

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: P191924

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191924
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-06-LED-E1-SL3-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA 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: 24574 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 249
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

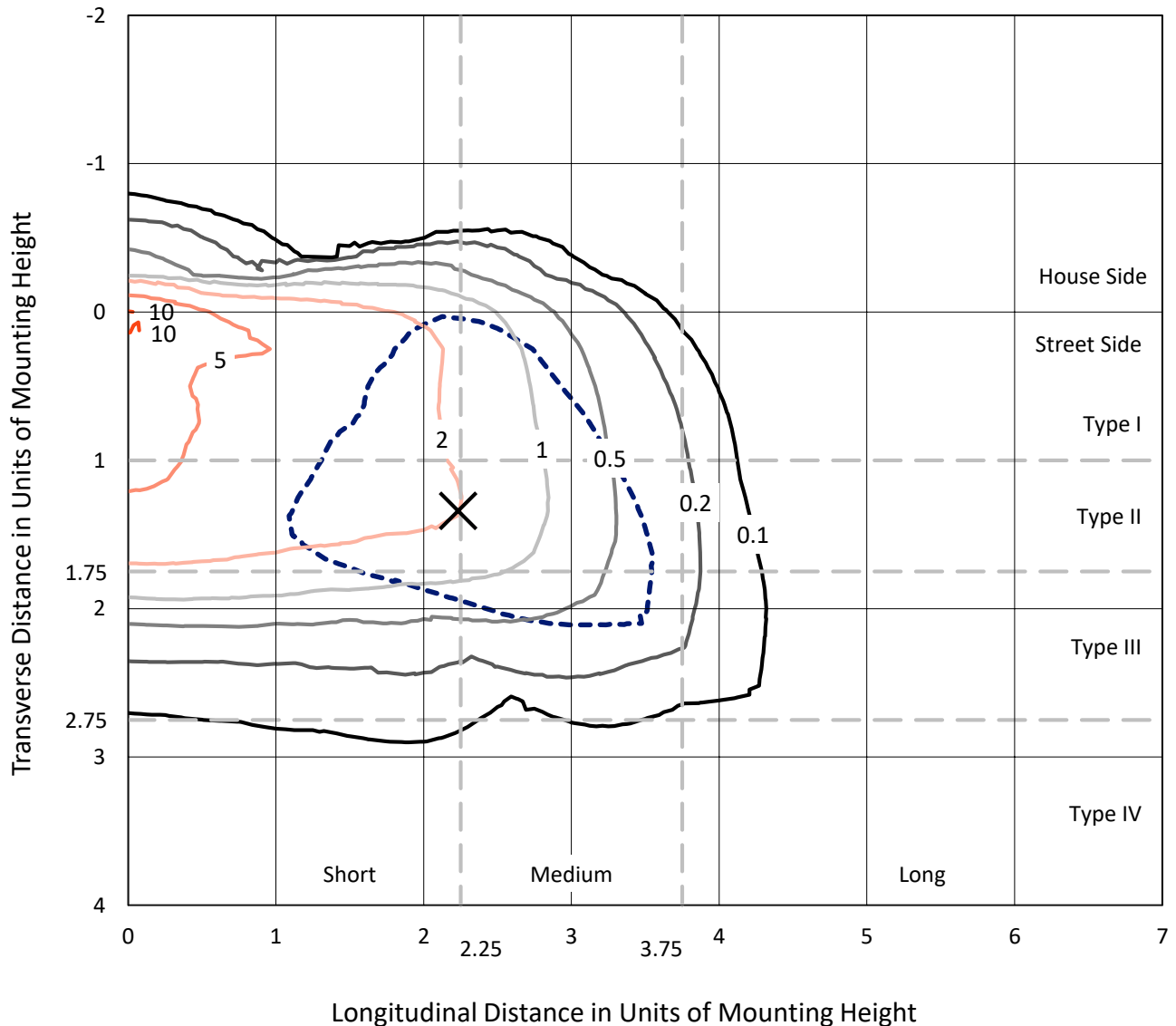


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

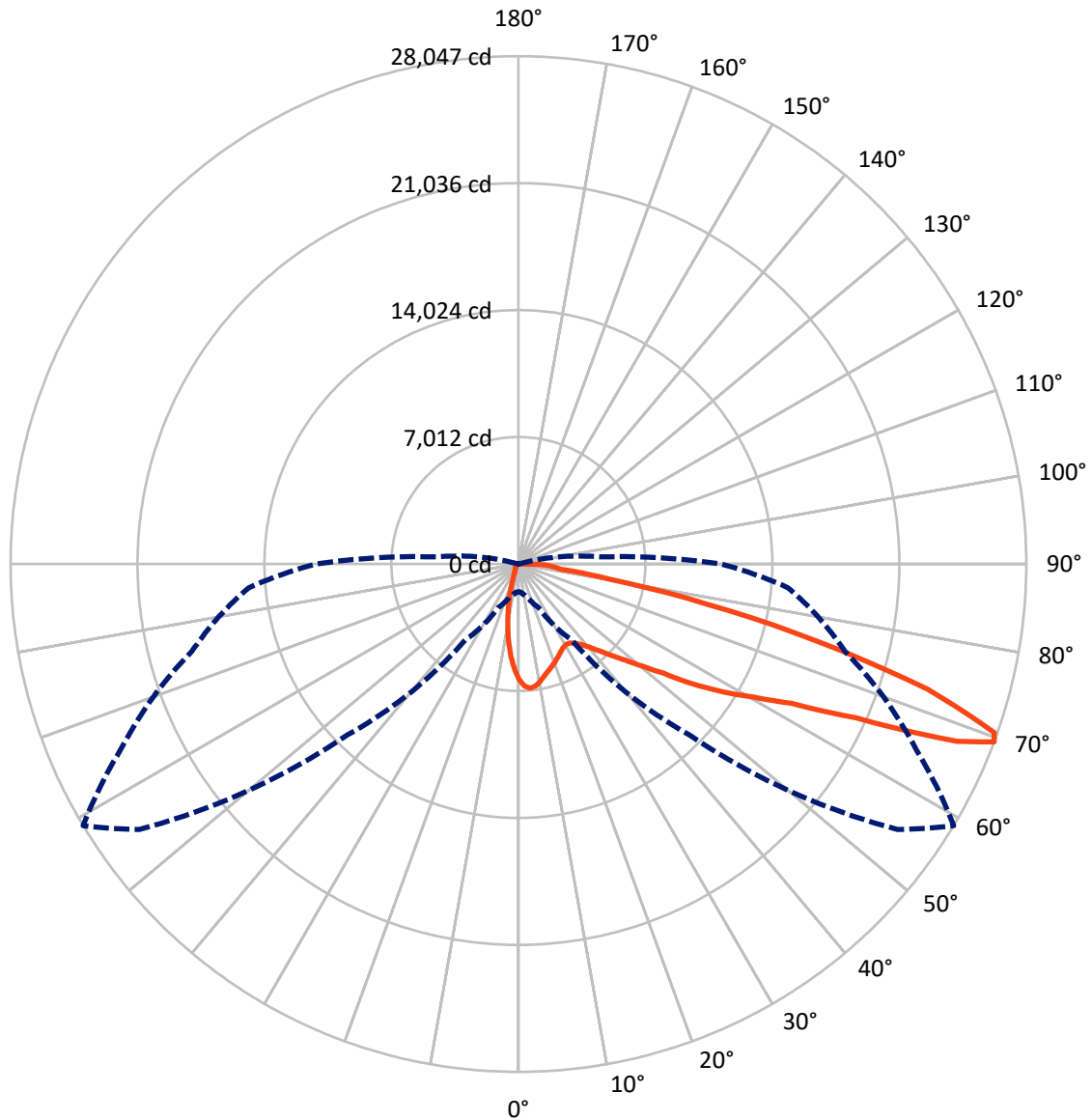


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - Non-Cutoff

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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	2001.2	0.0	2001.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	22572.8	0.0	22572.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	24574.0	0.0	24574.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.2	2.1
10°-20°	1072.8	4.4
20°-30°	1443.6	5.9
30°-40°	2096.0	8.5
40°-50°	3490.0	14.2
50°-60°	5444.3	22.2
60°-70°	6736.9	27.4
70°-80°	3414.2	13.9
80°-90°	357.2	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°	24574.0	100.0
0°-180°	24574.0	100.0



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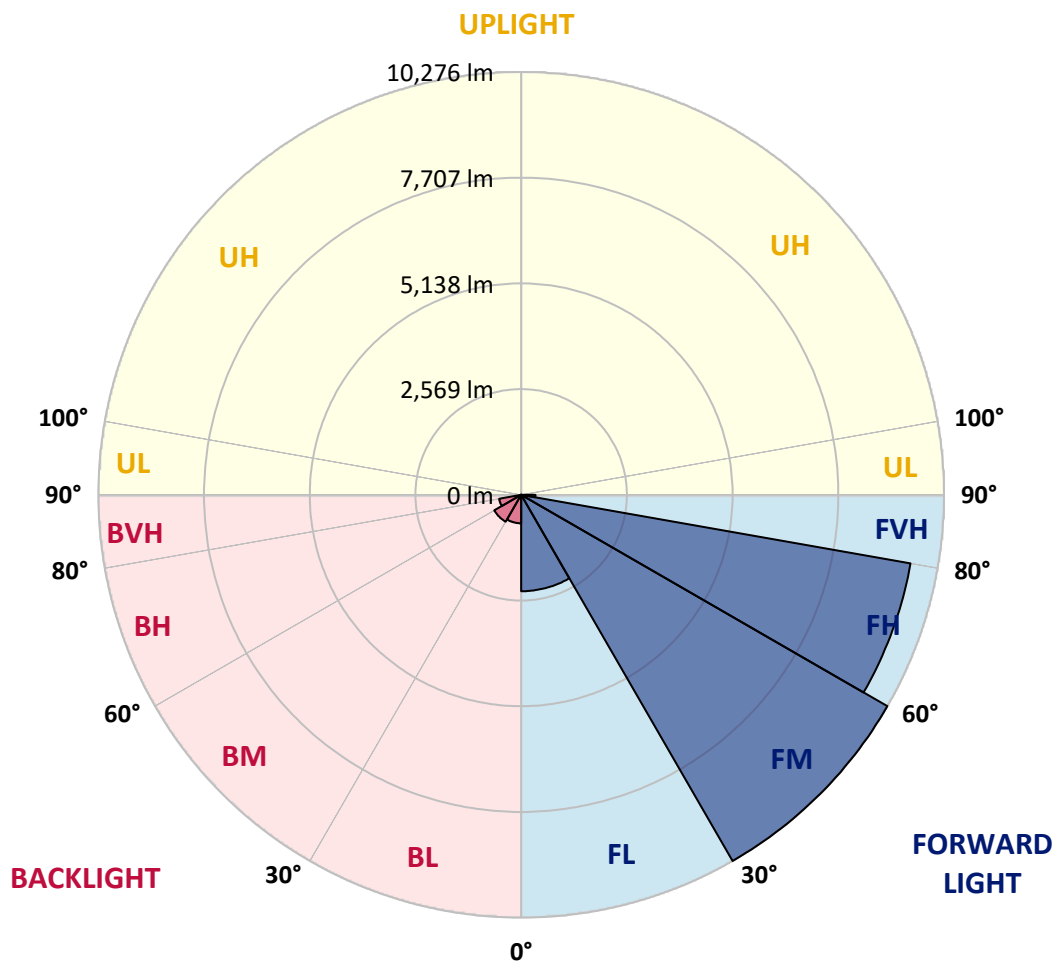
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2342.9	9.5			
FM	(30°-60°)	10276.1	41.8			
FH	(60°-80°)	9607.5	39.1			G4/12000
FVH	(80°-90°)	346.2	1.4			G3/500
BL	(0°-30°)	692.7	2.8	B2/1000		
