

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: P193763

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193763
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-05-LED-E1-SL4-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 21613 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 320
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

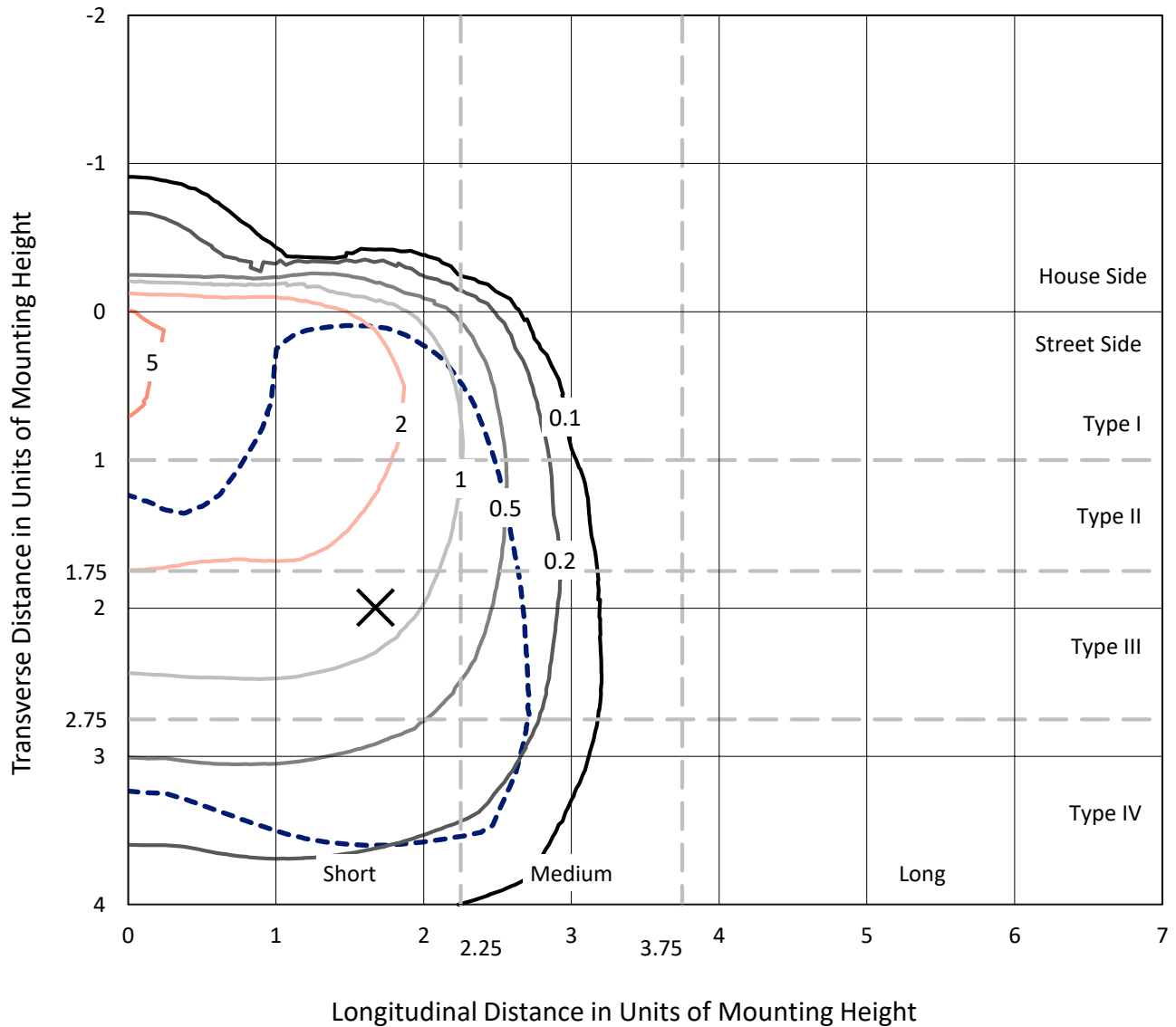


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

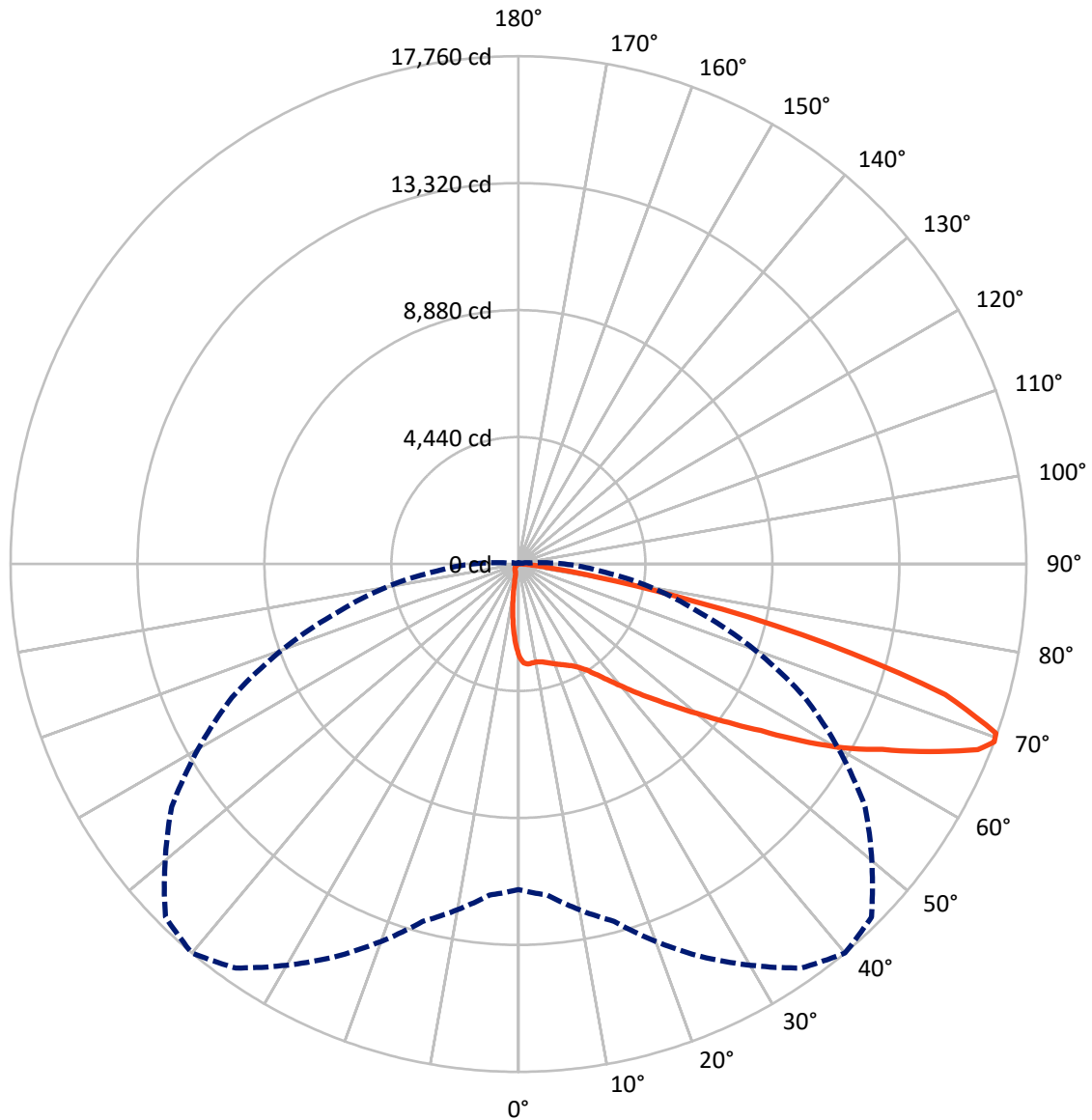


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1264.5	0.0	1264.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	20348.5	0.0	20348.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	21613.0	0.0	21613.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	1.2
10°-20°	643.9	3.0
20°-30°	1084.5	5.0
30°-40°	1775.3	8.2
40°-50°	3073.9	14.2
50°-60°	4841.7	22.4
60°-70°	6323.1	29.3
70°-80°	3256.7	15.1
80°-90°	352.3	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°	21613.0	100.0
0°-180°	21613.0	100.0



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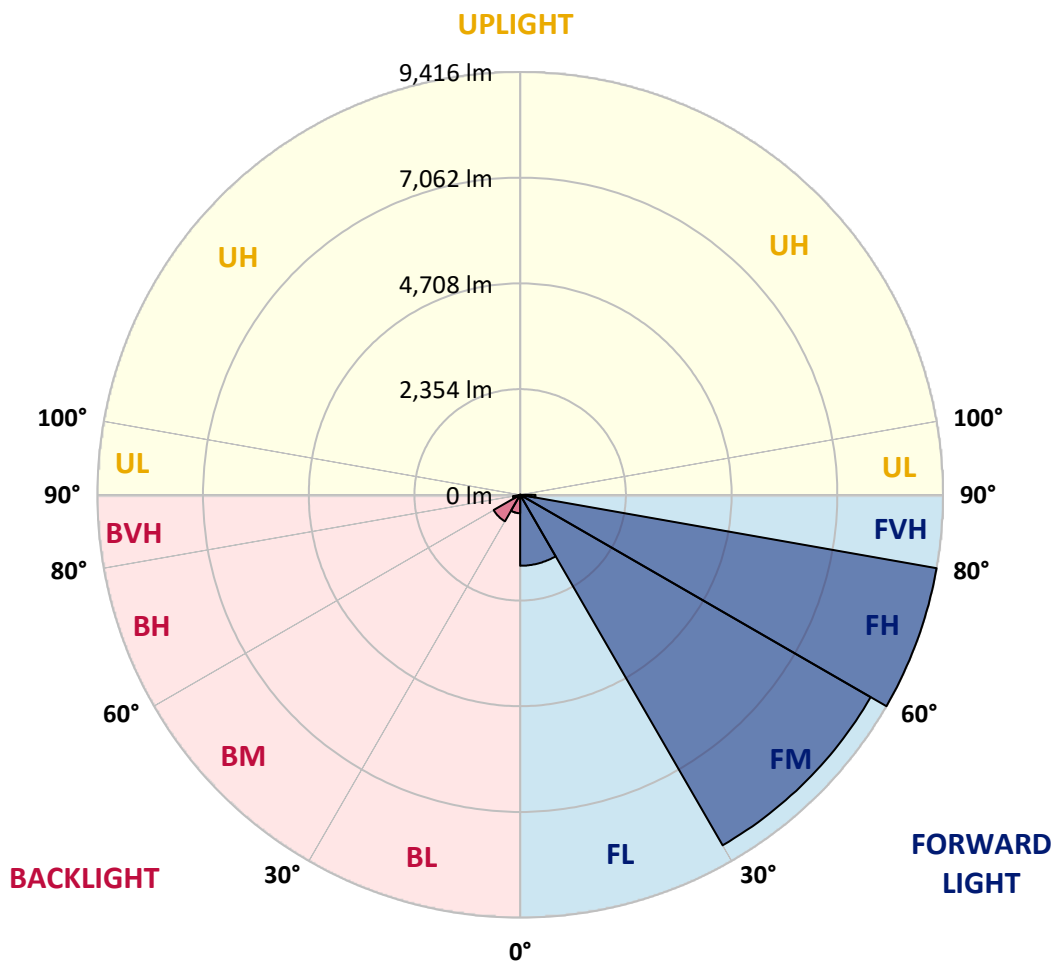
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1580.5	7.3			
FM	(30°-60°)	9011.3	41.7			
FH	(60°-80°)	9415.5	43.6			G4/12000
FVH	(80°-90°)	341.2	1.6			G3/500
BL	(0°-30°)	409.6	1.9	B1/500		
BM	(30°-60°)	679.6	3.1	B1/1000		
BH	(60°-80°)	164.2	0.8	B1/500		G1/500
BVH	(80°-90°)	11.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1
