

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: P191942

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191942
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-SL3-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 22503 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 258
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

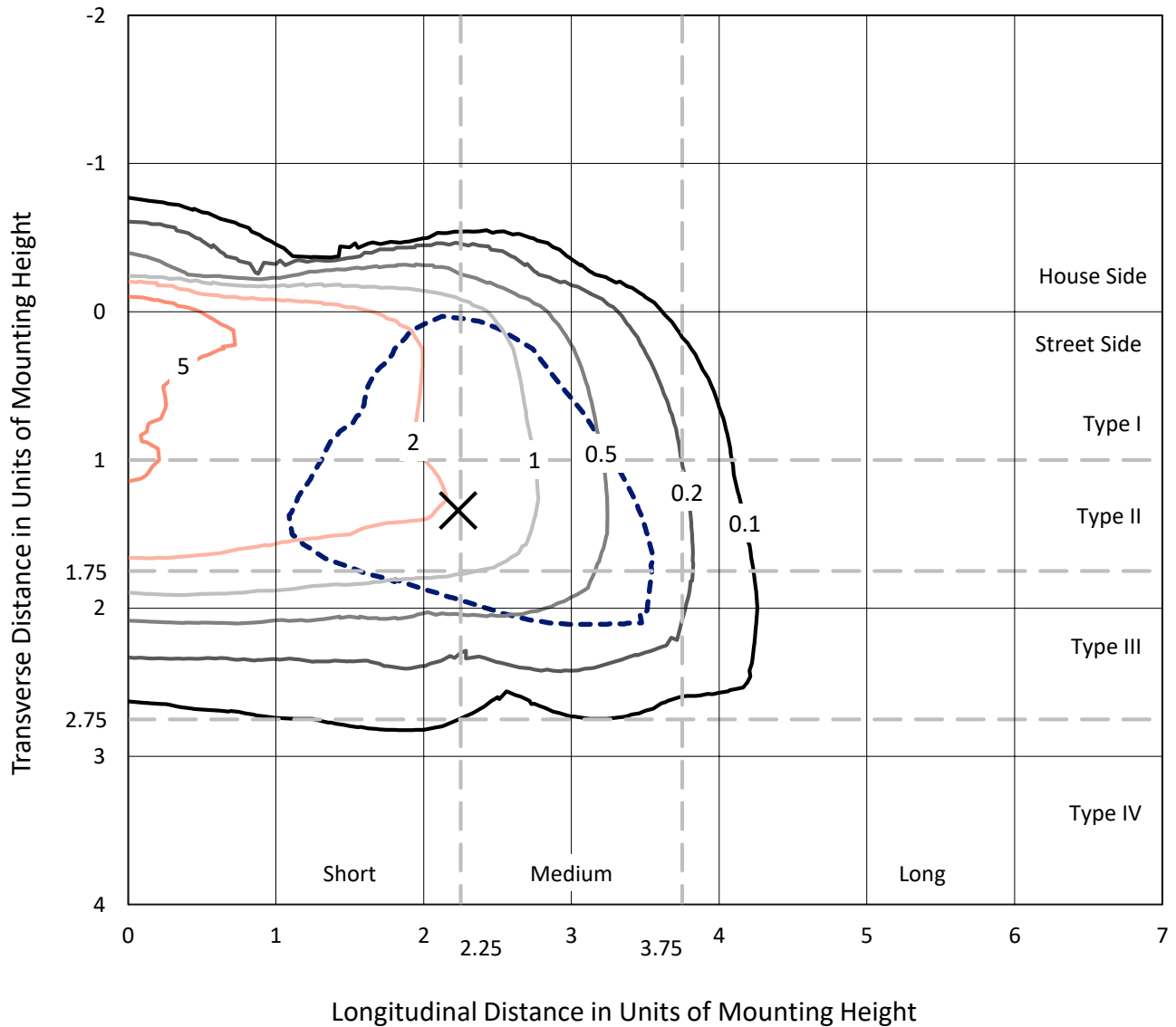


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

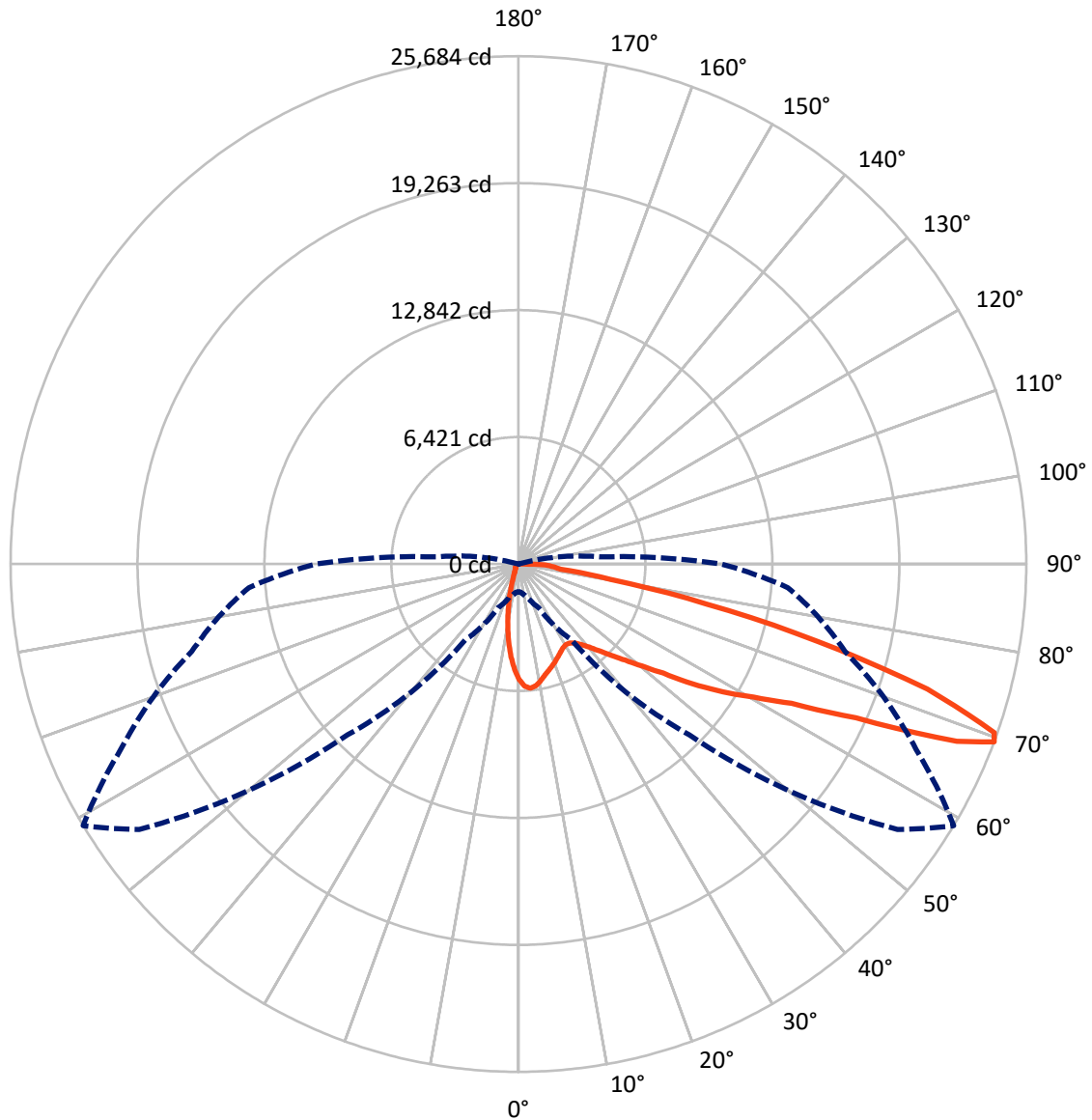


Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - Non-Cutoff

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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
House Side	Lumens	1832.6	0.0	1832.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	20670.4	0.0	20670.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	22503.0	0.0	22503.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.4	2.1
10°-20°	982.4	4.4
20°-30°	1321.9	5.9
30°-40°	1919.3	8.5
40°-50°	3195.8	14.2
50°-60°	4985.4	22.2
60°-70°	6169.1	27.4
70°-80°	3126.4	13.9
80°-90°	327.1	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°	22503.0	100.0
0°-180°	22503.0	100.0



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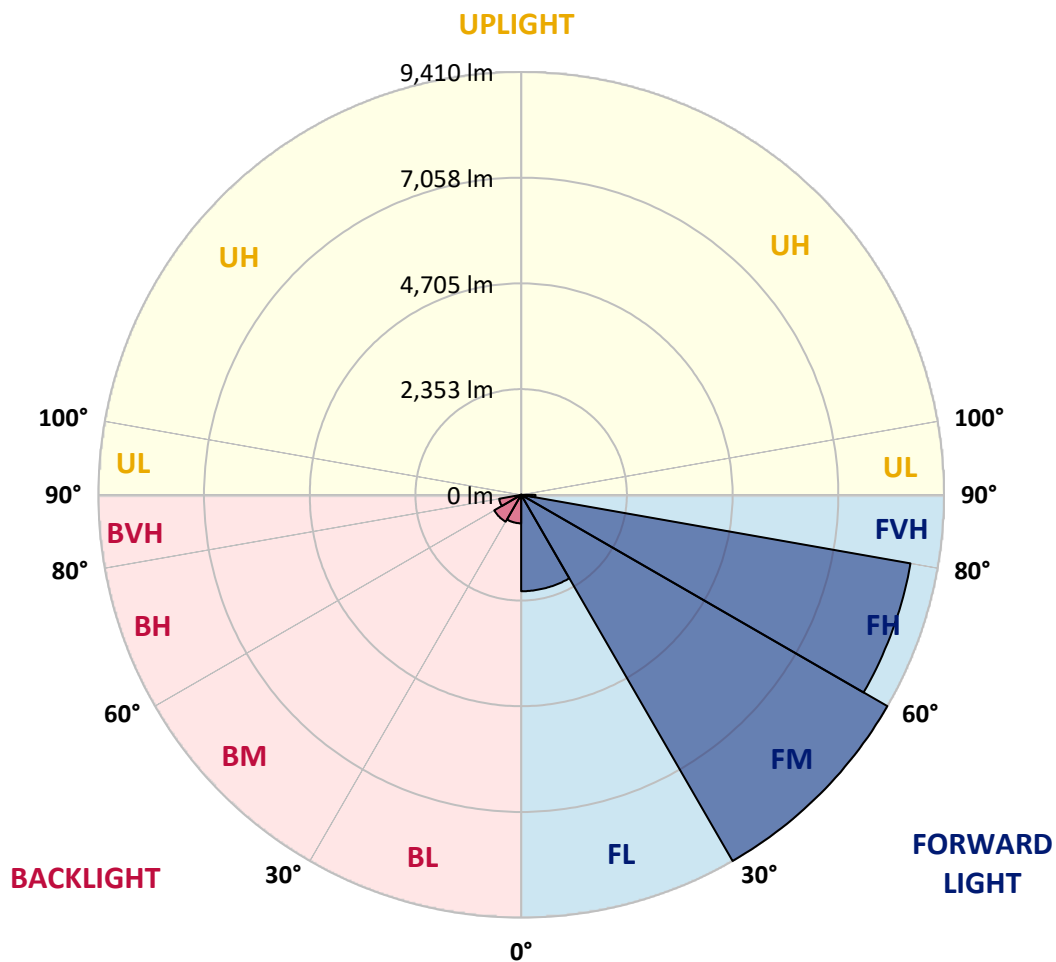
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2145.4	9.5			
FM	(30°-60°)	9410.1	41.8			
FH	(60°-80°)	8797.9	39.1			G4/12000
FVH	(80°-90°)	317.1	1.4			G3/500
BL	(0°-30°)	634.3	2.8	B2/1000		
