

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: P269564

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31819.6 lumens
Efficiency: N/A
Efficacy: 95.3 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): 334
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

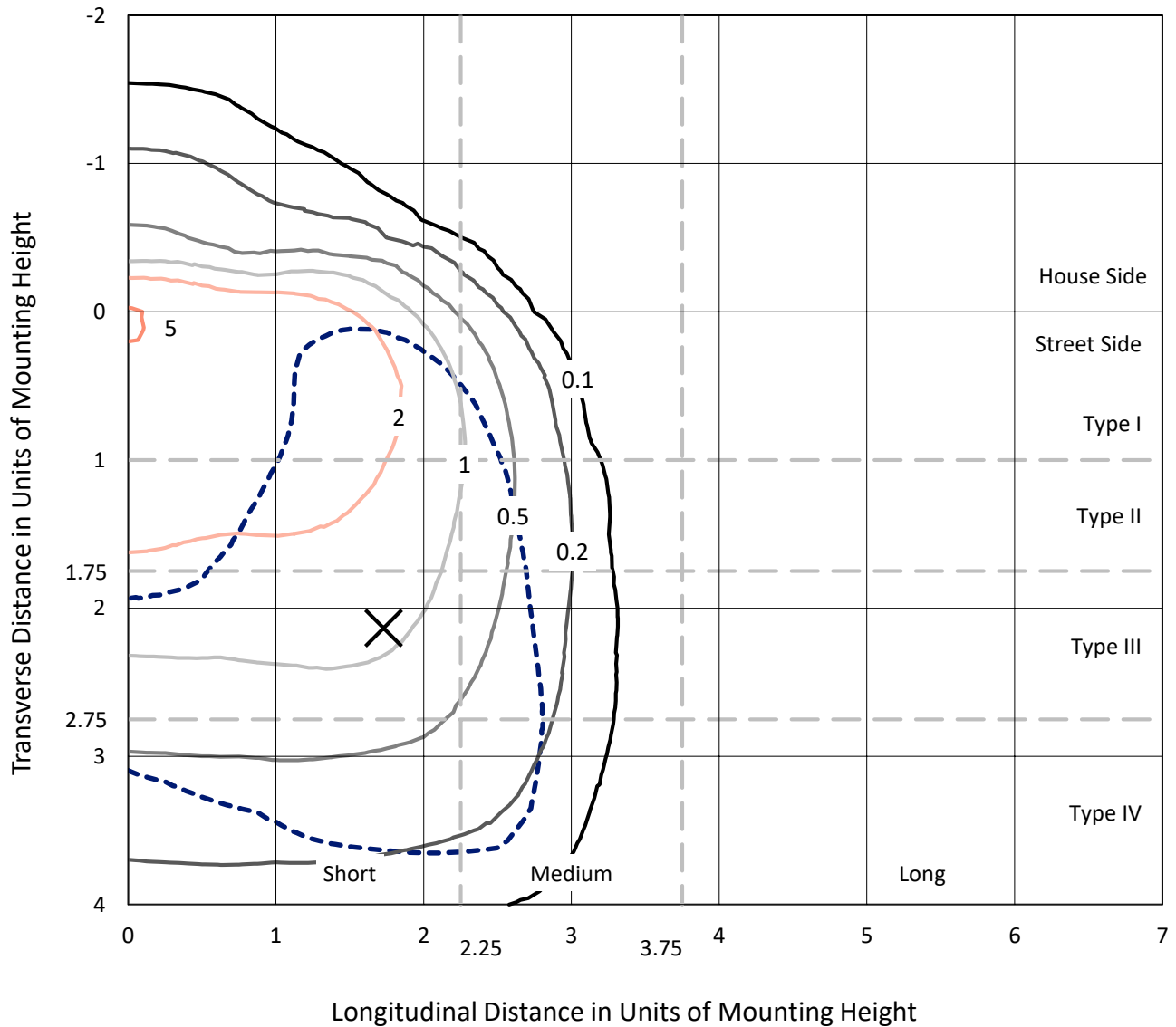


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Iso-Footcandle Lines of Horizontal Illumination