2.5°	3545.6	3526.3	3514.7	3499.3	3480.0	3463.2	3456.8	3409.2	3364.2	3302.4	3231.7
5°	3611.2	3604.7	3584.2	3563.6	3540.4	3514.7	3500.5	3443.9	3379.6	3289.6	3166.1
7.5°	3617.6	3609.9	3584.2	3555.9	3523.7	3492.8	3468.4	3411.8	3352.6	3261.3	3110.7
10°	3607.3	3598.3	3579.0	3548.1	3508.3	3478.7	3454.2	3400.2	3350.0	3267.7	3100.4
12.5°	3595.7	3586.7	3577.7	3562.3	3527.6	3507.0	3486.4	3434.9	3389.9	3320.4	3137.8
15°	3607.3	3602.2	3612.5	3606.0	3586.7	3568.7	3548.1	3501.8	3460.7	3402.8	3205.9
17.5°	3656.2	3656.2	3688.4	3692.2	3674.2	3648.5	3618.9	3572.6	3537.9	3489.0	3287.0
20°	3770.7	3766.8	3808.0	3815.7	3772.0	3732.1	3688.4	3631.8	3604.7	3573.9	3366.7
22.5°	3967.5	3949.5	3974.0	3966.3	3880.1	3818.3	3764.3	3694.8	3680.7	3666.5	3455.5
25°	4223.6	4213.3	4230.0	4154.1	4002.3	3918.7	3854.3	3775.9	3775.9	3790.0	3555.9
27.5°	4595.3	4556.8	4500.1	4366.4	4138.6	4031.9	3962.4	3878.8	3900.6	3953.4	3688.4
30°	4976.1	4933.7	4803.8	4597.9	4304.6	4192.7	4111.6	4024.1	4075.6	4172.1	3865.9
32.5°	5351.8	5304.2	5120.2	4860.4	4542.6	4430.7	4352.2	4255.7	4341.9	4504.0	4125.8
35°	5715.9	5673.4	5461.2	5155.0	4859.1	4766.5	4694.4	4610.8	4721.4	4947.8	4492.4
37.5°	6125.0	6078.7	5820.1	5488.2	5243.7	5176.8	5124.1	5040.5	5233.4	5565.4	5003.2
40°	6628.0	6549.5	6200.9	5870.3	5688.9	5656.7	5620.7	5609.1	5908.9	6368.1	5683.7
42.5°	7204.4	7075.7	6599.7	6272.9	6177.7	6200.9	6191.9	6243.3	6754.1	7366.4	6512.2