BM	(30°-60°)	690.5	3.1	B1/1000		
BH	(60°-80°)	497.7	2.2	B1/500		G1/500
BVH	(80°-90°)	10.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2
2.5°	6419.7	6417.1	6389.1	6376.4	6353.5	6305.1	6230.1	6190.6	6127.0	6016.3	5867.4
5°	6361.1	6391.7	6408.2	6409.5	6426.0	6408.2	6340.8	6307.7	6219.9	6041.7	5774.5
7.5°	5964.1	5975.6	6022.6	6063.4	6142.3	6217.3	6241.5	6227.5	6175.3	5984.5	5629.4
10°	5539.1	5550.6	5606.5	5660.0	5766.9	5882.7	6004.8	6030.3	6051.9	5903.0	5489.5
12.5°	5172.6	5184.1	5241.3	5311.3	5436.0	5578.5	5768.1	5810.1	5905.6	5825.4	5377.5
15°	4857.1	4862.1	4918.1	5004.7	5153.5	5336.8	5551.8	5619.3	5765.6	5770.7	5279.5
17.5°	4588.6	4601.3	4635.6	4718.4	4881.2	5107.7	5358.4	5455.1	5626.9	5724.9	5184.1
20°	4424.4	4437.1	4435.9	4481.7	4628.0	4869.8	5165.0	5280.8	5489.5	5677.8	5098.8
22.5°	4392.6	4392.6	4359.5	4353.1	4439.7	4642.0	4963.9	5105.2	5366.0	5657.4	5039.0
25°	4505.8	4500.8	4418.0	4350.6	4354.4	4475.3	4769.3	4937.2	5261.7	5671.4	5007.2
27.5°	4745.1	4738.7	4634.4	4505.8	4402.8	4401.5	4621.6	4802.3	5179.0	5737.6	5019.9
30°	5075.9	5073.4	4960.1	4798.5	4611.5	4439.7	4570.7	4734.9	5125.5	5857.2	5049.2
32.5°	5437.3	5433.5	5348.2	5177.7	4941.0	4611.5	4624.2	4761.6	5140.8	6016.3	5120.5
35°	5820.3	5814.0	5777.1	5628.2	5367.3	4928.3	4799.8	4906.7	5237.5	6254.2	5260.4
37.5°	6235.1	6241.5	6268.2	6125.7	5852.1	5372.4	5093.7	5166.3	5432.2	6577.4	5488.2
40°	6847.2	6845.9	6854.8	6667.8	6404.4	5915.8	5504.7	5527.6	5758.0	7006.3	5834.3
