

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: P191996

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191996
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-08-LED-E1-SL4-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 25510 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 257
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

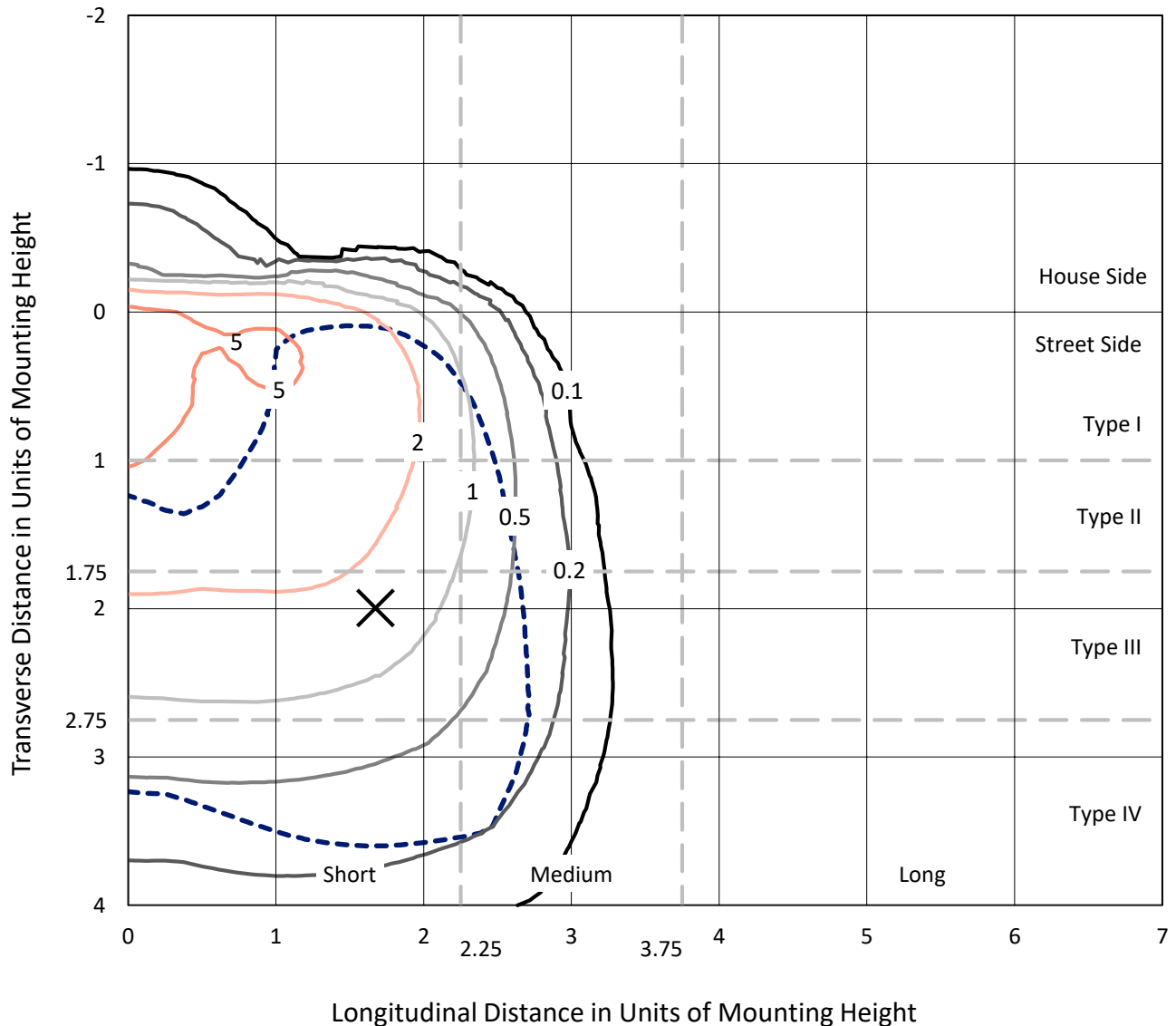


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

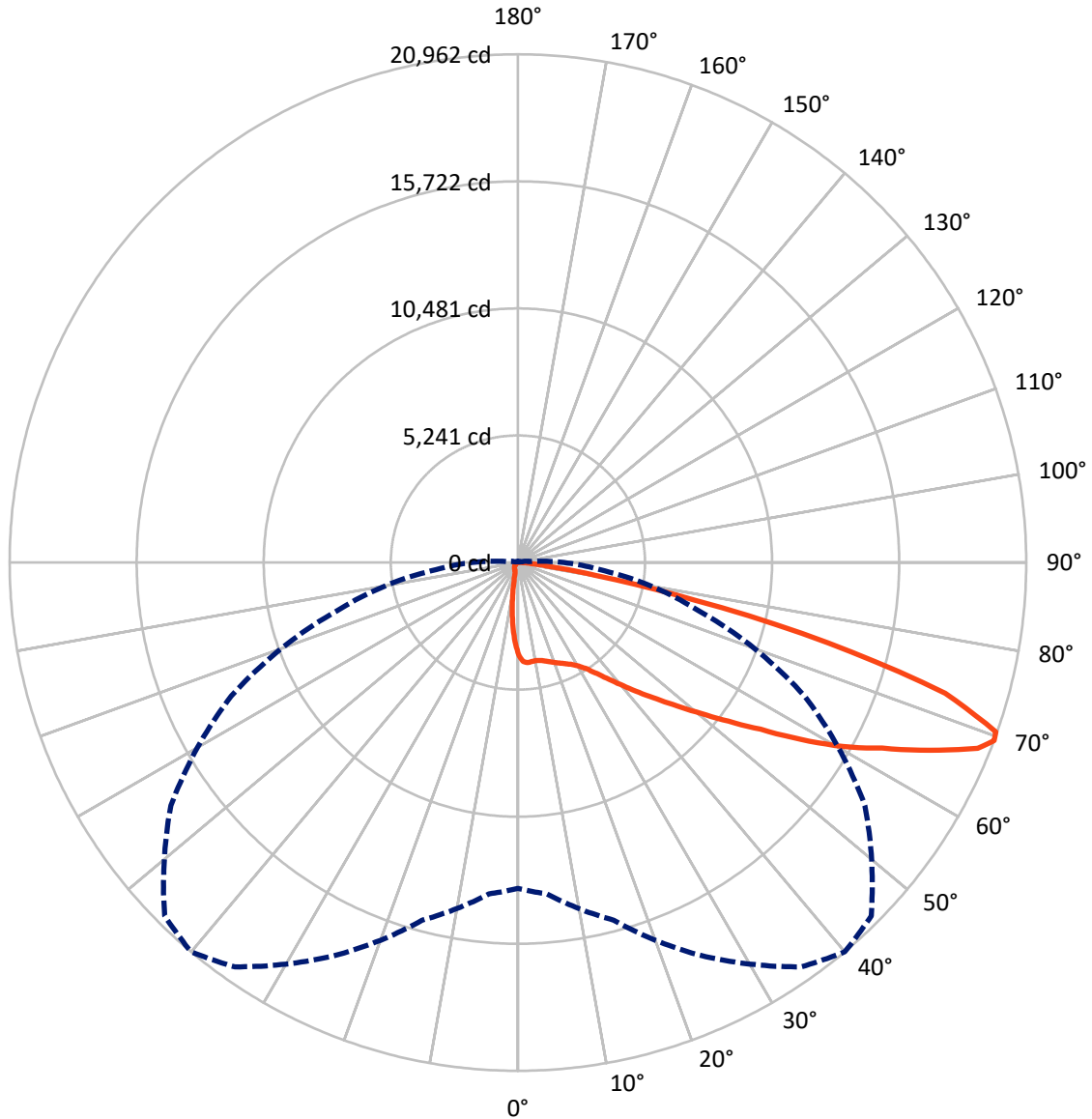


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Semi-Cutoff

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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	1492.5	0.0	1492.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	24017.5	0.0	24017.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	25510.0	0.0	25510.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	1.2
10°-20°	759.9	3.0
20°-30°	1280.0	5.0
30°-40°	2095.4	8.2
40°-50°	3628.1	14.2
50°-60°	5714.7	22.4
60°-70°	7463.2	29.3
70°-80°	3843.9	15.1
80°-90°	415.8	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°	25510.0	100.0
0°-180°	25510.0	100.0



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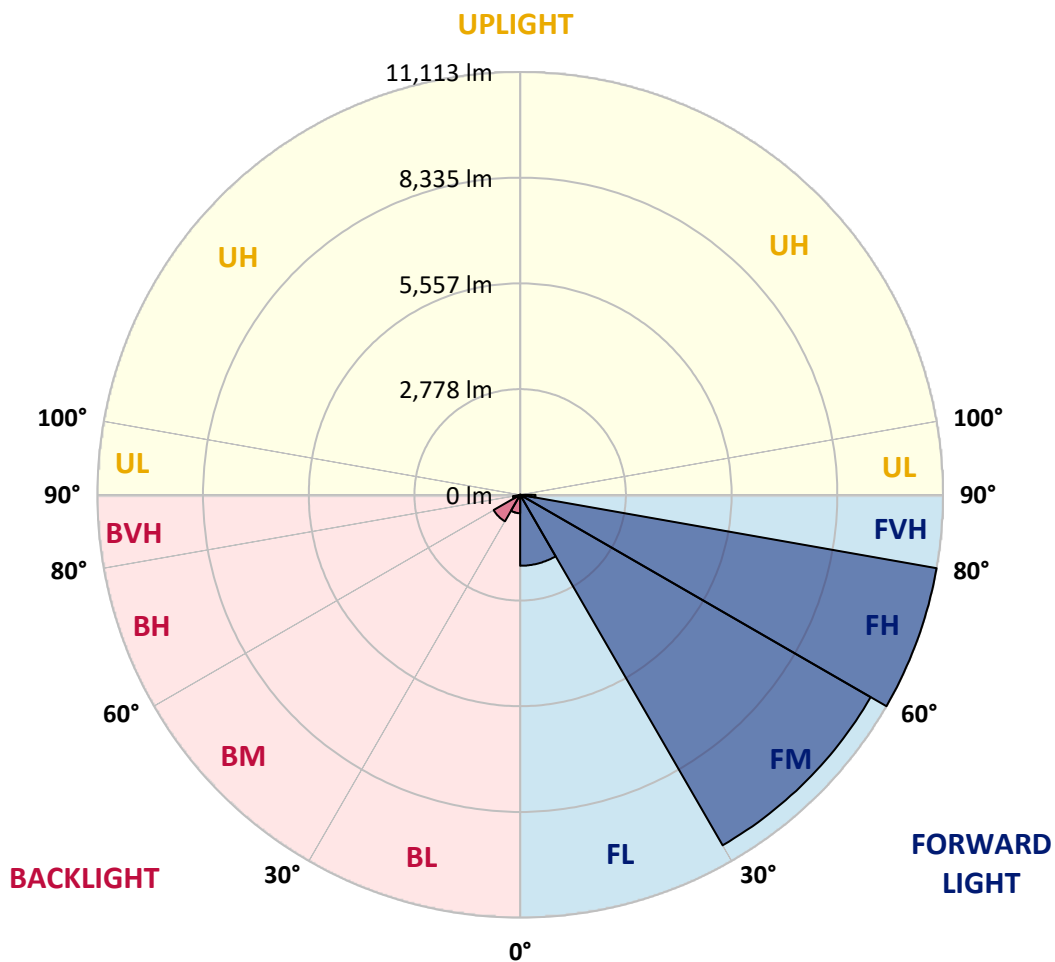
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1865.5	7.3			
FM	(30°-60°)	10636.1	41.7			
FH	(60°-80°)	11113.2	43.6			G4/12000
FVH	(80°-90°)	402.7	1.6			G3/500
BL	(0°-30°)	483.5	1.9	B1/500		
BM	(30°-60°)	802.2	3.1	B1/1000		
