

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: P191943

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191943
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-05-LED-E1-SL3-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 27881 lumens
Efficiency: N/A
Efficacy: 87.1 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): 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

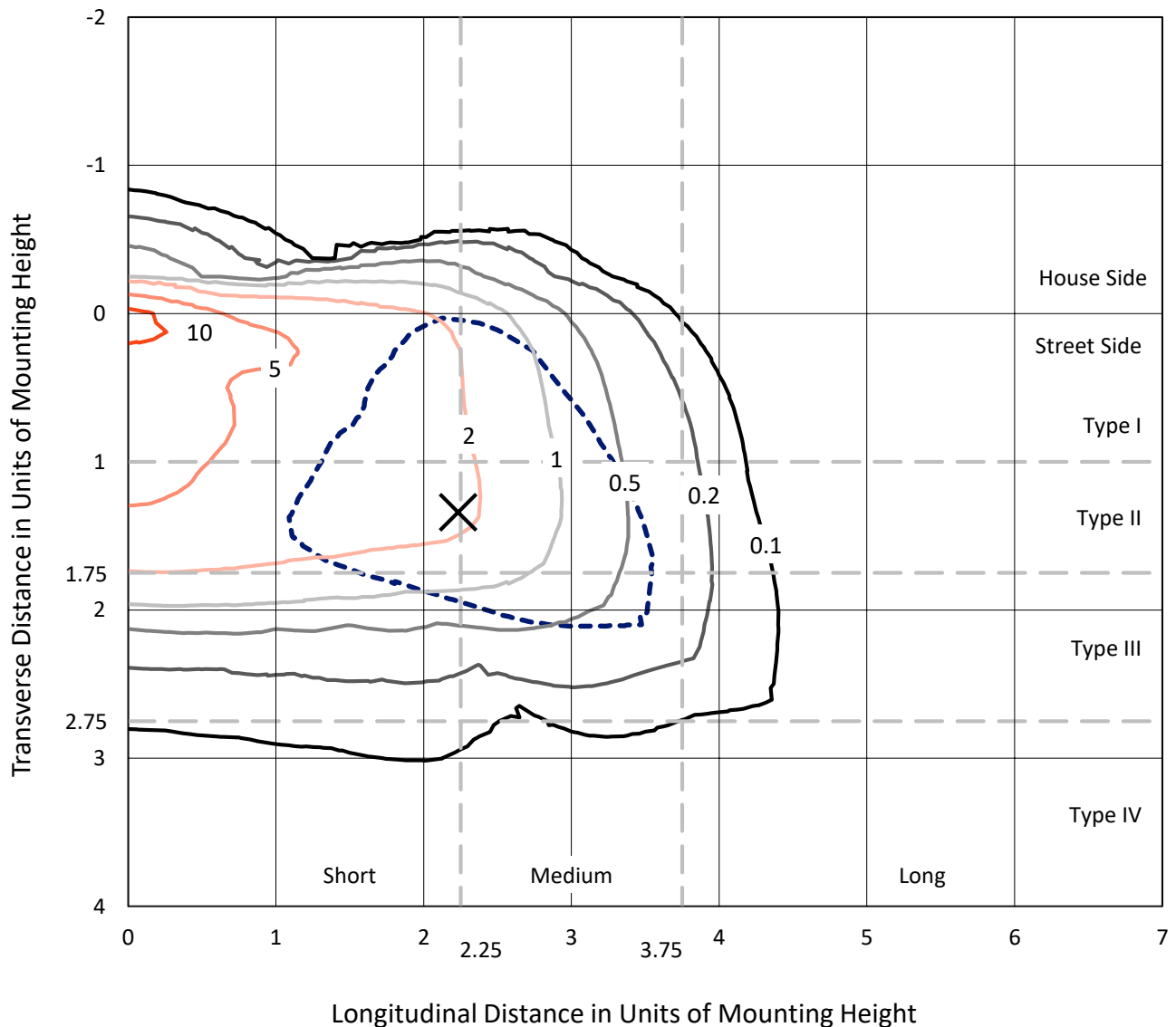


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

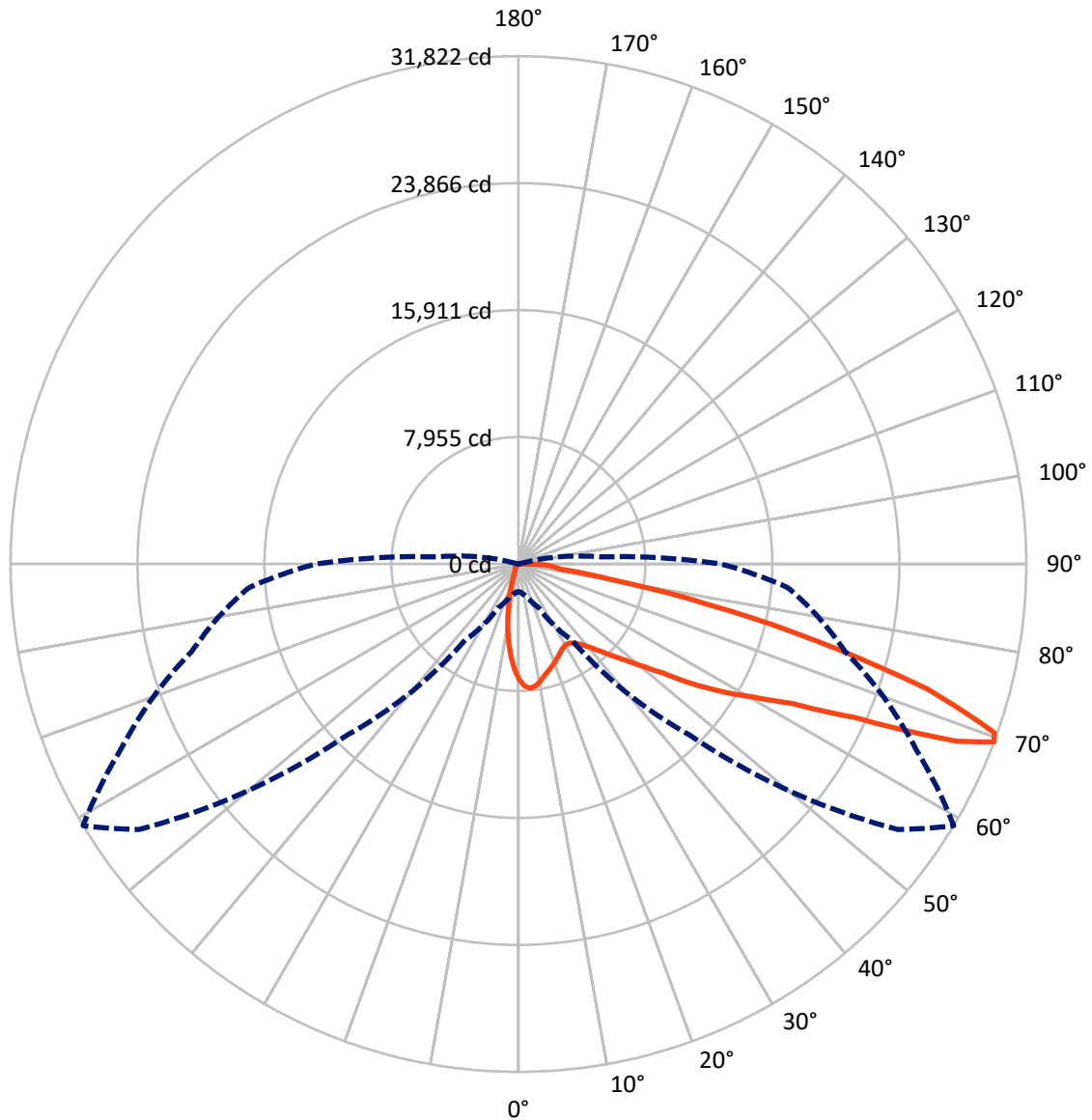


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - Non-Cutoff

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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	2270.5	0.0	2270.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	25610.5	0.0	25610.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	27881.0	0.0	27881.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.1	2.1
10°-20°	1217.1	4.4
20°-30°	1637.8	5.9
30°-40°	2378.0	8.5
40°-50°	3959.6	14.2
50°-60°	6176.9	22.2
60°-70°	7643.5	27.4
70°-80°	3873.6	13.9
80°-90°	405.3	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°	27881.0	100.0
0°-180°	27881.0	100.0



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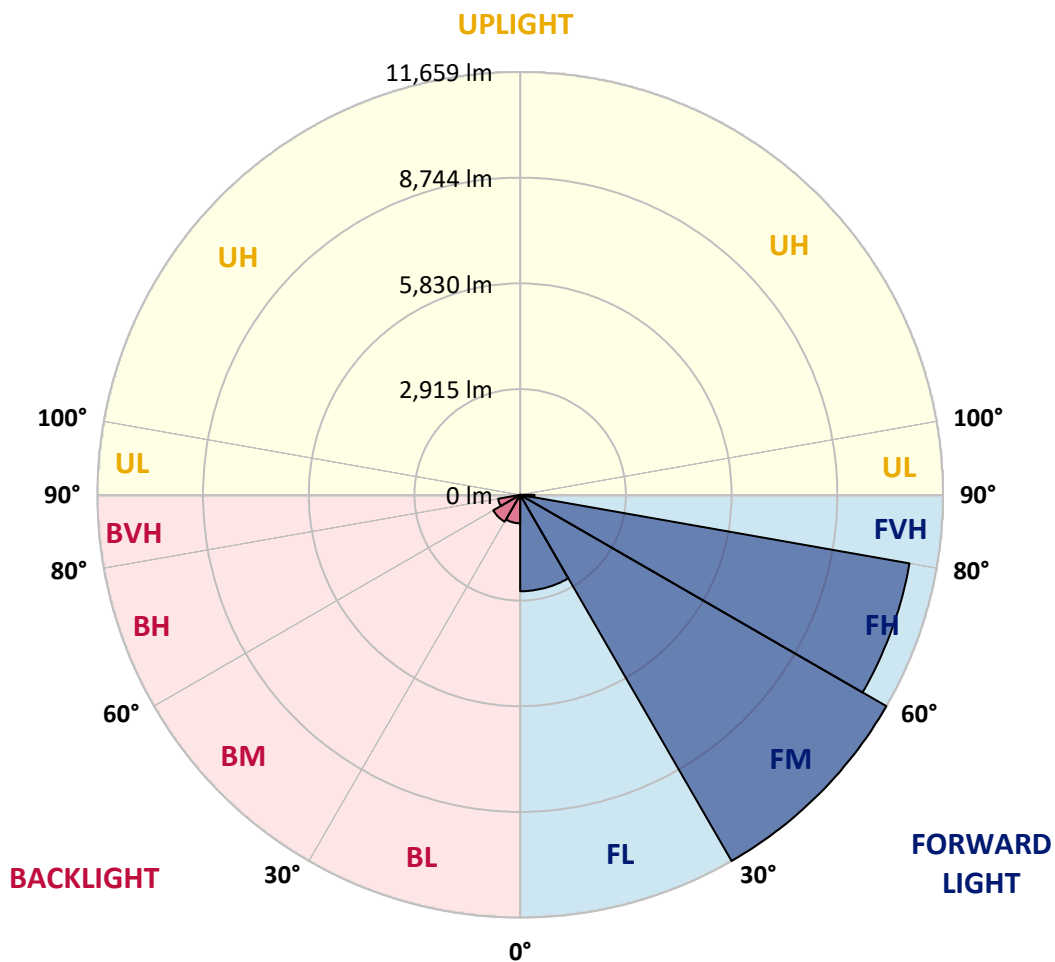
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2658.1	9.5			
FM (30°-60°)	11659.0	41.8			
FH (60°-80°)	10900.5	39.1			G4/12000
FVH (80°-90°)	392.8	1.4			G3/500
BL (0°-30°)	785.9	2.8	B2/1000		