42.5°	7958.1	7880.5	7645.1	7263.3	6998.6	6536.7	6022.6	5998.5	6156.3	7536.9	6319.1
45°	9450.7	9285.3	8674.5	7942.8	7604.3	7236.6	6660.2	6582.5	6683.1	8174.4	6917.2
47.5°	10734.6	10562.8	9698.8	8650.3	8246.9	7900.8	7407.1	7267.1	7300.2	8888.3	7675.6
50°	11171.1	11087.1	10332.5	9266.2	8869.2	8736.8	8273.7	8103.1	8056.1	9714.1	8554.9
52.5°	11019.7	11013.3	10510.7	9665.7	9439.2	9602.1	9364.2	9166.9	8993.9	10584.5	9449.4
55°	10776.6	10808.4	10583.2	10015.7	10008.0	10392.3	10855.5	10691.4	10190.0	11529.9	10220.5
57.5°	10106.0	10242.2	10542.5	10677.4	10990.4	11383.6	12097.5	12194.2	11601.2	12254.0	10860.6
60°	8199.9	8498.9	9481.2	10772.8	12256.5	13236.3	13596.4	13679.1	12759.1	12855.9	11724.6
62.5°	5820.3	6125.7	7371.5	9556.3	12275.6	15670.6	15829.6	15505.2	14034.2	13747.9	13214.7
65°	3089.6	3325.0	4343.0	6898.1	10643.0	16235.6	19734.9	18767.8	16283.9	15502.6	15140.0
67.5°	1580.4	1651.7	2056.3	3375.9	7316.8	14421.0	23235.5	23916.2	20161.2	17243.4	15047.1
69°	1398.5	1440.4	1708.9	2440.6	4685.3	12214.5	23406.0	25683.7	22190.8	17098.3	13674.1
70°	1353.9	1390.8	1635.1	2209.0	3662.2	10243.5	22753.2	25528.5	22709.9	16546.0	12648.4
72.5°	1149.0	1180.9	1455.7	1952.0	2976.3	5084.8	18482.8	21632.1	20378.7	13783.5	9155.5
75°	768.6	872.9	1397.2	1829.8	2768.9	2888.5	12185.3	15632.4	14521.5	9296.7	4769.3
77.5°	184.5	198.5	394.5	1455.7	2532.2	2542.4	6267.0	9717.9	7926.3	3313.5	1127.4
80°	99.3	95.4	110.7	288.9	2357.9	2385.9	2821.1	4717.1	2830.0	549.7	371.6
