

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: P193765

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193765
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-07-LED-E1-SL4-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 30588 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 448
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

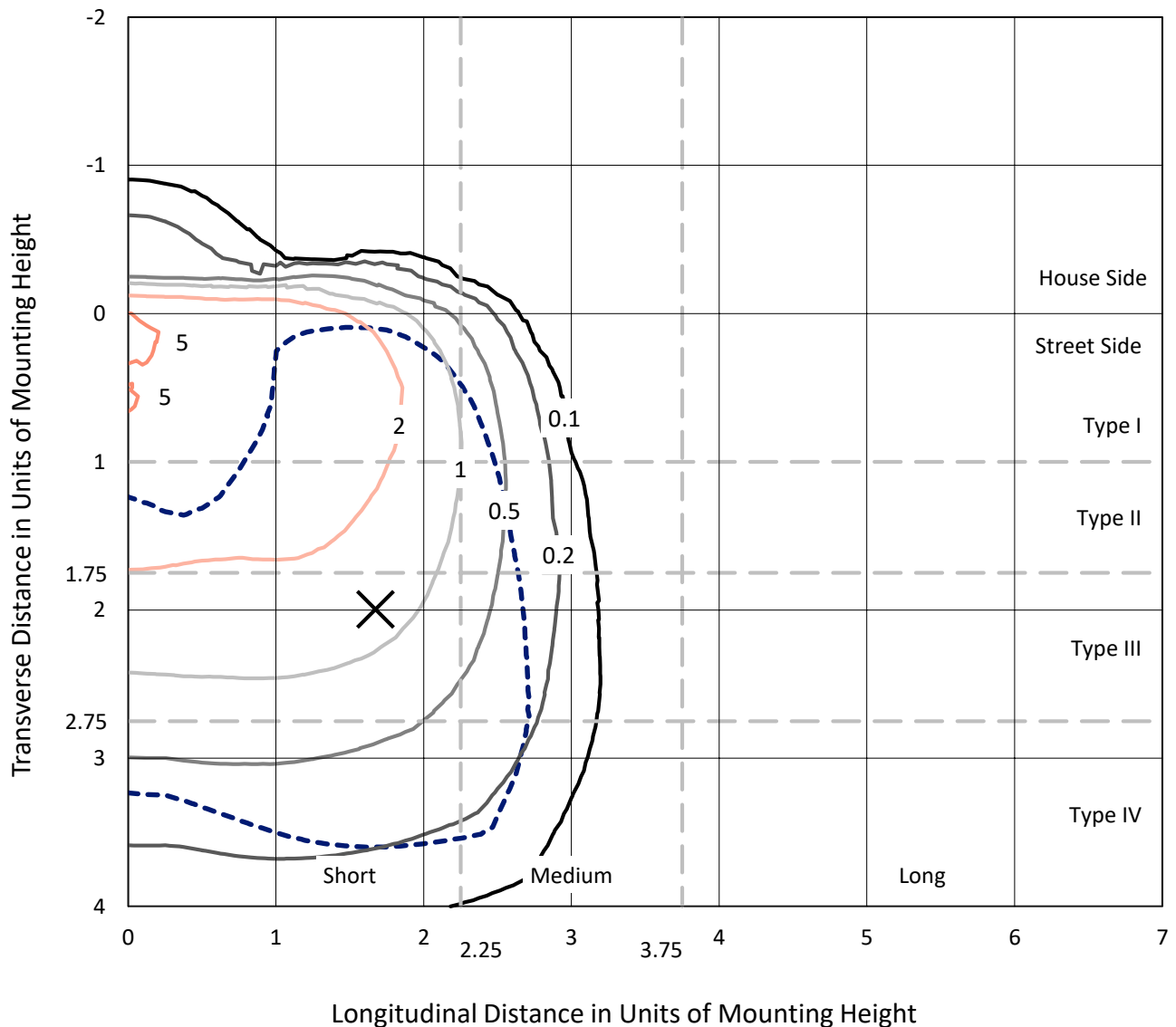


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

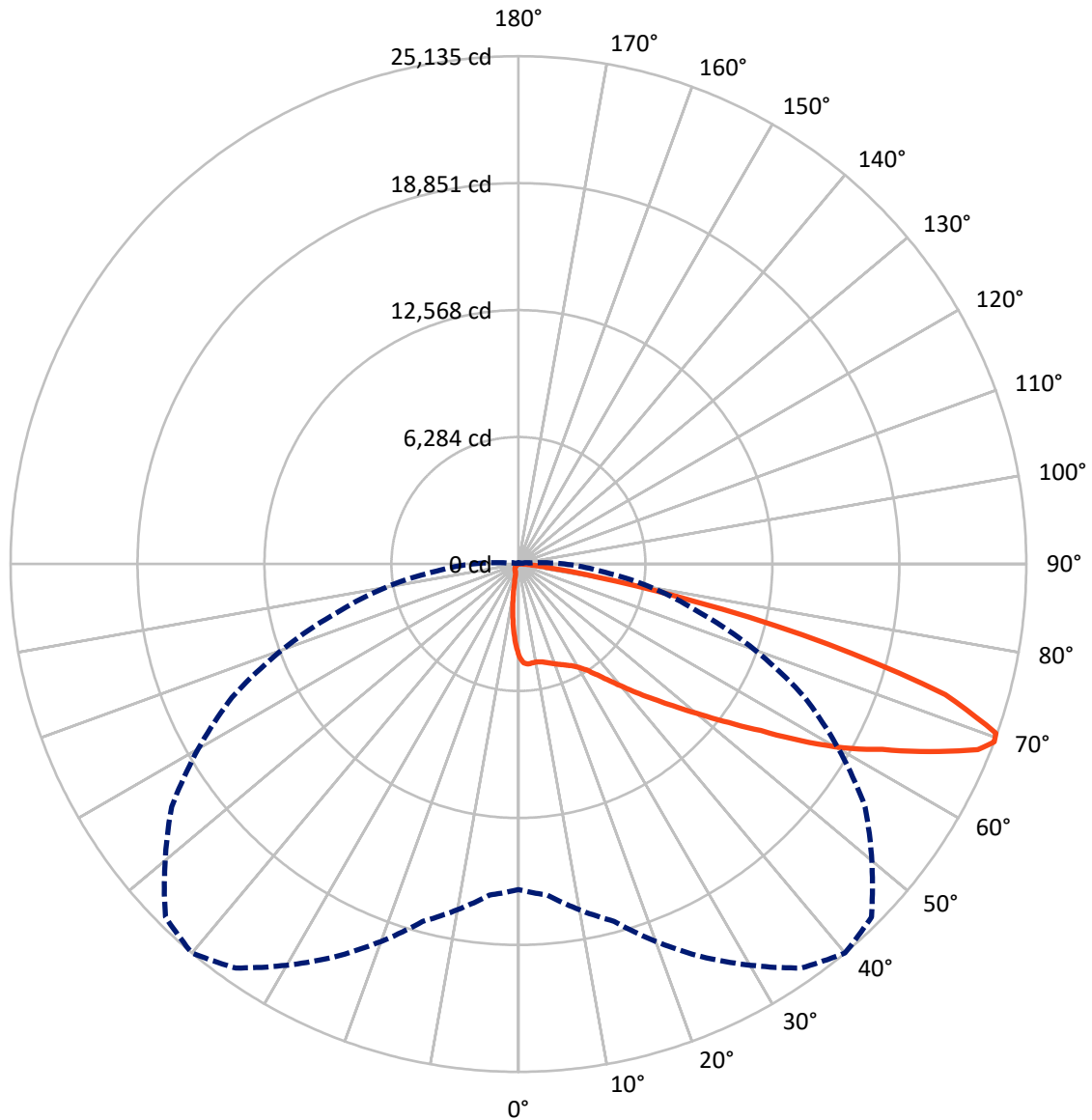


Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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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	1789.6	0.0	1789.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	28798.4	0.0	28798.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	30588.0	0.0	30588.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.5	1.2
10°-20°	911.2	3.0
20°-30°	1534.8	5.0
30°-40°	2512.5	8.2
40°-50°	4350.4	14.2
50°-60°	6852.2	22.4
60°-70°	8948.8	29.3
70°-80°	4609.0	15.1
80°-90°	498.6	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°	30588.0	100.0
0°-180°	30588.0	100.0



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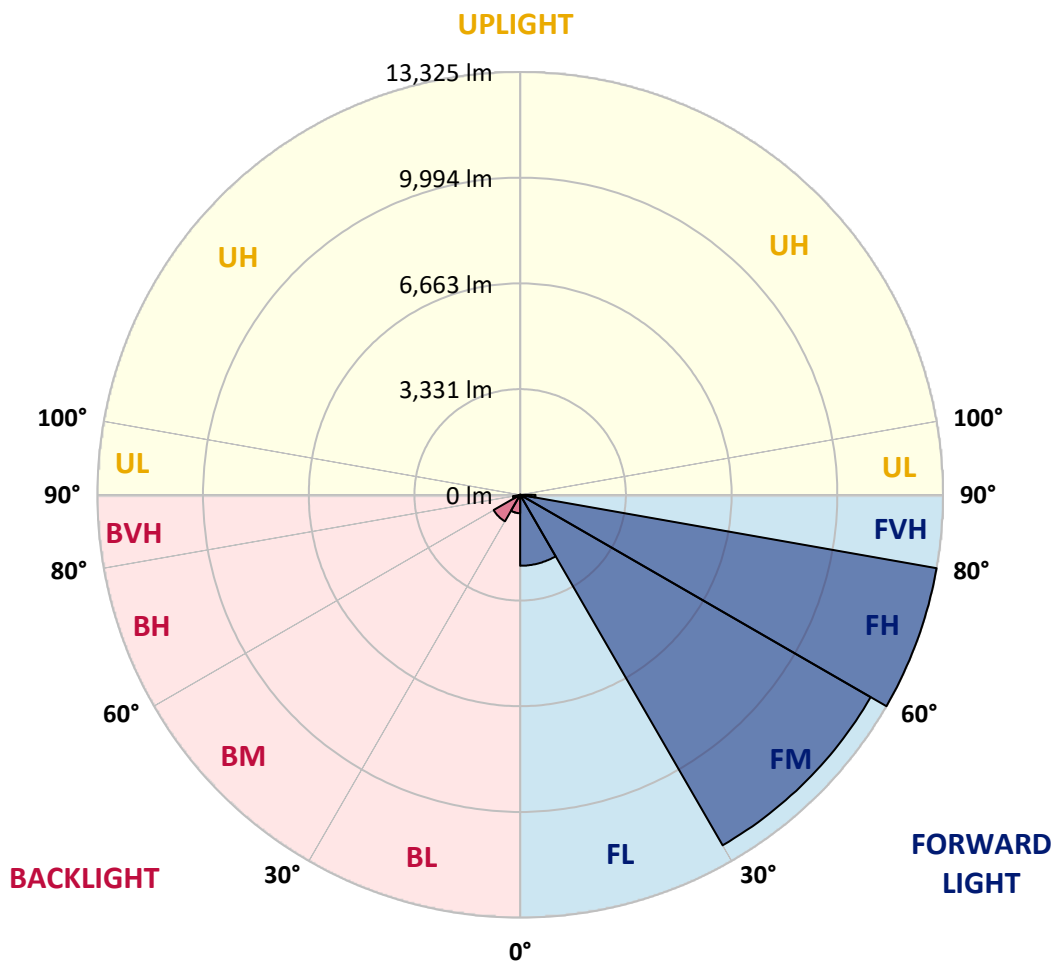
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2236.9	7.3			
FM	(30°-60°)	12753.3	41.7			
FH	(60°-80°)	13325.4	43.6			G5
FVH	(80°-90°)	482.9	1.6			G3/500
BL	(0°-30°)	579.7	1.9	B2/1000		
BM	(30°-60°)	961.8	3.1	B1/1000		