45°	7780.7	7614.7	7043.5	6702.6	6715.5	6796.5	6846.7	7052.5	7812.9	8511.4	7403.8
47.5°	8269.6	8106.2	7469.4	7167.0	7321.4	7480.9	7617.3	8007.1	8901.2	9638.4	8097.2
50°	8687.7	8533.3	7920.9	7677.8	8025.1	8282.4	8503.7	9081.3	10071.9	10496.5	8583.5
52.5°	9029.9	8927.0	8389.2	8263.1	8829.2	9206.1	9530.3	10222.5	11108.9	11193.8	8961.7
55°	9363.1	9289.8	8892.2	8959.1	9773.5	10286.8	10697.2	11433.0	12001.7	11775.3	9324.5
57.5°	9746.5	9679.6	9466.0	9841.7	11014.9	11660.8	12108.5	12506.0	12787.7	12369.6	9666.7
60°	10137.6	10099.0	10104.1	10822.0	12440.4	13060.5	13307.5	13410.4	13559.6	12929.2	9686.0
62.5°	10510.6	10584.0	10833.5	11912.9	13805.3	14281.3	14406.1	14507.8	14332.8	13018.0	8948.8
65°	11142.3	11261.9	11857.6	13373.1	15306.7	15816.1	15944.8	15596.1	14455.0	11870.5	7279.0
67.5°	11451.1	11669.8	12732.4	14734.2	16763.0	17329.0	17281.4	15666.9	12971.7	9051.8	4671.3
69°	11386.7	11619.6	12934.4	15151.0	17246.7	17760.0	17457.7	14801.1	11051.0	6557.2	2867.6
70°	11132.0	11367.4	12830.2	15135.6	17308.5	17715.0	17130.9	13732.0	9343.8	4794.8	1793.4
72.5°	9296.2	9499.5	11390.6	13680.5	15944.8	15614.1	14331.5	9513.6	4552.9	1305.8	404.0
75°	5722.3	5835.5	8173.1	10306.1	12042.8	11193.8	9548.3	4733.0	1357.2	369.2	223.8
77.5°	3023.3	3074.7	4474.4	6074.8	7634.0	6316.7	4893.8	1846.1	625.2	231.6	162.1
80°	1786.9	1825.5	2409.6	2777.5	3303.7	2759.5	1956.8	1133.4	447.7	145.4	144.1
82.5°	1022.8	1047.2	1747.1	1543.8	1301.9	1111.5	973.9	1074.2	268.9	97.8	149.2