BM	(30°-60°)	754.1	3.1	B1/1000		
BH	(60°-80°)	543.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.0	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°	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3
2.5°	7010.5	7007.7	6977.1	6963.2	6938.2	6885.4	6803.4	6760.3	6690.9	6570.0	6407.4
5°	6946.5	6979.9	6998.0	6999.4	7017.4	6998.0	6924.3	6888.2	6792.3	6597.8	6305.9
7.5°	6513.0	6525.5	6576.9	6621.4	6707.5	6789.5	6815.9	6800.6	6743.7	6535.2	6147.5
10°	6048.9	6061.4	6122.5	6180.9	6297.6	6424.1	6557.5	6585.3	6608.9	6446.3	5994.7
12.5°	5648.7	5661.2	5723.7	5800.1	5936.3	6092.0	6299.0	6344.9	6449.1	6361.5	5872.4
15°	5304.1	5309.6	5370.8	5465.2	5627.8	5827.9	6062.8	6136.4	6296.2	6301.8	5765.4
17.5°	5010.9	5024.7	5062.3	5152.6	5330.5	5577.8	5851.6	5957.2	6144.8	6251.8	5661.2
20°	4831.6	4845.5	4844.1	4894.1	5053.9	5318.0	5640.3	5766.8	5994.7	6200.3	5568.1
22.5°	4796.9	4796.9	4760.7	4753.8	4848.3	5069.2	5420.8	5575.0	5859.9	6178.1	5502.8
25°	4920.5	4915.0	4824.6	4751.0	4755.2	4887.2	5208.2	5391.6	5745.9	6193.4	5468.0
27.5°	5181.8	5174.8	5060.9	4920.5	4808.0	4806.6	5047.0	5244.3	5655.6	6265.7	5481.9
30°	5543.1	5540.3	5416.6	5240.1	5035.9	4848.3	4991.4	5170.7	5597.3	6396.3	5513.9
32.5°	5937.7	5933.5	5840.4	5654.2	5395.8	5035.9	5049.8	5199.8	5613.9	6570.0	5591.7
35°	6356.0	6349.0	6308.7	6146.1	5861.3	5381.9	5241.5	5358.3	5719.5	6829.8	5744.6
37.5°	6809.0	6815.9	6845.1	6689.5	6390.7	5866.8	5562.5	5641.7	5932.2	7182.8	5993.3