82.5°	70.0	66.2	71.3	120.9	741.9	2173.4	2041.1	2135.2	1173.2	211.2	166.7
85°	25.4	24.2	39.4	109.4	232.9	1249.6	2097.0	1761.1	950.5	96.7	122.2
87.5°	8.9	7.6	15.3	59.8	71.3	531.9	1294.1	1331.0	374.1	58.5	57.3
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°	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2	5857.2
2.5°	5805.0	5726.2	5581.1	5432.2	5294.8	5129.4	5046.7	4965.2	4930.9	4918.1	4858.3
5°	5637.1	5503.5	5195.5	4886.3	4601.3	4298.4	4098.7	3938.3	3844.2	3798.3	3725.8
7.5°	5422.0	5203.2	4736.2	4259.0	3814.9	3377.2	3052.7	2803.3	2631.5	2548.8	2473.7
10°	5213.3	4921.9	4257.7	3607.5	3004.3	2424.1	1976.2	1651.7	1444.3	1348.8	1287.7
12.5°	5026.3	4648.4	3795.8	2972.5	2215.4	1535.9	1080.3	822.0	693.5	649.0	627.3
15°	4859.6	4396.4	3359.3	2369.4	1500.3	878.0	590.4	502.6	482.3	482.3	479.7
17.5°	4701.8	4149.6	2938.2	1803.1	941.6	537.0	449.2	437.7	437.7	442.8	442.8
20°	4550.4	3914.1	2531.0	1294.1	593.0	426.3	405.9	403.4	405.9	412.3	412.3
22.5°	4420.6	3700.4	2150.5	888.2	440.3	384.3	374.1	370.3	371.6	375.4	377.9
25°	4323.9	3519.7	1791.7	601.9	379.2	349.9	338.5	332.1	327.0	327.0	329.6
27.5°	4262.8	3367.0	1444.3	437.7	341.0	318.1	300.3	290.1	278.7	272.3	274.9
30°	4218.3	3221.9	1118.5	357.6	305.4	282.5	259.6	243.0	226.5	218.9	221.4
32.5°	4201.7	3104.8	836.0	315.6	273.6	248.1	220.1	198.5	180.7	174.3	175.6
35°	4246.3	3012.0	612.1	285.0	248.1	216.3	184.5	160.3	146.3	142.5	143.8
37.5°	4363.3	2962.3	458.1	259.6	225.2	189.6	154.0	131.1	122.2	122.2	123.4
