

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: P193656

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193656
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-08-LED-E1-SL3-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 21911 lumens
Efficiency: N/A
Efficacy: 85.3 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): 257
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

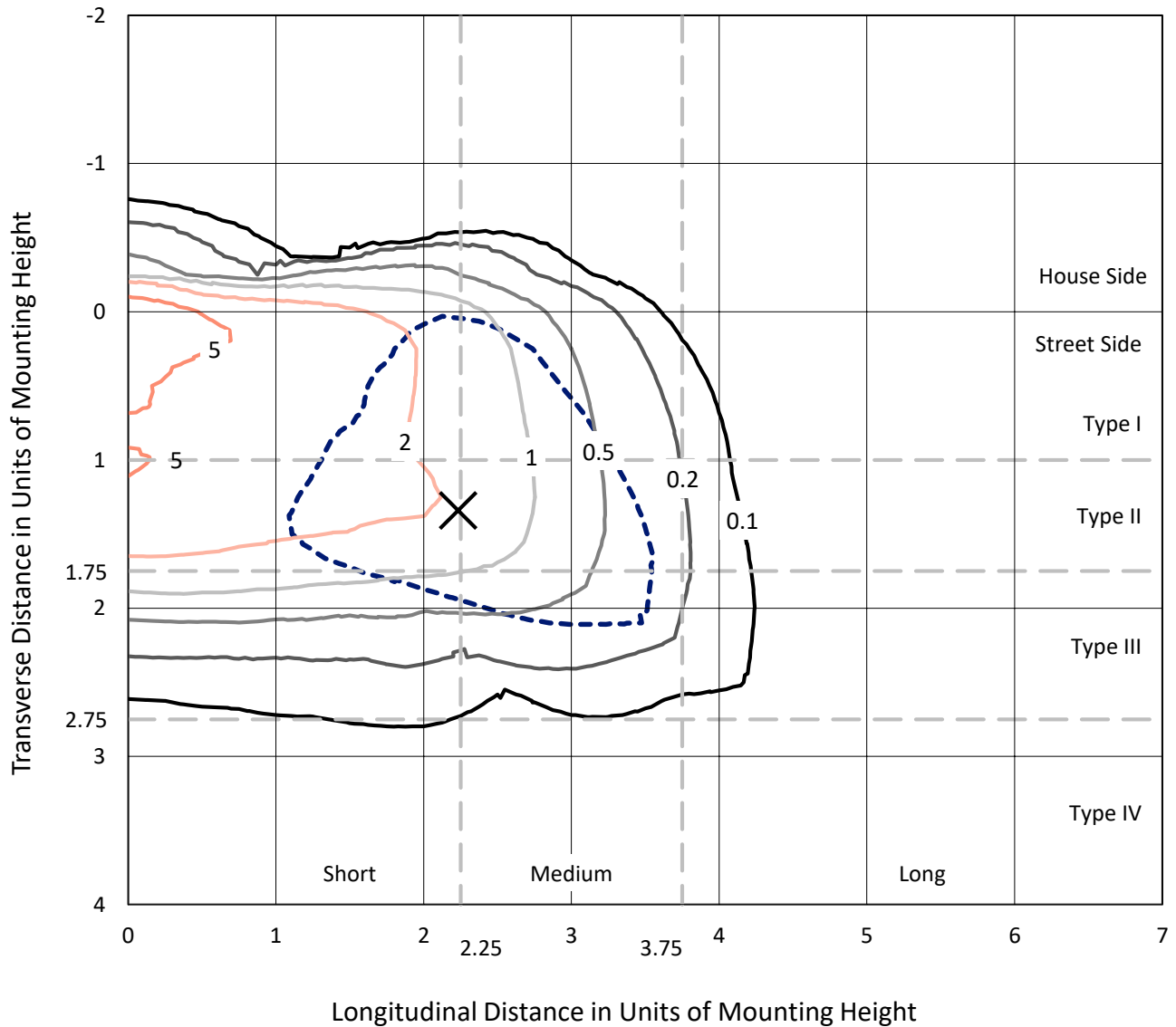


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

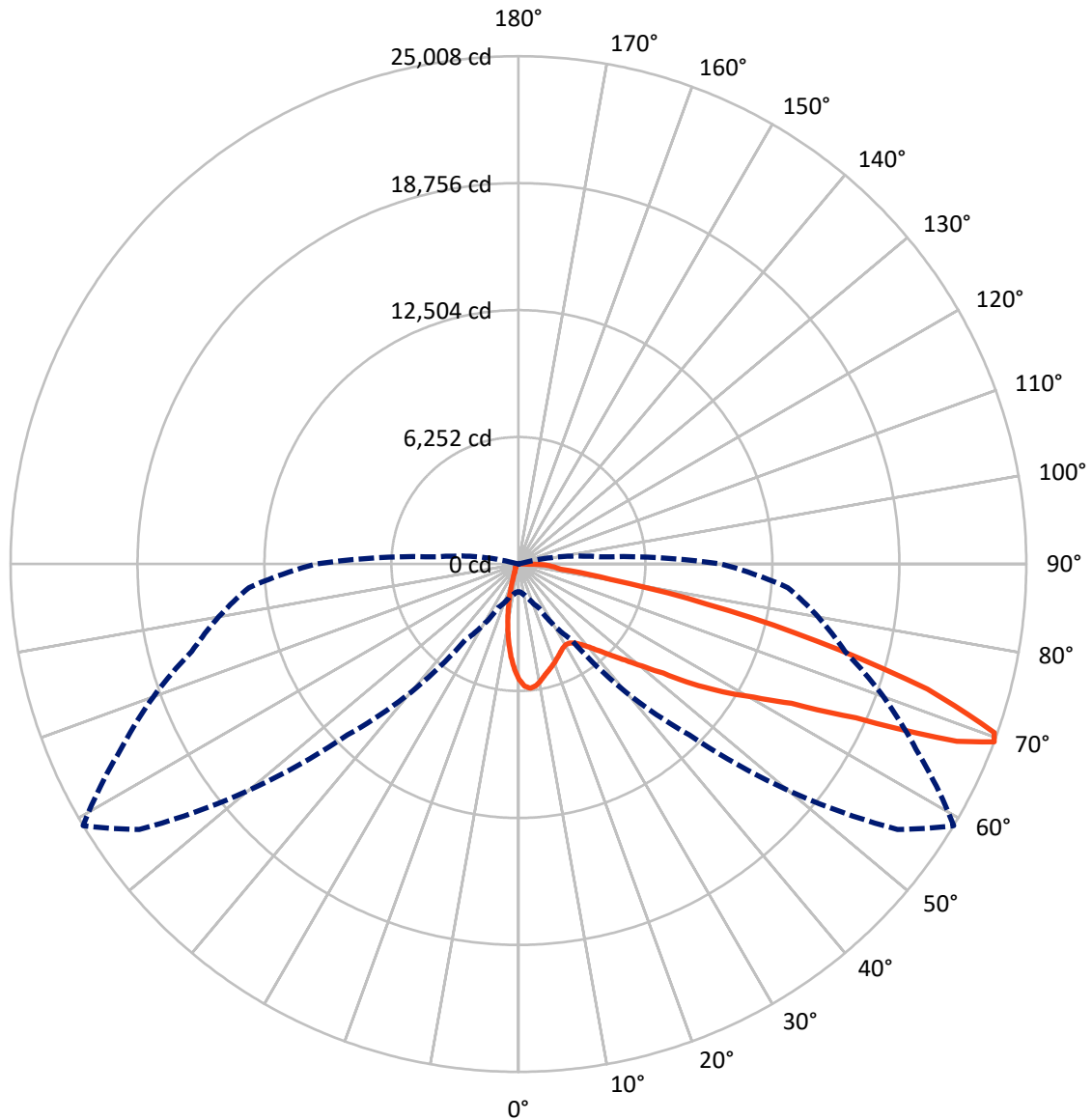


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - Non-Cutoff

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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	1784.4	0.0	1784.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	20126.6	0.0	20126.6
	% Fixture	91.9	0.0	91.9
Total	Lumens	21911.0	0.0	21911.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.9	2.1
10°-20°	956.5	4.4
20°-30°	1287.1	5.9
30°-40°	1868.8	8.5
40°-50°	3111.8	14.2
50°-60°	4854.3	22.2
60°-70°	6006.8	27.4
70°-80°	3044.2	13.9
80°-90°	318.5	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°	21911.0	100.0
0°-180°	21911.0	100.0



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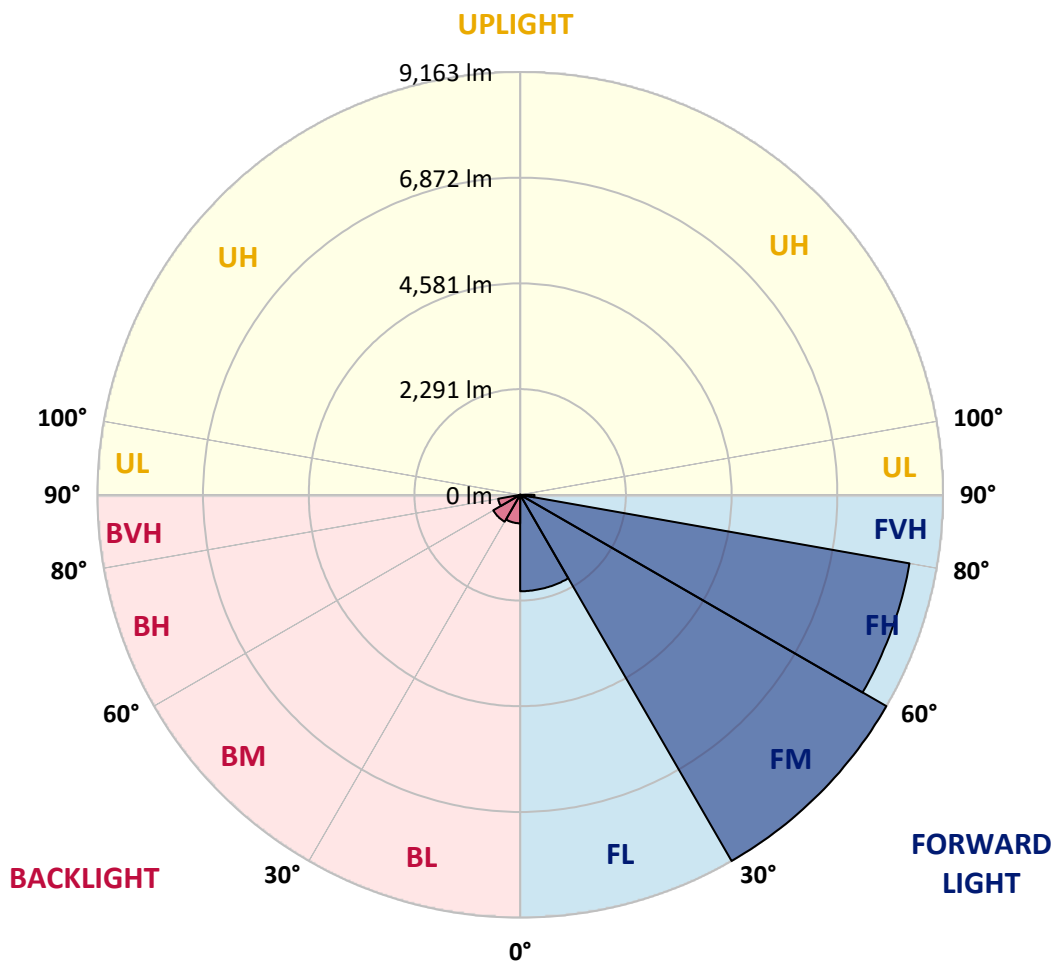
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2089.0	9.5			
FM	(30°-60°)	9162.5	41.8			
FH	(60°-80°)	8566.4	39.1			G4/12000
FVH	(80°-90°)	308.7	1.4			G3/500
BL	(0°-30°)	617.6	2.8	B2/1000		