40°	7477.4	7476.0	7485.7	7281.4	6993.8	6460.2	6011.4	6036.4	6287.9	7651.1	6371.3
42.5°	8690.5	8605.7	8348.6	7931.8	7642.7	7138.3	6576.9	6550.5	6722.8	8230.5	6900.7
45°	10320.5	10139.8	9472.8	8673.8	8304.2	7902.6	7273.1	7188.3	7298.1	8926.7	7553.8
47.5°	11722.6	11535.0	10591.4	9446.4	9005.9	8628.0	8088.8	7935.9	7972.1	9706.3	8382.0
50°	12199.2	12107.5	11283.5	10119.0	9685.4	9540.9	9035.1	8848.9	8797.5	10608.1	9342.2
52.5°	12033.8	12026.9	11478.0	10555.3	10308.0	10485.8	10226.0	10010.6	9821.6	11558.6	10319.1
55°	11768.4	11803.2	11557.2	10937.4	10929.1	11348.8	11854.6	11675.3	11127.8	12591.1	11161.2
57.5°	11036.1	11184.8	11512.7	11660.0	12001.9	12431.3	13210.8	13316.4	12668.9	13381.7	11860.1
60°	8954.5	9281.1	10353.8	11764.2	13384.5	14454.5	14847.7	14938.1	13933.4	14039.0	12803.7
62.5°	6356.0	6689.5	8049.9	10435.8	13405.4	17112.8	17286.5	16932.1	15325.8	15013.1	14430.9
65°	3373.9	3631.0	4742.7	7533.0	11622.5	17729.8	21551.1	20495.0	17782.6	16929.3	16533.3
67.5°	1725.9	1803.7	2245.6	3686.6	7990.1	15748.2	25373.9	26117.3	22016.6	18830.3	16431.9
69°	1527.2	1573.0	1866.2	2665.2	5116.5	13338.7	25560.1	28047.4	24233.0	18671.9	14932.5
70°	1478.5	1518.8	1785.6	2412.3	3999.2	11186.2	24847.2	27877.9	24800.0	18068.8	13812.5
72.5°	1254.8	1289.5	1589.7	2131.6	3250.2	5552.8	20183.8	23623.0	22254.2	15052.0	9998.1
75°	839.3	953.3	1525.8	1998.2	3023.7	3154.4	13306.7	17071.1	15858.0	10152.3	5208.2
77.5°	201.5	216.8	430.8	1589.7	2765.3	2776.4	6843.7	10612.3	8655.7	3618.5	1231.2