BH	(60°-80°)	232.4	0.8	B1/500		G1/500
BVH	(80°-90°)	15.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0
2.5°	5017.9	4990.6	4974.2	4952.4	4925.0	4901.4	4892.3	4824.9	4761.2	4673.8	4573.6
5°	5110.8	5101.7	5072.5	5043.4	5010.6	4974.2	4954.2	4874.1	4783.0	4655.6	4480.8
7.5°	5119.9	5108.9	5072.5	5032.5	4986.9	4943.3	4908.7	4828.5	4744.8	4615.5	4402.5
10°	5105.3	5092.6	5065.2	5021.5	4965.1	4923.2	4888.6	4812.2	4741.2	4624.6	4387.9
12.5°	5088.9	5076.2	5063.4	5041.6	4992.4	4963.3	4934.1	4861.3	4797.6	4699.3	4440.7
15°	5105.3	5098.0	5112.6	5103.5	5076.2	5050.7	5021.5	4956.0	4897.7	4815.8	4537.2
17.5°	5174.5	5174.5	5220.0	5225.5	5200.0	5163.6	5121.7	5056.1	5007.0	4937.8	4651.9
20°	5336.5	5331.1	5389.3	5400.3	5338.3	5281.9	5220.0	5139.9	5101.7	5058.0	4764.8
22.5°	5615.1	5589.6	5624.2	5613.3	5491.3	5403.9	5327.4	5229.1	5209.1	5189.0	4890.5
25°	5977.4	5962.9	5986.5	5879.1	5664.3	5545.9	5454.9	5343.8	5343.8	5363.8	5032.5
27.5°	6503.6	6449.0	6368.9	6179.5	5857.3	5706.1	5607.8	5489.5	5520.4	5595.1	5220.0
30°	7042.5	6982.5	6798.6	6507.2	6092.1	5933.7	5819.0	5695.2	5768.0	5904.6	5471.3
32.5°	7574.2	7506.8	7246.5	6878.7	6429.0	6270.6	6159.5	6022.9	6144.9	6374.3	5839.0
35°	8089.5	8029.4	7729.0	7295.6	6876.9	6745.8	6643.8	6525.5	6682.0	7002.5	6358.0
37.5°	8668.4	8602.9	8236.9	7767.2	7421.3	7326.6	7251.9	7133.6	7406.7	7876.4	7080.8
40°	9380.3	9269.3	8775.9	8307.9	8051.2	8005.7	7954.7	7938.3	8362.6	9012.6	8043.9
42.5°	10196.0	10014.0	9340.3	8877.8	8743.1	8775.9	8763.1	8835.9	9558.8	10425.4	9216.5