BM	(30°-60°)	672.3	3.1	B1/1000		
BH	(60°-80°)	484.6	2.2	B1/500		G1/500
BVH	(80°-90°)	9.8	0.0			G0/10
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°	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1
2.5°	6250.8	6248.3	6221.0	6208.6	6186.3	6139.3	6066.2	6027.7	5965.8	5858.0	5713.0
5°	6193.8	6223.5	6239.6	6240.9	6257.0	6239.6	6174.0	6141.7	6056.2	5882.8	5622.6
7.5°	5807.2	5818.4	5864.2	5903.8	5980.7	6053.8	6077.3	6063.7	6012.9	5827.0	5481.3
10°	5393.4	5404.5	5459.0	5511.1	5615.2	5727.9	5846.9	5871.6	5892.7	5747.7	5345.1
12.5°	5036.5	5047.7	5103.5	5171.6	5293.0	5431.8	5616.4	5657.3	5750.2	5672.2	5236.0
15°	4729.3	4734.2	4788.7	4873.0	5018.0	5196.4	5405.8	5471.4	5613.9	5618.9	5140.6
17.5°	4467.8	4480.2	4513.7	4594.2	4752.8	4973.4	5217.4	5311.6	5478.9	5574.3	5047.7
20°	4308.0	4320.4	4319.2	4363.8	4506.3	4741.7	5029.1	5141.9	5345.1	5528.4	4964.7
22.5°	4277.0	4277.0	4244.8	4238.6	4322.9	4519.9	4833.4	4970.9	5224.9	5508.6	4906.5
25°	4387.3	4382.4	4301.8	4236.2	4239.9	4357.6	4643.8	4807.3	5123.3	5522.2	4875.5
27.5°	4620.2	4614.0	4512.4	4387.3	4287.0	4285.7	4500.1	4676.0	5042.7	5586.7	4887.9
30°	4942.4	4939.9	4829.6	4672.3	4490.1	4322.9	4450.5	4610.3	4990.7	5703.1	4916.4
32.5°	5294.3	5290.5	5207.5	5041.5	4811.0	4490.1	4502.5	4636.3	5005.6	5858.0	4985.7
35°	5667.2	5661.0	5625.1	5480.1	5226.1	4798.7	4673.5	4777.6	5099.7	6089.7	5122.0
37.5°	6071.1	6077.3	6103.3	5964.6	5698.2	5231.1	4959.7	5030.4	5289.3	6404.4	5343.8