85°	375.7	380.8	982.9	1174.6	774.5	460.6	483.7	890.3	72.0	61.8	117.1
87.5°	175.0	171.1	505.6	719.1	452.8	292.0	376.9	195.5	28.3	39.9	32.2
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°	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1	3229.1
2.5°	3190.5	3142.9	3056.7	2967.9	2877.9	2808.4	2740.2	2686.2	2668.2	2634.7	2637.3
5°	3092.7	3005.2	2825.1	2642.5	2452.1	2295.1	2147.2	2027.5	1969.6	1910.4	1910.4
7.5°	3007.8	2880.5	2598.7	2301.5	1994.1	1735.5	1502.6	1327.7	1231.2	1154.0	1152.7
10°	2975.7	2803.3	2409.6	1983.8	1555.4	1202.9	926.3	748.7	657.4	598.2	595.6
12.5°	2989.8	2776.2	2264.2	1690.4	1152.7	773.2	536.5	422.0	383.4	365.4	365.4
15°	3031.0	2768.5	2118.9	1403.6	814.3	483.7	356.4	325.5	322.9	322.9	322.9
17.5°	3081.1	2771.1	1969.6	1124.4	554.5	346.1	307.5	303.6	306.2	306.2	306.2
20°	3132.6	2772.4	1808.8	865.8	391.1	301.0	289.5	288.2	290.7	290.7	292.0
22.5°	3195.6	2778.8	1648.0	647.1	322.9	284.3	275.3	275.3	276.6	276.6	275.3
25°	3267.7	2791.7	1480.8	479.9	294.6	272.7	265.0	263.7	265.0	263.7	262.4
27.5°	3357.7	2809.7	1294.2	375.7	281.7	261.2	254.7	254.7	253.4	252.2	250.9
30°	3471.0	2830.3	1084.5	319.0	268.9	250.9	244.4	243.1	241.9	239.3	239.3
32.5°	3643.3	2875.3	877.4	289.5	254.7	236.7	231.6	231.6	229.0	226.4	225.1
35°	3908.4	2964.1	692.1	271.4	239.3	221.3	214.8	214.8	212.3	211.0	209.7
37.5°	4275.0	3099.2	537.8	254.7	223.8	204.6	198.1	196.8	194.3	191.7	190.4
