

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: P269477

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269477
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-07-LED-E1-SL3-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 25248.6 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 295
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

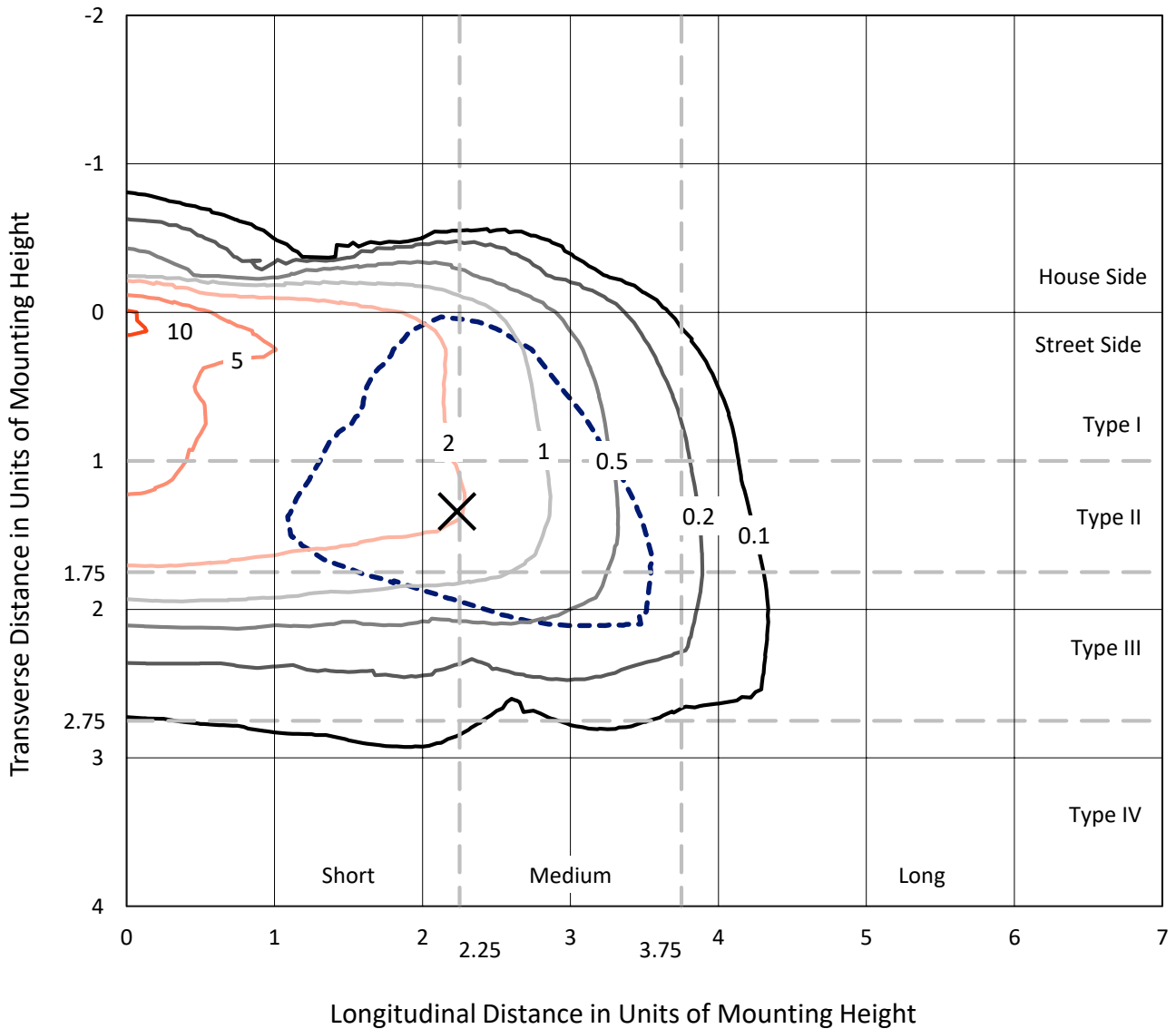


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

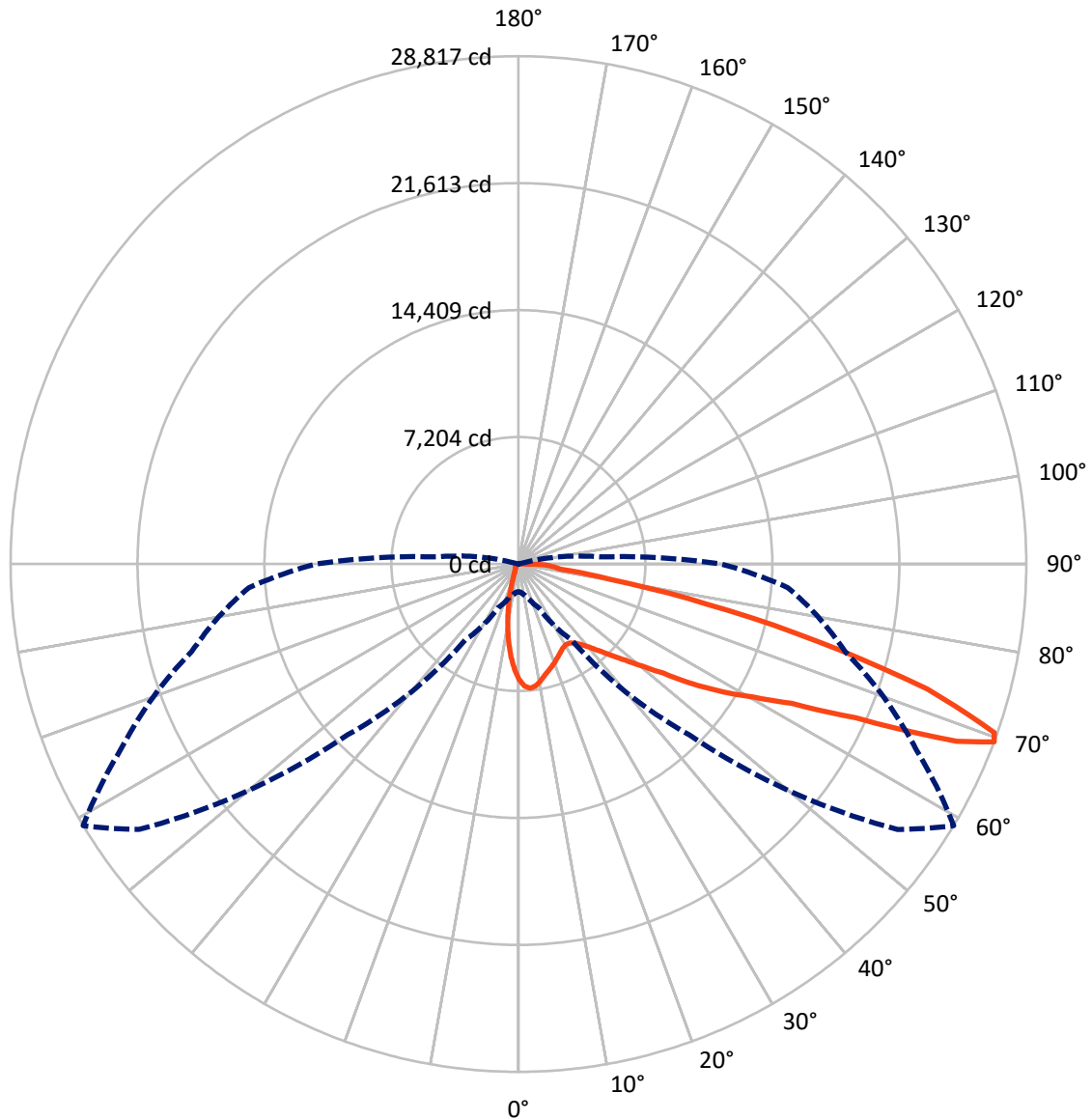


Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - Non-Cutoff

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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	2056.2	0.0	2056.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	23192.4	0.0	23192.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	25248.6	0.0	25248.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.4	2.1
10°-20°	1102.2	4.4
20°-30°	1483.2	5.9
30°-40°	2153.5	8.5
40°-50°	3585.8	14.2
50°-60°	5593.7	22.2
60°-70°	6921.8	27.4
70°-80°	3507.9	13.9
80°-90°	367.0	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°	25248.6	100.0
0°-180°	25248.6	100.0



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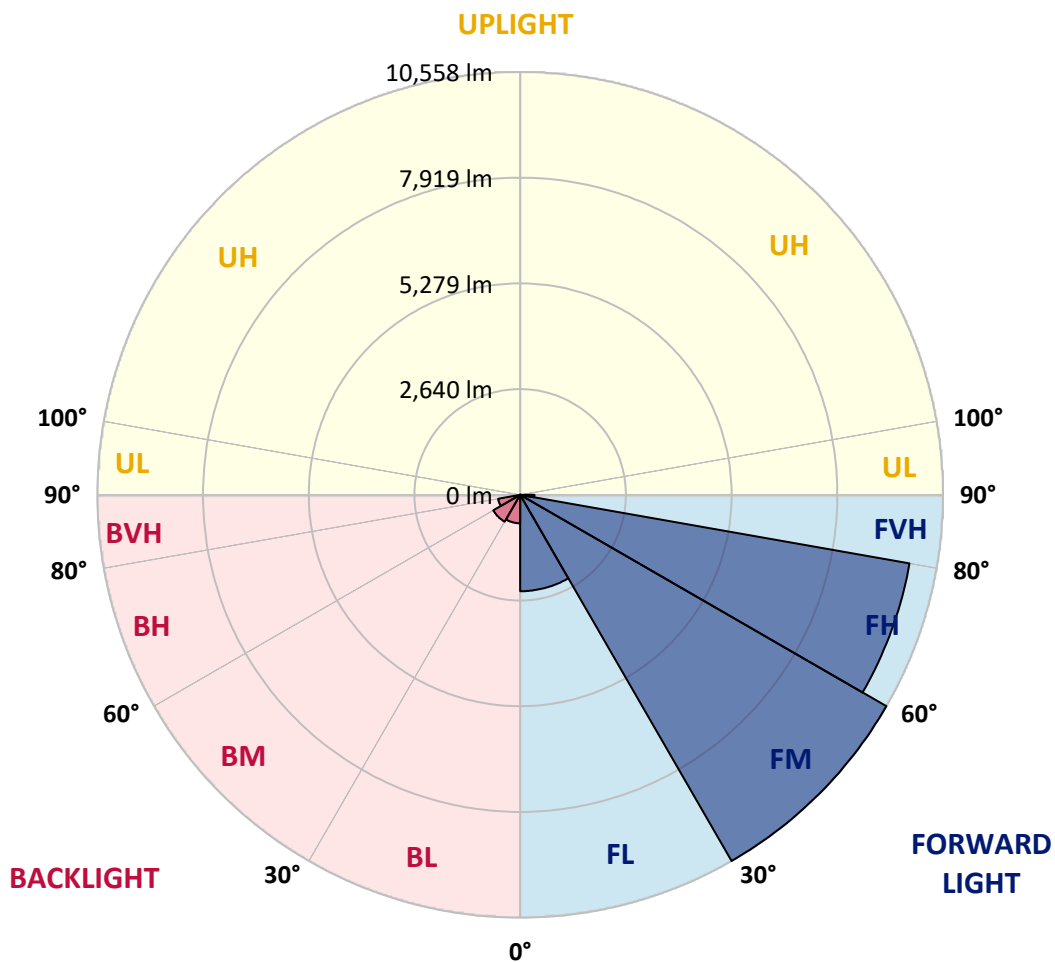
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2407.2	9.5			
FM	(30°-60°)	10558.2	41.8			
FH	(60°-80°)	9871.3	39.1			G4/12000
FVH	(80°-90°)	355.8	1.4			G3/500
BL	(0°-30°)	711.7	2.8	B2/1000		
BM	(30°-60°)	774.8	3.1	B1/1000		