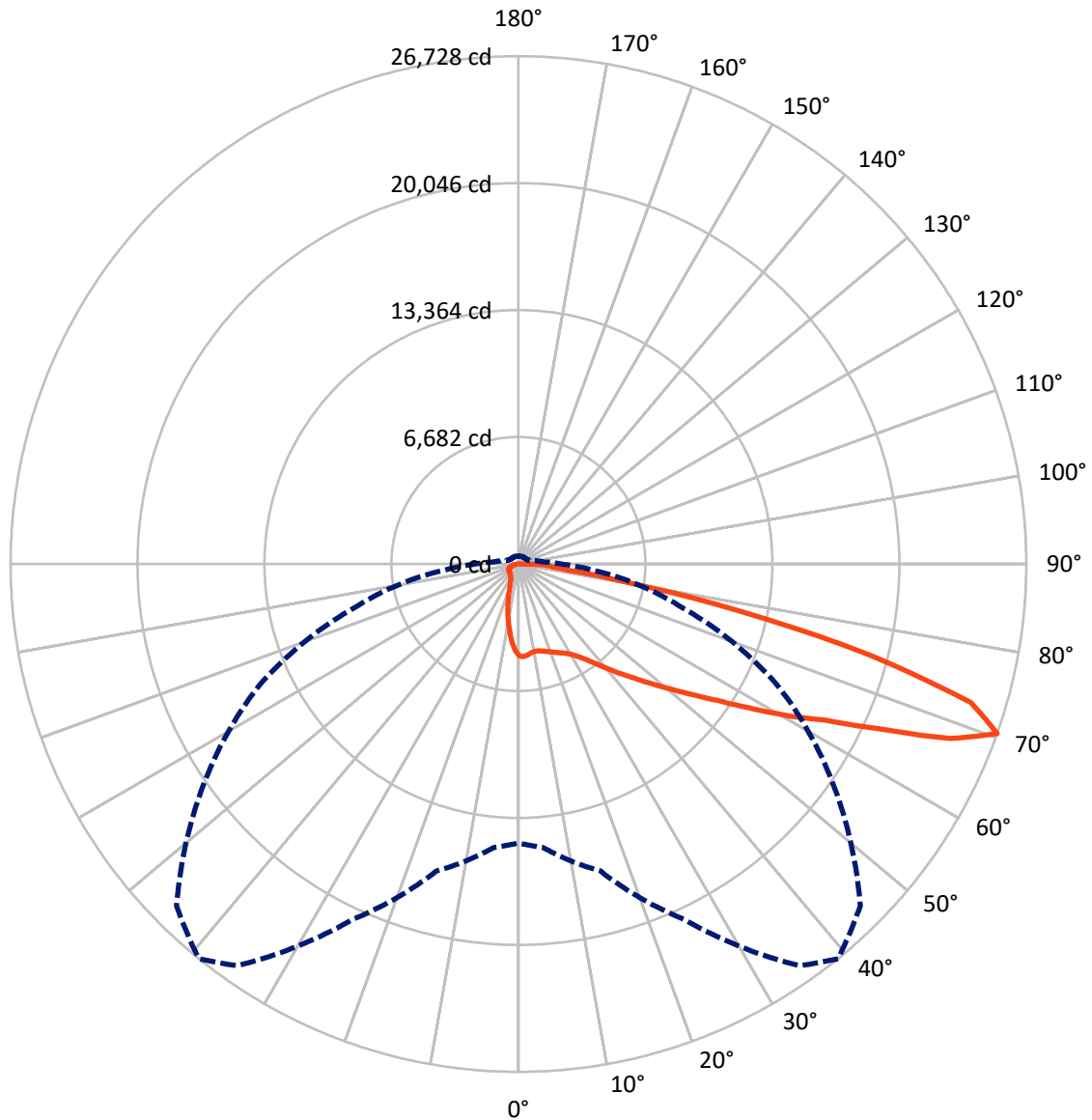
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3619.0	0.0	3619.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	28200.7	0.0	28200.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	31819.6	0.0	31819.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.6	1.3
10°-20°	1036.3	3.3
20°-30°	1613.5	5.1
30°-40°	2513.5	7.9
40°-50°	4219.8	13.3
50°-60°	6703.5	21.1
60°-70°	8941.6	28.1
70°-80°	5399.6	17.0
80°-90°	977.3	3.1
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°	31819.6	100.0
0°-180°	31819.6	100.0