40°	4762.6	3266.4	423.3	239.3	208.4	187.8	182.7	180.1	175.0	171.1	171.1
42.5°	5375.0	3456.8	343.5	222.6	190.4	172.4	168.5	164.7	155.7	151.8	150.5
45°	6015.6	3627.9	290.7	203.3	172.4	157.0	154.4	147.9	136.4	132.5	132.5
47.5°	6477.5	3667.8	256.0	185.3	155.7	140.2	138.9	127.4	117.1	114.5	113.2
50°	6765.7	3589.3	227.7	167.2	140.2	124.8	120.9	106.8	100.3	97.8	96.5
52.5°	6959.9	3449.1	204.6	151.8	126.1	110.6	101.6	91.3	86.2	83.6	83.6
55°	7115.6	3251.0	181.4	137.7	114.5	99.1	86.2	78.5	73.3	70.8	70.8
57.5°	7159.3	2982.1	158.2	126.1	102.9	87.5	73.3	68.2	61.8	60.5	60.5
60°	6841.6	2497.1	140.2	111.9	92.6	75.9	64.3	57.9	51.5	50.2	48.9
62.5°	6004.1	1932.3	123.5	99.1	81.0	65.6	55.3	47.6	42.5	42.5	42.5
65°	4579.9	1295.5	108.1	86.2	70.8	55.3	47.6	38.6	36.0	36.0	37.3
67.5°	2741.5	705.0	92.6	73.3	60.5	46.3	39.9	33.4	32.2	33.4	33.4
69°	1606.8	414.3	83.6	65.6	52.7	41.2	34.7	29.6	32.2	33.4	33.4
70°	991.9	279.2	77.2	59.2	47.6	37.3	32.2	28.3	30.9	32.2	32.2
72.5°	276.6	144.1	61.8	46.3	38.6	30.9	25.7	25.7	29.6	30.9	30.9
75°	180.1	106.8	47.6	34.7	29.6	24.4	21.9	24.4	28.3	29.6	29.6
77.5°	149.2	87.5	38.6	28.3	24.4	23.2	20.6	21.9	25.7	27.0	27.0
80°	136.4	61.8	30.9	25.7	21.9	20.6	19.3	18.0	23.2	24.4	24.4
82.5°	129.9	48.9	27.0	23.2	20.6	18.0	16.7	18.0	20.6	21.9	23.2
85°	81.0	32.2	24.4	21.9	18.0	16.7	16.7	16.7	19.3	20.6	20.6
87.5°	29.6	25.7	21.9	18.0	15.4	15.4	15.4	15.4	16.7	19.3	19.3
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)