80°	108.4	104.2	120.9	315.4	2574.9	2605.5	3080.7	5151.2	3090.4	600.3	405.8
82.5°	76.4	72.3	77.8	132.0	810.1	2373.4	2228.9	2331.7	1281.2	230.7	182.0
85°	27.8	26.4	43.1	119.5	254.3	1364.6	2290.0	1923.2	1038.0	105.6	133.4
87.5°	9.7	8.3	16.7	65.3	77.8	580.8	1413.2	1453.5	408.5	63.9	62.5
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°	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3	6396.3
2.5°	6339.3	6253.1	6094.7	5932.2	5782.1	5601.4	5511.1	5422.2	5384.7	5370.8	5305.4
5°	6155.9	6010.0	5673.7	5336.0	5024.7	4694.0	4475.9	4300.8	4197.9	4147.9	4068.7
7.5°	5921.0	5682.0	5172.0	4651.0	4166.0	3688.0	3333.6	3061.3	2873.7	2783.3	2701.4
10°	5693.1	5374.9	4649.6	3939.5	3280.8	2647.2	2158.0	1803.7	1577.2	1473.0	1406.3
12.5°	5488.9	5076.2	4145.1	3246.1	2419.3	1677.2	1179.8	897.7	757.3	708.7	685.1
15°	5306.8	4801.0	3668.5	2587.4	1638.3	958.8	644.8	548.9	526.7	526.7	523.9
17.5°	5134.5	4531.4	3208.6	1969.0	1028.3	586.4	490.5	478.0	478.0	483.6	483.6
20°	4969.2	4274.4	2763.9	1413.2	647.5	465.5	443.3	440.5	443.3	450.2	450.2
22.5°	4827.4	4040.9	2348.4	969.9	480.8	419.7	408.5	404.4	405.8	409.9	412.7
25°	4721.8	3843.6	1956.5	657.3	414.1	382.1	369.6	362.7	357.1	357.1	359.9
27.5°	4655.1	3676.8	1577.2	478.0	372.4	347.4	327.9	316.8	304.3	297.4	300.2
30°	4606.5	3518.4	1221.4	390.5	333.5	308.5	283.5	265.4	247.3	239.0	241.8
32.5°	4588.4	3390.6	913.0	344.6	298.8	271.0	240.4	216.8	197.3	190.4	191.8
35°	4637.1	3289.2	668.4	311.3	271.0	236.2	201.5	175.1	159.8	155.6	157.0