BH	(60°-80°)	193.8	0.8	B1/500		G1/500
BVH	(80°-90°)	13.1	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°	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3
2.5°	4184.9	4162.1	4148.4	4130.2	4107.4	4087.7	4080.1	4023.9	3970.8	3897.9	3814.4
5°	4262.3	4254.7	4230.4	4206.1	4178.8	4148.4	4131.7	4064.9	3989.0	3882.7	3736.9
7.5°	4269.9	4260.8	4230.4	4197.0	4159.1	4122.6	4093.8	4026.9	3957.1	3849.3	3671.6
10°	4257.8	4247.1	4224.3	4187.9	4140.8	4105.9	4077.1	4013.3	3954.1	3856.9	3659.5
12.5°	4244.1	4233.5	4222.8	4204.6	4163.6	4139.3	4115.0	4054.3	4001.1	3919.1	3703.5
15°	4257.8	4251.7	4263.8	4256.2	4233.5	4212.2	4187.9	4133.2	4084.6	4016.3	3784.0
17.5°	4315.5	4315.5	4353.4	4358.0	4336.7	4306.3	4271.4	4216.8	4175.8	4118.1	3879.7
20°	4450.6	4446.0	4494.6	4503.7	4452.1	4405.0	4353.4	4286.6	4254.7	4218.3	3973.8
22.5°	4682.9	4661.7	4690.5	4681.4	4579.7	4506.8	4443.0	4361.0	4344.3	4327.6	4078.6
25°	4985.1	4972.9	4992.7	4903.1	4723.9	4625.2	4549.3	4456.7	4456.7	4473.4	4197.0
27.5°	5423.9	5378.4	5311.6	5153.6	4884.9	4758.8	4676.8	4578.1	4604.0	4666.2	4353.4
30°	5873.4	5823.3	5669.9	5427.0	5080.8	4948.6	4853.0	4749.7	4810.5	4924.4	4563.0
32.5°	6316.8	6260.6	6043.5	5736.7	5361.7	5229.6	5136.9	5023.1	5124.8	5316.1	4869.7
35°	6746.5	6696.4	6445.8	6084.5	5735.2	5625.9	5540.8	5442.1	5572.7	5840.0	5302.4
37.5°	7229.4	7174.7	6869.5	6477.7	6189.2	6110.3	6048.0	5949.3	6177.1	6568.8	5905.3
40°	7823.1	7730.5	7319.0	6928.7	6714.6	6676.7	6634.1	6620.5	6974.3	7516.4	6708.5