BH	(60°-80°)	558.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.3	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°	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9
2.5°	7202.9	7200.1	7168.7	7154.5	7128.7	7074.4	6990.3	6946.0	6874.5	6750.4	6583.3
5°	7137.3	7171.4	7190.0	7191.6	7210.1	7190.0	7114.3	7077.2	6978.8	6778.9	6479.0
7.5°	6691.8	6704.6	6757.5	6803.1	6891.6	6975.9	7003.0	6987.3	6928.7	6714.7	6316.3
10°	6215.0	6227.8	6290.7	6350.6	6470.5	6600.4	6737.5	6766.0	6790.3	6623.3	6159.3
12.5°	5803.7	5816.5	5880.8	5959.4	6099.3	6259.2	6471.8	6519.0	6626.1	6536.2	6033.6
15°	5449.7	5455.3	5518.2	5615.2	5782.3	5987.9	6229.1	6304.8	6469.1	6474.8	5923.7
17.5°	5148.5	5162.6	5201.2	5294.0	5476.7	5730.9	6012.1	6120.7	6313.5	6423.4	5816.5
20°	4964.3	4978.4	4977.1	5028.5	5192.7	5463.9	5795.1	5925.1	6159.3	6370.6	5720.9
22.5°	4928.6	4928.6	4891.5	4884.3	4981.5	5208.4	5569.6	5728.0	6020.8	6347.8	5653.8
25°	5055.7	5049.9	4957.0	4881.4	4885.7	5021.3	5351.2	5539.6	5903.8	6363.5	5618.1
27.5°	5324.1	5316.9	5199.7	5055.7	4940.0	4938.5	5185.6	5388.3	5810.9	6437.7	5632.5
30°	5695.3	5692.4	5565.3	5384.0	5174.1	4981.5	5128.5	5312.5	5750.9	6571.9	5665.3
32.5°	6100.7	6096.4	6000.8	5809.5	5543.9	5174.1	5188.4	5342.6	5768.0	6750.4	5745.2
35°	6530.5	6523.3	6481.9	6314.8	6022.1	5529.6	5385.3	5505.4	5876.5	7017.3	5902.3
37.5°	6995.9	7003.0	7033.0	6873.1	6566.2	6027.8	5715.2	5796.7	6095.0	7379.9	6157.8
40°	7682.7	7681.1	7691.2	7481.4	7185.8	6637.5	6176.3	6202.1	6460.5	7861.1	6546.2