45°	11011.7	10776.8	9968.4	9485.9	9504.2	9618.9	9689.9	9981.2	11057.2	12045.9	10478.2
47.5°	11703.6	11472.3	10571.1	10143.2	10361.7	10587.5	10780.5	11332.2	12597.6	13640.8	11459.6
50°	12295.3	12076.8	11210.2	10866.1	11357.6	11721.8	12035.0	12852.5	14254.4	14855.2	12147.8
52.5°	12779.6	12634.0	11872.9	11694.5	12495.6	13029.1	13487.9	14467.4	15721.9	15842.1	12683.1
55°	13251.2	13147.4	12584.8	12679.5	13832.0	14558.5	15139.3	16180.7	16985.5	16665.0	13196.6
57.5°	13793.8	13699.1	13396.8	13928.5	15589.0	16503.0	17136.6	17699.2	18097.9	17506.2	13680.9
60°	14347.3	14292.6	14299.9	15315.9	17606.4	18483.9	18833.5	18979.2	19190.4	18298.2	13708.2
62.5°	14875.3	14979.1	15332.3	16859.9	19538.1	20211.8	20388.4	20532.2	20284.6	18423.9	12664.9
65°	15769.2	15938.6	16781.6	18926.4	21662.9	22383.9	22566.0	22072.6	20457.6	16799.8	10301.6
67.5°	16206.2	16515.7	18019.7	20852.7	23724.0	24525.1	24457.7	22172.7	18358.3	12810.6	6611.0
69°	16115.2	16444.7	18305.5	21442.6	24408.6	25135.0	24707.2	20947.4	15640.0	9280.2	4058.4
70°	15754.7	16087.9	18158.0	21420.8	24496.0	25071.3	24244.7	19434.4	13223.9	6785.8	2538.1
72.5°	13156.5	13444.2	16120.6	19361.5	22566.0	22098.1	20282.8	13464.2	6443.5	1848.0	571.7
75°	8098.6	8258.8	11567.0	14585.8	17043.7	15842.1	13513.4	6698.4	1920.9	522.5	316.8
77.5°	4278.7	4351.5	6332.5	8597.4	10804.1	8939.7	6926.0	2612.7	884.9	327.7	229.4
80°	2529.0	2583.6	3410.2	3930.9	4675.6	3905.4	2769.3	1604.1	633.6	205.7	203.9