BM (30°-60°)	855.5	3.1	B1/1000		
BH (60°-80°)	616.6	2.2	B2/1000		G2/1000
BVH (80°-90°)	12.5	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°	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0
2.5°	7953.9	7950.7	7916.1	7900.3	7871.9	7812.0	7719.0	7670.1	7591.3	7454.1	7269.7
5°	7881.4	7919.2	7939.7	7941.3	7961.8	7939.7	7856.1	7815.2	7706.4	7485.6	7154.6
7.5°	7389.5	7403.7	7462.0	7512.4	7610.2	7703.2	7733.2	7715.8	7651.2	7414.7	6974.8
10°	6862.9	6877.1	6946.5	7012.7	7145.1	7288.6	7439.9	7471.5	7498.3	7313.8	6801.4
12.5°	6408.8	6423.0	6494.0	6580.7	6735.2	6911.8	7146.7	7198.7	7316.9	7217.6	6662.7
15°	6017.8	6024.1	6093.5	6200.7	6385.2	6612.2	6878.7	6962.2	7143.5	7149.8	6541.3
17.5°	5685.2	5700.9	5743.5	5846.0	6047.8	6328.4	6639.0	6758.8	6971.7	7093.1	6423.0
20°	5481.8	5497.6	5496.0	5552.7	5734.1	6033.6	6399.4	6542.8	6801.4	7034.7	6317.4
22.5°	5442.4	5442.4	5401.4	5393.5	5500.7	5751.4	6150.3	6325.3	6648.5	7009.5	6243.3
25°	5582.7	5576.4	5473.9	5390.4	5395.1	5544.9	5909.1	6117.2	6519.2	7026.9	6203.9
27.5°	5879.1	5871.2	5741.9	5582.7	5455.0	5453.4	5726.2	5950.0	6416.7	7108.8	6219.6
30°	6289.0	6285.9	6145.5	5945.3	5713.6	5500.7	5663.1	5866.5	6350.5	7257.0	6255.9
32.5°	6736.8	6732.0	6626.4	6415.1	6121.9	5713.6	5729.3	5899.6	6369.4	7454.1	6344.2
35°	7211.3	7203.4	7157.7	6973.3	6650.1	6106.1	5946.9	6079.3	6489.2	7748.9	6517.6
37.5°	7725.3	7733.2	7766.3	7589.7	7250.7	6656.4	6311.1	6401.0	6730.5	8149.4	6799.8
40°	8483.6	8482.0	8493.1	8261.3	7935.0	7329.6	6820.3	6848.7	7134.1	8680.7	7228.7