42.5°	8503.4	8351.5	7789.7	7404.0	7291.6	7319.0	7308.3	7369.1	7971.9	8694.7	7686.4
45°	9183.6	8987.7	8313.5	7911.2	7926.3	8022.0	8081.2	8324.2	9221.6	10046.1	8738.7
47.5°	9760.6	9567.8	8816.2	8459.3	8641.5	8829.8	8990.8	9450.9	10506.2	11376.3	9557.2
50°	10254.1	10071.9	9349.1	9062.1	9472.1	9775.8	10037.0	10718.8	11888.0	12389.1	10131.1
52.5°	10658.0	10536.6	9901.9	9753.0	10421.2	10866.1	11248.7	12065.7	13111.9	13212.1	10577.6
55°	11051.3	10964.8	10495.6	10574.5	11535.7	12141.6	12626.0	13494.5	14165.7	13898.4	11005.8
57.5°	11503.8	11424.9	11172.8	11616.2	13001.0	13763.3	14291.7	14760.9	15093.5	14600.0	11409.7
60°	11965.4	11919.9	11926.0	12773.3	14683.5	15415.4	15706.9	15828.4	16004.5	15260.5	11432.5
62.5°	12405.8	12492.3	12786.9	14060.9	16294.6	16856.4	17003.7	17123.6	16917.1	15365.3	10562.4
65°	13151.3	13292.6	13995.6	15784.4	18066.6	18667.9	18819.7	18408.2	17061.4	14010.8	8591.4
67.5°	13515.8	13773.9	15028.2	17390.9	19785.5	20453.6	20397.4	18491.8	15310.6	10683.9	5513.5
69°	13439.9	13714.7	15266.6	17882.9	20356.4	20962.3	20605.5	17469.8	13043.5	7739.6	3384.6
70°	13139.2	13417.1	15143.6	17864.6	20429.3	20909.1	20219.8	16208.0	11028.5	5659.3	2116.7
72.5°	10972.4	11212.3	13444.4	16147.3	18819.7	18429.5	16915.6	11229.0	5373.8	1541.2	476.8
75°	6754.1	6887.7	9646.8	12164.4	14214.3	13212.1	11270.0	5586.4	1602.0	435.8	264.2
77.5°	3568.4	3629.1	5281.2	7170.2	9010.5	7455.6	5776.2	2179.0	738.0	273.3	191.3
80°	2109.1	2154.7	2844.1	3278.3	3899.4	3257.1	2309.6	1337.8	528.4	171.6	170.1