82.5°	1447.5	1482.1	2472.5	2184.9	1842.6	1573.1	1378.3	1520.3	380.5	138.4	211.2
85°	531.6	538.9	1391.0	1662.3	1096.1	651.8	684.6	1259.9	102.0	87.4	165.7
87.5°	247.6	242.2	715.5	1017.8	640.9	413.3	533.5	276.7	40.1	56.4	45.5
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°	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0	4570.0
2.5°	4515.4	4448.0	4326.0	4200.4	4072.9	3974.6	3878.1	3801.7	3776.2	3728.8	3732.5
5°	4377.0	4253.2	3998.3	3739.8	3470.3	3248.2	3038.8	2869.5	2787.5	2703.8	2703.8
7.5°	4256.8	4076.6	3677.9	3257.3	2822.1	2456.1	2126.6	1879.0	1742.4	1633.2	1631.4
10°	4211.3	3967.3	3410.2	2807.5	2201.2	1702.4	1310.9	1059.7	930.4	846.6	843.0
12.5°	4231.4	3929.1	3204.5	2392.4	1631.4	1094.3	759.2	597.2	542.6	517.1	517.1
15°	4289.6	3918.2	2998.7	1986.4	1152.5	684.6	504.3	460.6	457.0	457.0	457.0
17.5°	4360.6	3921.8	2787.5	1591.3	784.7	489.8	435.2	429.7	433.3	433.3	433.3
20°	4433.5	3923.6	2559.9	1225.3	553.5	426.0	409.7	407.8	411.5	411.5	413.3
22.5°	4522.7	3932.8	2332.3	915.8	457.0	402.4	389.6	389.6	391.5	391.5	389.6
25°	4624.6	3951.0	2095.6	679.1	416.9	386.0	375.1	373.2	375.1	373.2	371.4
27.5°	4752.1	3976.5	1831.6	531.6	398.7	369.6	360.5	360.5	358.7	356.9	355.0
30°	4912.3	4005.6	1534.9	451.5	380.5	355.0	345.9	344.1	342.3	338.7	338.7
32.5°	5156.3	4069.3	1241.7	409.7	360.5	335.0	327.7	327.7	324.1	320.4	318.6
35°	5531.3	4194.9	979.5	384.2	338.7	313.2	304.1	304.1	300.4	298.6	296.8
37.5°	6050.2	4386.1	761.1	360.5	316.8	289.5	280.4	278.6	274.9	271.3	269.5