40°	6667.1	6665.8	6674.5	6492.4	6235.9	5760.1	5359.9	5382.2	5606.5	6821.9	5680.8
42.5°	7748.7	7673.1	7443.9	7072.2	6814.5	6364.8	5864.2	5840.7	5994.3	7338.6	6152.9
45°	9202.1	9041.0	8446.3	7733.9	7404.3	7046.2	6484.9	6409.4	6507.2	7959.4	6735.2
47.5°	10452.2	10285.0	9443.7	8422.7	8030.0	7693.0	7212.2	7075.9	7108.2	8654.4	7473.7
50°	10877.2	10795.4	10060.7	9022.4	8635.9	8507.0	8056.0	7890.0	7844.1	9458.5	8329.8
52.5°	10729.8	10723.6	10234.2	9411.5	9190.9	9349.5	9117.8	8925.8	8757.3	10306.0	9200.8
55°	10493.1	10524.1	10304.8	9752.2	9744.8	10118.9	10569.9	10410.1	9921.9	11226.6	9951.7
57.5°	9840.2	9972.7	10265.1	10396.5	10701.3	11084.1	11779.2	11873.4	11296.0	11931.6	10574.9
60°	7984.1	8275.3	9231.8	10489.4	11934.1	12888.1	13238.7	13319.3	12423.5	12517.6	11416.2
62.5°	5667.2	5964.6	7177.5	9304.9	11952.7	15258.3	15413.2	15097.3	13665.0	13386.2	12867.0
65°	3008.3	3237.5	4228.7	6716.6	10363.0	15808.4	19215.7	18274.1	15855.5	15094.8	14741.7
67.5°	1538.8	1608.2	2002.2	3287.1	7124.3	14041.6	22624.2	23287.1	19630.8	16789.7	14651.2
69°	1361.7	1402.6	1664.0	2376.4	4562.0	11893.2	22790.2	25008.0	21607.0	16648.5	13314.3
70°	1318.3	1354.2	1592.1	2150.9	3565.9	9974.0	22154.6	24856.9	22112.5	16110.8	12315.7
72.5°	1118.8	1149.8	1417.4	1900.6	2898.0	4951.1	17996.5	21063.0	19842.6	13420.9	8914.6
75°	748.4	850.0	1360.4	1781.7	2696.1	2812.5	11864.7	15221.2	14139.5	9052.2	4643.8
77.5°	179.7	193.3	384.1	1417.4	2465.6	2475.5	6102.1	9462.3	7717.7	3226.4	1097.8