82.5°	1207.2	1236.0	2062.1	1822.1	1536.7	1311.9	1149.5	1267.9	317.4	115.4	176.1
85°	443.4	449.5	1160.1	1386.4	914.1	543.6	570.9	1050.8	85.0	72.9	138.2
87.5°	206.5	202.0	596.8	848.8	534.5	344.7	444.9	230.8	33.4	47.1	38.0
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°	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3
2.5°	3765.8	3709.6	3607.9	3503.1	3396.8	3314.8	3234.3	3170.5	3149.3	3109.8	3112.8
5°	3650.4	3547.1	3334.5	3118.9	2894.2	2708.9	2534.3	2393.1	2324.8	2254.9	2254.9
7.5°	3550.2	3399.8	3067.3	2716.5	2353.6	2048.4	1773.6	1567.0	1453.2	1362.1	1360.5
10°	3512.2	3308.7	2844.1	2341.5	1835.8	1419.8	1093.3	883.7	775.9	706.1	703.0
12.5°	3528.9	3276.8	2672.5	1995.3	1360.5	912.6	633.2	498.1	452.5	431.2	431.2
15°	3577.5	3267.7	2500.9	1656.6	961.2	570.9	420.6	384.2	381.1	381.1	381.1
17.5°	3636.7	3270.8	2324.8	1327.1	654.5	408.5	362.9	358.4	361.4	361.4	361.4
20°	3697.4	3272.3	2134.9	1021.9	461.6	355.3	341.7	340.1	343.2	343.2	344.7
22.5°	3771.8	3279.9	1945.1	763.8	381.1	335.6	324.9	324.9	326.5	326.5	324.9
25°	3856.9	3295.1	1747.7	566.4	347.7	321.9	312.8	311.3	312.8	311.3	309.8
27.5°	3963.2	3316.3	1527.6	443.4	332.5	308.2	300.7	300.7	299.1	297.6	296.1
30°	4096.8	3340.6	1280.1	376.6	317.4	296.1	288.5	287.0	285.5	282.4	282.4
32.5°	4300.3	3393.7	1035.6	341.7	300.7	279.4	273.3	273.3	270.3	267.2	265.7
35°	4613.1	3498.5	816.9	320.4	282.4	261.2	253.6	253.6	250.5	249.0	247.5
37.5°	5045.8	3658.0	634.7	300.7	264.2	241.4	233.8	232.3	229.3	226.2	224.7