42.5°	9860.0	9763.8	9472.1	8999.2	8671.2	8098.9	7462.0	7432.0	7627.5	9338.1	7829.3
45°	11709.3	11504.4	10747.6	9841.1	9421.7	8966.1	8251.9	8155.7	8280.2	10128.0	8570.3
47.5°	13300.1	13087.3	12016.8	10717.7	10217.9	9789.0	9177.3	9003.9	9044.9	11012.5	9510.0
50°	13840.9	13736.8	12801.9	11480.7	10988.8	10824.9	10251.0	10039.7	9981.4	12035.7	10599.4
52.5°	13653.3	13645.4	13022.6	11975.8	11695.1	11896.9	11602.1	11357.7	11143.3	13114.1	11707.7
55°	13352.1	13391.5	13112.5	12409.3	12399.9	12876.0	13449.9	13246.5	12625.3	14285.5	12663.2
57.5°	12521.3	12690.0	13062.0	13229.2	13617.0	14104.2	14988.6	15108.5	14373.8	15182.6	13456.2
60°	10159.5	10530.0	11747.2	13347.4	15185.7	16399.7	16845.9	16948.3	15808.5	15928.3	14526.7
62.5°	7211.3	7589.7	9133.2	11840.2	15209.4	19415.7	19612.8	19210.7	17388.2	17033.5	16372.9
65°	3828.0	4119.6	5380.9	8546.7	13186.6	20115.7	24451.3	23253.1	20175.6	19207.6	18758.3
67.5°	1958.1	2046.4	2547.8	4182.7	9065.4	17867.5	28788.5	29632.0	24979.5	21364.4	18643.2
69°	1732.7	1784.7	2117.4	3023.9	5805.0	15133.7	28999.8	31821.9	27494.1	21184.6	16942.0
70°	1677.5	1723.2	2025.9	2737.0	4537.4	12691.5	28191.0	31629.5	28137.4	20500.4	15671.3
72.5°	1423.7	1463.1	1803.6	2418.5	3687.6	6300.0	22900.0	26802.0	25249.1	17077.6	11343.6
75°	952.3	1081.5	1731.1	2267.1	3430.7	3578.9	15097.4	19368.4	17992.0	11518.6	5909.1
77.5°	228.6	245.9	488.7	1803.6	3137.4	3150.0	7764.7	12040.4	9820.6	4105.4	1396.9