80°	96.6	92.9	107.8	281.3	2295.9	2323.1	2746.9	4593.0	2755.5	535.2	361.8
82.5°	68.1	64.4	69.4	117.7	722.3	2116.2	1987.4	2079.0	1142.4	205.7	162.3
85°	24.8	23.5	38.4	106.6	226.7	1216.7	2041.9	1714.8	925.5	94.2	118.9
87.5°	8.7	7.4	14.9	58.2	69.4	517.9	1260.1	1296.0	364.3	57.0	55.8
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°	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1	5703.1
2.5°	5652.3	5575.5	5434.3	5289.3	5155.5	4994.4	4913.9	4834.6	4801.1	4788.7	4730.5
5°	5488.8	5358.7	5058.8	4757.8	4480.2	4185.4	3990.8	3834.7	3743.0	3698.4	3627.8
7.5°	5279.4	5066.3	4611.6	4146.9	3714.5	3288.3	2972.4	2729.5	2562.3	2481.7	2408.6
10°	5076.2	4792.5	4145.7	3512.6	2925.3	2360.3	1924.2	1608.2	1406.3	1313.3	1253.9
12.5°	4894.1	4526.1	3695.9	2894.3	2157.1	1495.5	1051.9	800.4	675.3	631.9	610.8
15°	4731.8	4280.8	3271.0	2307.0	1460.8	854.9	574.9	489.4	469.6	469.6	467.1
17.5°	4578.1	4040.4	2860.9	1755.7	916.9	522.9	437.4	426.2	426.2	431.2	431.2
20°	4430.7	3811.2	2464.4	1260.1	577.4	415.1	395.2	392.8	395.2	401.4	401.4
22.5°	4304.3	3603.0	2093.9	864.8	428.7	374.2	364.3	360.5	361.8	365.5	368.0
25°	4210.1	3427.1	1744.5	586.0	369.2	340.7	329.6	323.4	318.4	318.4	320.9
27.5°	4150.7	3278.4	1406.3	426.2	332.1	309.8	292.4	282.5	271.3	265.1	267.6
30°	4107.3	3137.2	1089.1	348.2	297.4	275.1	252.8	236.6	220.5	213.1	215.6
32.5°	4091.2	3023.2	814.0	307.3	266.4	241.6	214.3	193.3	175.9	169.7	171.0
35°	4134.6	2932.7	596.0	277.5	241.6	210.6	179.7	156.1	142.5	138.8	140.0