42.5°	8929.1	8841.9	8577.8	8149.6	7852.5	7334.3	6757.5	6730.3	6907.3	8456.5	7090.1
45°	10603.9	10418.3	9732.9	8911.9	8532.1	8119.5	7472.8	7385.7	7498.4	9171.8	7761.1
47.5°	12044.4	11851.6	10882.2	9705.7	9253.1	8864.8	8310.8	8153.7	8190.9	9972.8	8612.1
50°	12534.1	12439.9	11593.2	10396.8	9951.3	9802.8	9283.2	9091.8	9038.9	10899.3	9598.7
52.5°	12364.2	12357.1	11793.0	10845.1	10590.9	10773.7	10506.7	10285.5	10091.2	11876.0	10602.3
55°	12091.5	12127.2	11874.4	11237.6	11229.2	11660.3	12179.9	11995.8	11433.3	12936.8	11467.6
57.5°	11339.0	11491.8	11828.8	11980.2	12331.4	12772.6	13573.5	13681.9	13016.7	13749.1	12185.7
60°	9200.4	9535.9	10638.1	12087.2	13752.0	14851.3	15255.3	15348.1	14315.8	14424.4	13155.1
62.5°	6530.5	6873.1	8270.9	10722.3	13773.4	17582.5	17761.0	17396.9	15746.5	15425.2	14827.1
65°	3466.5	3730.8	4872.9	7739.7	11941.6	18216.5	22142.7	21057.7	18270.7	17394.2	16987.2
67.5°	1773.3	1853.3	2307.2	3787.8	8209.5	16180.5	26070.4	26834.3	22620.9	19347.2	16882.9
69°	1569.1	1616.2	1917.4	2738.5	5256.9	13704.8	26261.8	28817.4	24898.3	19184.5	15342.4
70°	1519.2	1560.5	1834.7	2478.6	4109.0	11493.3	25529.3	28643.3	25480.9	18564.8	14191.8
72.5°	1289.2	1324.9	1633.3	2190.2	3339.4	5705.2	20737.8	24271.5	22865.2	15465.2	10272.6
75°	862.4	979.4	1567.6	2053.0	3106.8	3240.9	13672.1	17539.8	16293.3	10430.9	5351.2
77.5°	207.0	222.7	442.5	1633.3	2841.2	2852.6	7031.7	10903.5	8893.4	3717.8	1265.0
80°	111.4	107.1	124.2	324.1	2645.6	2676.9	3165.3	5292.6	3175.2	616.7	417.0
