47.5°	9836.4	9642.1	8884.6	8525.0	8708.6	8898.4	9060.6	9524.2	10587.7	11464.6	9631.3
50°	10333.7	10150.1	9421.7	9132.5	9545.6	9851.7	10114.9	10802.0	11980.3	12485.2	10209.8
52.5°	10740.8	10618.3	9978.7	9828.7	10502.1	10950.4	11336.0	12159.3	13213.6	13314.6	10659.7
55°	11137.1	11049.9	10577.0	10656.6	11625.2	12235.8	12724.0	13599.3	14275.6	14006.3	11091.2
57.5°	11593.1	11513.5	11259.5	11706.4	13101.9	13870.1	14402.6	14875.5	15210.6	14713.3	11498.2
60°	12058.3	12012.4	12018.5	12872.4	14797.4	15535.0	15828.8	15951.2	16128.8	15378.9	11521.2
62.5°	12502.1	12589.3	12886.2	14170.0	16421.0	16987.2	17135.6	17256.5	17048.4	15484.5	10644.4
65°	13253.4	13395.7	14104.2	15906.9	18206.8	18812.8	18965.8	18551.1	17193.8	14119.5	8658.1
67.5°	13620.7	13880.8	15144.8	17525.9	19939.1	20612.4	20555.7	18635.3	15429.4	10766.8	5556.3
69°	13544.2	13821.1	15385.1	18021.7	20514.4	21125.0	20765.4	17605.4	13144.8	7799.6	3410.9
70°	13241.2	13521.2	15261.1	18003.3	20587.9	21071.4	20376.7	16333.8	11114.1	5703.2	2133.2
72.5°	11057.5	11299.3	13548.8	16272.6	18965.8	18572.5	17046.9	11316.1	5415.5	1553.2	480.5
75°	6806.5	6941.2	9721.6	12258.8	14324.6	13314.6	11357.5	5629.8	1614.4	439.2	266.3
77.5°	3596.1	3657.3	5322.2	7225.8	9080.5	7513.5	5821.0	2195.9	743.7	275.4	192.8
80°	2125.5	2171.4	2866.1	3303.8	3929.7	3282.4	2327.5	1348.1	532.5	172.9	171.4
82.5°	1216.5	1245.6	2078.1	1836.3	1548.6	1322.1	1158.4	1277.8	319.8	116.3	177.5
85°	446.8	453.0	1169.1	1397.1	921.2	547.8	575.4	1058.9	85.7	73.5	139.3
87.5°	208.1	203.5	601.4	855.4	538.6	347.4	448.4	232.6	33.7	47.4	38.3
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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CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-8030-600-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9	3840.9
2.5°	3795.0	3738.4	3635.9	3530.3	3423.2	3340.5	3259.4	3195.1	3173.7	3133.9	3137.0
5°	3678.7	3574.6	3360.4	3143.1	2916.6	2730.0	2554.0	2411.7	2342.8	2272.4	2272.4
7.5°	3577.7	3426.2	3091.1	2737.6	2371.9	2064.3	1787.3	1579.2	1464.4	1372.6	1371.1
10°	3539.4	3334.4	2866.1	2359.6	1850.1	1430.8	1101.8	890.6	782.0	711.6	708.5
12.5°	3556.3	3302.3	2693.2	2010.7	1371.1	919.7	638.1	501.9	456.0	434.6	434.6
15°	3605.3	3293.1	2520.3	1669.5	968.6	575.4	423.9	387.2	384.1	384.1	384.1
17.5°	3664.9	3296.1	2342.8	1337.4	659.5	411.6	365.7	361.1	364.2	364.2	364.2
20°	3726.1	3297.7	2151.5	1029.9	465.2	358.1	344.3	342.8	345.8	345.8	347.4
22.5°	3801.1	3305.3	1960.2	769.7	384.1	338.2	327.5	327.5	329.0	329.0	327.5
25°	3886.8	3320.6	1761.3	570.8	350.4	324.4	315.2	313.7	315.2	313.7	312.2
27.5°	3993.9	3342.0	1539.4	446.8	335.1	310.6	303.0	303.0	301.5	299.9	298.4
30°	4128.6	3366.5	1290.0	379.5	319.8	298.4	290.7	289.2	287.7	284.6	284.6
32.5°	4333.6	3420.1	1043.6	344.3	303.0	281.6	275.4	275.4	272.4	269.3	267.8
35°	4648.9	3525.7	823.3	322.9	284.6	263.2	255.6	255.6	252.5	251.0	249.4
37.5°	5085.0	3686.4	639.6	303.0	266.3	243.3	235.7	234.1	231.1	228.0	226.5
40°	5665.0	3885.3	503.4	284.6	247.9	223.4	217.3	214.2	208.1	203.5	203.5
42.5°	6393.4	4111.8	408.6	264.7	226.5	205.1	200.5	195.9	185.2	180.6	179.0
45°	7155.4	4315.3	345.8	241.8	205.1	186.7	183.6	176.0	162.2	157.6	157.6
47.5°	7704.8	4362.7	304.5	220.4	185.2	166.8	165.3	151.5	139.3	136.2	134.7
50°	8047.5	4269.4	270.9	198.9	166.8	148.4	143.8	127.0	119.4	116.3	114.8
52.5°	8278.6	4102.6	243.3	180.6	150.0	131.6	120.9	108.6	102.5	99.5	99.5
55°	8463.8	3866.9	215.8	163.7	136.2	117.8	102.5	93.3	87.2	84.2	84.2
57.5°	8515.8	3547.1	188.2	150.0	122.4	104.1	87.2	81.1	73.5	71.9	71.9
60°	8137.8	2970.2	166.8	133.1	110.2	90.3	76.5	68.9	61.2	59.7	58.1
62.5°	7141.6	2298.4	146.9	117.8	96.4	78.0	65.8	56.6	50.5	50.5	50.5
65°	5447.7	1541.0	128.5	102.5	84.2	65.8	56.6	45.9	42.8	42.8	44.4
67.5°	3260.9	838.6	110.2	87.2	71.9	55.1	47.4	39.8	38.3	39.8	39.8
69°	1911.3	492.7	99.5	78.0	62.7	49.0	41.3	35.2	38.3	39.8	39.8
70°	1179.8	332.1	91.8	70.4	56.6	44.4	38.3	33.7	36.7	38.3	38.3
72.5°	329.0	171.4	73.5	55.1	45.9	36.7	30.6	30.6	35.2	36.7	36.7
75°	214.2	127.0	56.6	41.3	35.2	29.1	26.0	29.1	33.7	35.2	35.2
77.5°	177.5	104.1	45.9	33.7	29.1	27.5	24.5	26.0	30.6	32.1	32.1
80°	162.2	73.5	36.7	30.6	26.0	24.5	23.0	21.4	27.5	29.1	29.1
82.5°	154.6	58.1	32.1	27.5	24.5	21.4	19.9	21.4	24.5	26.0	27.5
85°	96.4	38.3	29.1	26.0	21.4	19.9	19.9	19.9	23.0	24.5	24.5
87.5°	35.2	30.6	26.0	21.4	18.4	18.4	18.4	18.4	19.9	23.0	23.0
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)