37.5°	4248.5	2884.4	446.0	252.8	219.3	184.6	149.9	127.6	118.9	118.9	120.2
40°	4464.1	2883.2	358.1	235.4	199.5	159.8	123.9	107.8	102.8	105.3	106.6
42.5°	4778.8	2948.8	312.2	219.3	182.1	136.3	102.8	91.7	90.4	92.9	94.2
45°	5208.8	3069.0	287.4	205.7	163.5	114.0	86.7	79.3	79.3	83.0	84.3
47.5°	5735.3	3244.9	266.4	192.0	145.0	95.4	74.3	69.4	70.6	74.3	75.6
50°	6369.7	3466.7	245.3	177.2	131.3	79.3	64.4	60.7	62.0	66.9	68.1
52.5°	7092.1	3765.3	228.0	163.5	114.0	65.7	54.5	52.0	54.5	59.5	60.7
55°	7711.6	4033.0	206.9	152.4	91.7	54.5	44.6	44.6	47.1	53.3	54.5
57.5°	8307.5	4313.0	188.3	131.3	71.9	43.4	37.2	38.4	42.1	48.3	49.6
60°	9182.3	4787.5	166.0	110.3	54.5	34.7	31.0	32.2	37.2	43.4	44.6
62.5°	10667.8	5509.8	143.7	91.7	42.1	27.3	24.8	27.3	33.5	40.9	42.1
65°	12008.4	5803.5	117.7	76.8	32.2	21.1	21.1	24.8	32.2	39.6	40.9
67.5°	11261.3	4885.4	91.7	60.7	24.8	16.1	17.3	23.5	31.0	39.6	40.9
69°	9959.1	3994.5	78.1	48.3	21.1	14.9	16.1	23.5	31.0	38.4	39.6
70°	8944.4	3372.6	69.4	40.9	18.6	14.9	16.1	22.3	31.0	38.4	39.6
72.5°	5990.6	1821.3	55.8	29.7	17.3	13.6	13.6	22.3	29.7	37.2	38.4
75°	2574.6	503.0	44.6	21.1	14.9	12.4	12.4	21.1	28.5	35.9	38.4
77.5°	470.8	127.6	35.9	18.6	14.9	12.4	11.2	19.8	27.3	34.7	35.9
80°	187.1	63.2	28.5	16.1	13.6	11.2	9.9	18.6	26.0	33.5	34.7
82.5°	112.7	35.9	23.5	14.9	13.6	9.9	8.7	16.1	24.8	32.2	33.5
85°	91.7	24.8	18.6	14.9	12.4	9.9	7.4	14.9	22.3	31.0	32.2
87.5°	44.6	17.3	17.3	13.6	12.4	9.9	7.4	13.6	21.1	29.7	31.0
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)