82.5°	78.5	74.2	79.9	135.6	832.4	2438.5	2290.0	2395.7	1316.3	237.1	187.0
85°	28.6	27.0	44.2	122.8	261.2	1402.1	2352.9	1976.0	1066.5	108.5	137.0
87.5°	10.1	8.5	17.2	67.2	79.9	596.8	1452.0	1493.4	419.8	65.7	64.3
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°	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9	6571.9
2.5°	6513.3	6424.8	6262.1	6095.0	5940.9	5755.3	5662.3	5571.0	5532.5	5518.2	5451.1
5°	6324.8	6174.9	5829.5	5482.4	5162.6	4822.9	4598.8	4418.9	4313.2	4261.7	4180.4
7.5°	6083.6	5838.1	5314.1	4778.7	4280.3	3789.2	3425.1	3145.2	2952.5	2859.8	2775.6
10°	5849.5	5522.5	4777.1	4047.7	3370.9	2719.9	2217.2	1853.3	1620.5	1513.5	1444.8
12.5°	5639.6	5215.5	4259.0	3335.1	2485.7	1723.3	1212.2	922.3	778.1	728.2	703.9
15°	5452.5	4932.9	3769.2	2658.4	1683.3	985.1	662.5	564.0	541.0	541.0	538.3
17.5°	5275.4	4655.8	3296.6	2023.2	1056.5	602.6	503.9	491.2	491.2	496.9	496.9
20°	5105.5	4391.8	2839.7	1452.0	665.4	478.3	455.4	452.6	455.4	462.5	462.5
22.5°	4959.9	4151.8	2412.8	996.6	494.0	431.1	419.8	415.5	417.0	421.1	424.0
25°	4851.4	3949.0	2010.2	675.3	425.4	392.6	379.8	372.6	367.0	367.0	369.8
27.5°	4782.9	3777.8	1620.5	491.2	382.7	356.9	337.0	325.5	312.7	305.6	308.4
30°	4732.9	3615.0	1255.0	401.3	342.7	316.9	291.3	272.6	254.1	245.5	248.4
32.5°	4714.3	3483.6	938.0	354.1	307.0	278.5	247.0	222.7	202.7	195.7	197.0
35°	4764.3	3379.5	686.8	319.7	278.5	242.7	207.0	179.9	164.2	159.9	161.3