37.5°	4764.9	3235.0	500.3	283.5	246.0	207.0	168.1	143.1	133.4	133.4	134.8
40°	5006.7	3233.6	401.6	264.0	223.7	179.3	139.0	120.9	115.3	118.1	119.5
42.5°	5359.6	3307.2	350.2	246.0	204.3	152.9	115.3	102.8	101.4	104.2	105.6
45°	5841.8	3442.0	322.4	230.7	183.4	127.8	97.3	88.9	88.9	93.1	94.5
47.5°	6432.4	3639.3	298.8	215.4	162.6	107.0	83.4	77.8	79.2	83.4	84.8
50°	7143.9	3888.1	275.1	198.7	147.3	88.9	72.3	68.1	69.5	75.0	76.4
52.5°	7954.0	4223.0	255.7	183.4	127.8	73.6	61.1	58.4	61.1	66.7	68.1
55°	8648.8	4523.1	232.1	170.9	102.8	61.1	50.0	50.0	52.8	59.8	61.1
57.5°	9317.2	4837.2	211.2	147.3	80.6	48.6	41.7	43.1	47.2	54.2	55.6
60°	10298.2	5369.4	186.2	123.7	61.1	38.9	34.7	36.1	41.7	48.6	50.0
62.5°	11964.4	6179.5	161.2	102.8	47.2	30.6	27.8	30.6	37.5	45.9	47.2
65°	13467.9	6508.8	132.0	86.2	36.1	23.6	23.6	27.8	36.1	44.5	45.9
67.5°	12630.0	5479.1	102.8	68.1	27.8	18.1	19.5	26.4	34.7	44.5	45.9
69°	11169.5	4480.0	87.5	54.2	23.6	16.7	18.1	26.4	34.7	43.1	44.5
70°	10031.4	3782.5	77.8	45.9	20.8	16.7	18.1	25.0	34.7	43.1	44.5
72.5°	6718.7	2042.7	62.5	33.4	19.5	15.3	15.3	25.0	33.4	41.7	43.1
75°	2887.6	564.2	50.0	23.6	16.7	13.9	13.9	23.6	32.0	40.3	43.1
77.5°	528.0	143.1	40.3	20.8	16.7	13.9	12.5	22.2	30.6	38.9	40.3
80°	209.8	70.9	32.0	18.1	15.3	12.5	11.1	20.8	29.2	37.5	38.9
82.5°	126.5	40.3	26.4	16.7	15.3	11.1	9.7	18.1	27.8	36.1	37.5
85°	102.8	27.8	20.8	16.7	13.9	11.1	8.3	16.7	25.0	34.7	36.1
87.5°	50.0	19.5	19.5	15.3	13.9	11.1	8.3	15.3	23.6	33.4	34.7
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)