80°	123.0	118.2	137.2	357.9	2921.4	2956.1	3495.3	5844.4	3506.3	681.1	460.4
82.5°	86.7	82.0	88.3	149.8	919.2	2692.8	2528.8	2645.5	1453.6	261.7	206.5
85°	31.5	30.0	48.9	135.6	288.5	1548.2	2598.2	2182.0	1177.7	119.8	151.4
87.5°	11.0	9.5	18.9	74.1	88.3	659.0	1603.4	1649.1	463.5	72.5	70.9
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°	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0	7257.0
2.5°	7192.4	7094.7	6914.9	6730.5	6560.2	6355.2	6252.8	6151.8	6109.3	6093.5	6019.4
5°	6984.3	6818.7	6437.2	6054.1	5700.9	5325.7	5078.2	4879.5	4762.9	4706.1	4616.3
7.5°	6717.8	6446.7	5868.1	5276.8	4726.6	4184.3	3782.2	3473.2	3260.4	3157.9	3064.9
10°	6459.3	6098.2	5275.3	4469.6	3722.3	3003.4	2448.4	2046.4	1789.4	1671.2	1595.5
12.5°	6227.5	5759.3	4703.0	3682.9	2744.8	1902.9	1338.5	1018.5	859.2	804.1	777.3
15°	6021.0	5447.1	4162.2	2935.6	1858.8	1087.8	731.5	622.8	597.5	597.5	594.4
17.5°	5825.5	5141.3	3640.3	2234.0	1166.7	665.3	556.5	542.3	542.3	548.7	548.7
20°	5637.9	4849.6	3135.8	1603.4	734.7	528.2	502.9	499.8	502.9	510.8	510.8
22.5°	5477.1	4584.7	2664.4	1100.5	545.5	476.1	463.5	458.8	460.4	465.1	468.2
25°	5357.2	4360.8	2219.8	745.7	469.8	433.6	419.4	411.5	405.2	405.2	408.3
27.5°	5281.6	4171.7	1789.4	542.3	422.5	394.1	372.1	359.5	345.3	337.4	340.5
30°	5226.4	3991.9	1385.8	443.0	378.4	350.0	321.6	301.1	280.6	271.2	274.3
32.5°	5205.9	3846.9	1035.8	391.0	339.0	307.4	272.7	245.9	223.9	216.0	217.6
35°	5261.1	3731.8	758.3	353.2	307.4	268.0	228.6	198.7	181.3	176.6	178.2