37.5°	4895.8	3323.8	514.0	291.3	252.8	212.7	172.7	147.1	137.0	137.0	138.5
40°	5144.1	3322.3	412.6	271.3	229.8	184.2	142.8	124.2	118.4	121.4	122.8
42.5°	5506.8	3398.0	359.9	252.8	209.8	157.1	118.4	105.6	104.3	107.1	108.5
45°	6002.1	3536.4	331.3	237.1	188.5	131.3	99.9	91.4	91.4	95.7	97.0
47.5°	6609.0	3739.3	307.0	221.3	167.1	110.0	85.7	79.9	81.3	85.7	87.0
50°	7340.1	3994.9	282.6	204.2	151.4	91.4	74.2	70.0	71.3	77.2	78.5
52.5°	8172.4	4339.0	262.8	188.5	131.3	75.6	62.8	59.9	62.8	68.5	70.0
55°	8886.3	4647.3	238.4	175.6	105.6	62.8	51.5	51.5	54.3	61.4	62.8
57.5°	9573.0	4970.0	217.0	151.4	82.9	49.9	42.8	44.2	48.6	55.7	57.1
60°	10581.0	5516.9	191.2	127.1	62.8	40.0	35.8	37.1	42.8	49.9	51.5
62.5°	12292.8	6349.1	165.6	105.6	48.6	31.4	28.6	31.4	38.5	47.2	48.6
65°	13837.6	6687.5	135.6	88.6	37.1	24.3	24.3	28.6	37.1	45.6	47.2
67.5°	12976.6	5629.6	105.6	70.0	28.6	18.5	20.0	27.0	35.8	45.6	47.2
69°	11476.1	4603.1	89.9	55.7	24.3	17.2	18.5	27.0	35.8	44.2	45.6
70°	10306.9	3886.2	79.9	47.2	21.4	17.2	18.5	25.7	35.8	44.2	45.6
72.5°	6903.0	2098.8	64.3	34.2	20.0	15.7	15.7	25.7	34.2	42.8	44.2
75°	2966.8	579.6	51.5	24.3	17.2	14.3	14.3	24.3	32.9	41.4	44.2
77.5°	542.5	147.1	41.4	21.4	17.2	14.3	12.8	22.8	31.4	40.0	41.4
80°	215.7	72.9	32.9	18.5	15.7	12.8	11.4	21.4	30.0	38.5	40.0
82.5°	130.0	41.4	27.0	17.2	15.7	11.4	10.1	18.5	28.6	37.1	38.5
85°	105.6	28.6	21.4	17.2	14.3	11.4	8.5	17.2	25.7	35.8	37.1
87.5°	51.5	20.0	20.0	15.7	14.3	11.4	8.5	15.7	24.3	34.2	35.8
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)