40°	5621.3	3855.4	499.6	282.4	246.0	221.7	215.6	212.6	206.5	202.0	202.0
42.5°	6344.1	4080.1	405.4	262.7	224.7	203.5	198.9	194.4	183.7	179.2	177.7
45°	7100.3	4282.0	343.2	239.9	203.5	185.3	182.2	174.6	161.0	156.4	156.4
47.5°	7645.4	4329.1	302.2	218.7	183.7	165.5	164.0	150.3	138.2	135.1	133.6
50°	7985.6	4236.5	268.8	197.4	165.5	147.3	142.7	126.0	118.4	115.4	113.9
52.5°	8214.8	4071.0	241.4	179.2	148.8	130.6	120.0	107.8	101.7	98.7	98.7
55°	8398.6	3837.1	214.1	162.5	135.1	116.9	101.7	92.6	86.6	83.5	83.5
57.5°	8450.2	3519.8	186.8	148.8	121.5	103.3	86.6	80.5	72.9	71.4	71.4
60°	8075.2	2947.3	165.5	132.1	109.3	89.6	75.9	68.3	60.7	59.2	57.7
62.5°	7086.6	2280.7	145.8	116.9	95.7	77.4	65.3	56.2	50.1	50.1	50.1
65°	5405.7	1529.1	127.6	101.7	83.5	65.3	56.2	45.6	42.5	42.5	44.0
67.5°	3235.8	832.1	109.3	86.6	71.4	54.7	47.1	39.5	38.0	39.5	39.5
69°	1896.6	488.9	98.7	77.4	62.3	48.6	41.0	34.9	38.0	39.5	39.5
70°	1170.7	329.5	91.1	69.8	56.2	44.0	38.0	33.4	36.4	38.0	38.0
72.5°	326.5	170.1	72.9	54.7	45.6	36.4	30.4	30.4	34.9	36.4	36.4
75°	212.6	126.0	56.2	41.0	34.9	28.9	25.8	28.9	33.4	34.9	34.9
77.5°	176.1	103.3	45.6	33.4	28.9	27.3	24.3	25.8	30.4	31.9	31.9
80°	161.0	72.9	36.4	30.4	25.8	24.3	22.8	21.3	27.3	28.9	28.9
82.5°	153.4	57.7	31.9	27.3	24.3	21.3	19.7	21.3	24.3	25.8	27.3
85°	95.7	38.0	28.9	25.8	21.3	19.7	19.7	19.7	22.8	24.3	24.3
87.5°	34.9	30.4	25.8	21.3	18.2	18.2	18.2	18.2	19.7	22.8	22.8
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)