37.5°	5406.1	3670.3	567.6	321.6	279.1	234.9	190.8	162.4	151.4	151.4	152.9
40°	5680.4	3668.7	455.6	299.6	253.8	203.4	157.7	137.2	130.9	134.0	135.6
42.5°	6080.9	3752.3	397.3	279.1	231.8	173.4	130.9	116.7	115.1	118.2	119.8
45°	6628.0	3905.2	365.8	261.7	208.1	145.0	110.4	100.9	100.9	105.6	107.2
47.5°	7298.0	4129.1	339.0	244.4	184.5	121.4	94.6	88.3	89.9	94.6	96.2
50°	8105.2	4411.3	312.2	225.5	167.1	100.9	82.0	77.3	78.8	85.1	86.7
52.5°	9024.4	4791.3	290.1	208.1	145.0	83.6	69.4	66.2	69.4	75.7	77.3
55°	9812.7	5131.8	263.3	193.9	116.7	69.4	56.8	56.8	59.9	67.8	69.4
57.5°	10571.0	5488.1	239.6	167.1	91.4	55.2	47.3	48.9	53.6	61.5	63.1
60°	11684.1	6091.9	211.3	140.3	69.4	44.1	39.4	41.0	47.3	55.2	56.8
62.5°	13574.4	7011.1	182.9	116.7	53.6	34.7	31.5	34.7	42.6	52.0	53.6
65°	15280.3	7384.7	149.8	97.7	41.0	26.8	26.8	31.5	41.0	50.5	52.0
67.5°	14329.6	6216.5	116.7	77.3	31.5	20.5	22.1	30.0	39.4	50.5	52.0
69°	12672.6	5082.9	99.3	61.5	26.8	18.9	20.5	30.0	39.4	48.9	50.5
70°	11381.4	4291.5	88.3	52.0	23.6	18.9	20.5	28.4	39.4	48.9	50.5
72.5°	7622.8	2317.6	70.9	37.8	22.1	17.3	17.3	28.4	37.8	47.3	48.9
75°	3276.2	640.1	56.8	26.8	18.9	15.8	15.8	26.8	36.3	45.7	48.9
77.5°	599.1	162.4	45.7	23.6	18.9	15.8	14.2	25.2	34.7	44.1	45.7
80°	238.1	80.4	36.3	20.5	17.3	14.2	12.6	23.6	33.1	42.6	44.1
82.5°	143.5	45.7	30.0	18.9	17.3	12.6	11.0	20.5	31.5	41.0	42.6
85°	116.7	31.5	23.6	18.9	15.8	12.6	9.5	18.9	28.4	39.4	41.0
87.5°	56.8	22.1	22.1	17.3	15.8	12.6	9.5	17.3	26.8	37.8	39.4
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)