40°	4584.7	2961.1	367.7	241.8	204.9	164.1	127.2	110.7	105.6	108.2	109.4
42.5°	4908.0	3028.5	320.7	225.2	187.1	140.0	105.6	94.2	92.9	95.4	96.7
45°	5349.5	3151.9	295.2	211.2	168.0	117.1	89.1	81.4	81.4	85.3	86.5
47.5°	5890.3	3332.6	273.6	197.2	148.9	98.0	76.3	71.3	72.5	76.3	77.6
50°	6541.8	3560.4	252.0	182.0	134.9	81.4	66.2	62.4	63.6	68.7	70.0
52.5°	7283.7	3867.1	234.1	168.0	117.1	67.4	56.0	53.4	56.0	61.1	62.4
55°	7919.9	4141.9	212.5	156.5	94.2	56.0	45.8	45.8	48.4	54.7	56.0
57.5°	8532.0	4429.5	193.4	134.9	73.8	44.5	38.2	39.4	43.3	49.6	50.9
60°	9430.3	4916.9	170.5	113.3	56.0	35.6	31.8	33.1	38.2	44.5	45.8
62.5°	10956.0	5658.7	147.6	94.2	43.3	28.0	25.4	28.0	34.4	42.0	43.3
65°	12332.9	5960.3	120.9	78.9	33.1	21.6	21.6	25.4	33.1	40.7	42.0
67.5°	11565.6	5017.4	94.2	62.4	25.4	16.5	17.8	24.2	31.8	40.7	42.0
69°	10228.2	4102.5	80.2	49.6	21.6	15.3	16.5	24.2	31.8	39.4	40.7
70°	9186.0	3463.7	71.3	42.0	19.1	15.3	16.5	22.9	31.8	39.4	40.7
72.5°	6152.4	1870.5	57.3	30.5	17.8	14.0	14.0	22.9	30.5	38.2	39.4
75°	2644.2	516.6	45.8	21.6	15.3	12.7	12.7	21.6	29.3	36.9	39.4
77.5°	483.5	131.1	36.9	19.1	15.3	12.7	11.5	20.4	28.0	35.6	36.9
80°	192.1	64.9	29.3	16.5	14.0	11.5	10.2	19.1	26.7	34.4	35.6
82.5°	115.8	36.9	24.2	15.3	14.0	10.2	8.9	16.5	25.4	33.1	34.4
85°	94.2	25.4	19.1	15.3	12.7	10.2	7.6	15.3	22.9	31.8	33.1
87.5°	45.8	17.8	17.8	14.0	12.7	10.2	7.6	14.0	21.6	30.5	31.8
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)