40°	6740.3	4622.8	599.0	338.7	295.0	265.8	258.5	254.9	247.6	242.2	242.2
42.5°	7607.0	4892.3	486.1	315.0	269.5	244.0	238.5	233.1	220.3	214.8	213.0
45°	8513.7	5134.4	411.5	287.7	244.0	222.1	218.5	209.4	193.0	187.5	187.5
47.5°	9167.3	5190.9	362.3	262.2	220.3	198.5	196.6	180.3	165.7	162.0	160.2
50°	9575.2	5079.8	322.3	236.7	198.5	176.6	171.1	151.1	142.0	138.4	136.6
52.5°	9850.1	4881.3	289.5	214.8	178.4	156.6	143.8	129.3	122.0	118.3	118.3
55°	10070.4	4601.0	256.7	194.8	162.0	140.2	122.0	111.1	103.8	100.1	100.1
57.5°	10132.3	4220.4	223.9	178.4	145.7	123.8	103.8	96.5	87.4	85.6	85.6
60°	9682.6	3534.0	198.5	158.4	131.1	107.4	91.0	81.9	72.8	71.0	69.2
62.5°	8497.3	2734.7	174.8	140.2	114.7	92.9	78.3	67.4	60.1	60.1	60.1
65°	6481.8	1833.5	152.9	122.0	100.1	78.3	67.4	54.6	51.0	51.0	52.8
67.5°	3880.0	997.8	131.1	103.8	85.6	65.5	56.4	47.3	45.5	47.3	47.3
69°	2274.1	586.3	118.3	92.9	74.6	58.3	49.2	41.9	45.5	47.3	47.3
70°	1403.8	395.1	109.2	83.8	67.4	52.8	45.5	40.1	43.7	45.5	45.5
72.5°	391.5	203.9	87.4	65.5	54.6	43.7	36.4	36.4	41.9	43.7	43.7
75°	254.9	151.1	67.4	49.2	41.9	34.6	31.0	34.6	40.1	41.9	41.9
77.5°	211.2	123.8	54.6	40.1	34.6	32.8	29.1	31.0	36.4	38.2	38.2
80°	193.0	87.4	43.7	36.4	31.0	29.1	27.3	25.5	32.8	34.6	34.6
82.5°	183.9	69.2	38.2	32.8	29.1	25.5	23.7	25.5	29.1	31.0	32.8
85°	114.7	45.5	34.6	31.0	25.5	23.7	23.7	23.7	27.3	29.1	29.1
87.5°	41.9	36.4	31.0	25.5	21.8	21.8	21.8	21.8	23.7	27.3	27.3
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)