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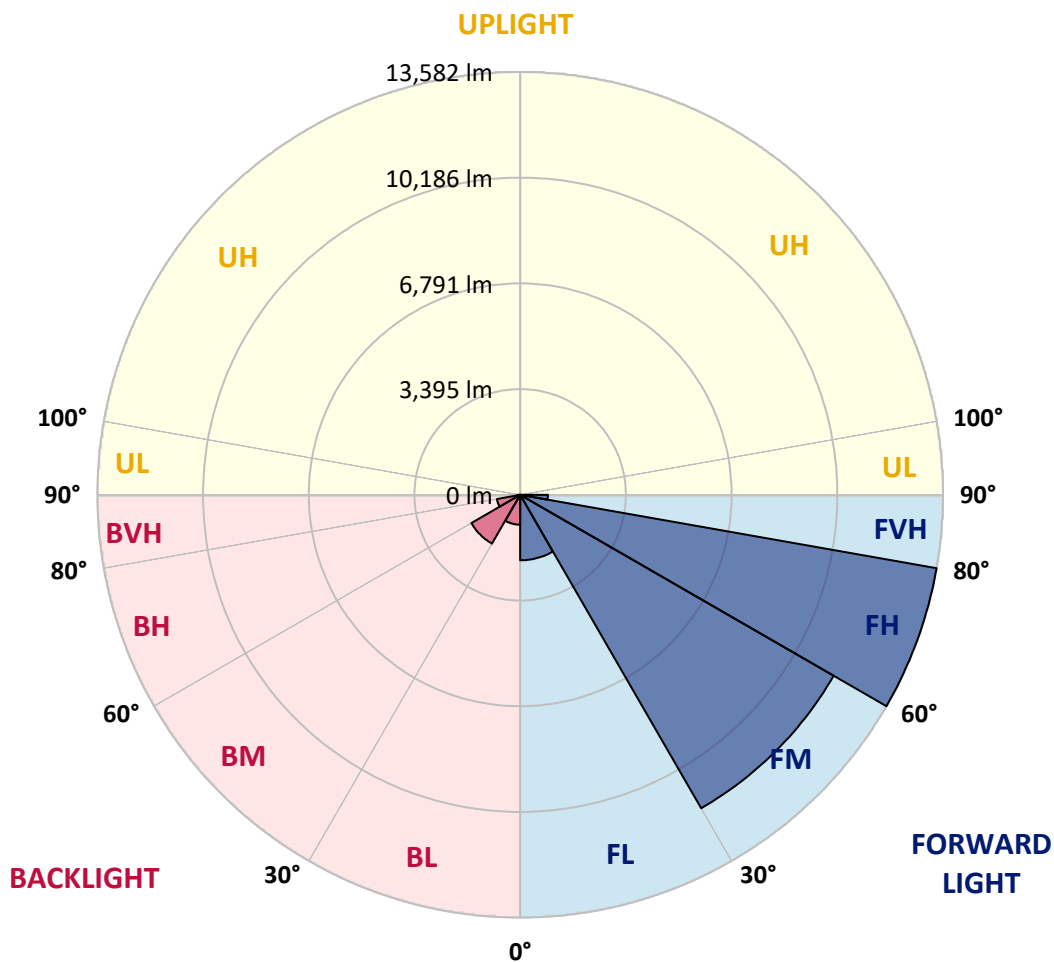
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2104.3	6.6			
FM	(30°-60°)	11625.7	36.5			
FH	(60°-80°)	13581.5	42.7			G5
FVH	(80°-90°)	889.2	2.8			G5
BL	(0°-30°)	960.0	3.0	B2/1000		
BM	(30°-60°)	1811.1	5.7	B2/2500		
BH	(60°-80°)	759.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	88.1	0.3			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°	39°	45°	55°	65°	75°	85°
0°	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7
2.5°	4924.6	4922.9	4910.0	4900.3	4892.2	4888.9	4895.5	4871.1	4850.0	4824.3	4796.7
5°	4887.3	4885.7	4864.7	4845.3	4825.9	4819.3	4817.8	4774.1	4748.3	4709.4	4657.6
7.5°	4846.9	4838.8	4811.3	4779.0	4744.9	4728.8	4712.6	4655.9	4626.9	4588.1	4528.1
10°	4804.9	4795.2	4769.2	4736.9	4704.6	4680.3	4652.7	4597.7	4567.1	4537.9	4468.3
12.5°	4761.1	4753.0	4746.6	4732.0	4709.4	4688.3	4667.4	4620.4	4588.1	4554.0	4473.2
15°	4754.6	4751.4	4766.0	4775.7	4762.8	4749.8	4727.2	4686.7	4652.7	4618.7	4513.7
17.5°	4806.4	4804.9	4842.0	4867.9	4861.4	4838.8	4808.1	4762.8	4735.2	4706.1	4575.1
20°	4919.7	4927.8	4973.0	5007.1	4974.8	4942.4	4892.2	4829.1	4814.6	4801.6	4638.2
22.5°	5133.3	5141.3	5173.7	5186.6	5102.6	5055.7	4986.0	4905.1	4895.5	4905.1	4714.2
25°	5466.5	5458.5	5453.6	5405.0	5251.3	5178.5	5089.5	5005.4	5010.2	5054.0	4821.1
27.5°	5908.2	5864.4	5796.6	5651.0	5406.7	5325.7	5217.4	5139.7	5170.5	5254.5	4981.2
30°	6366.0	6317.5	6160.5	5922.7	5610.5	5521.5	5400.3	5312.8	5393.8	5526.4	5194.7
32.5°	6789.8	6783.5	6553.7	6247.9	5892.1	5814.3	5693.0	5594.4	5725.3	5927.6	5515.1
35°	7252.6	7267.1	6992.0	6624.8	6272.1	6191.3	6104.0	6029.6	6204.2	6482.4	5979.4
37.5°	7747.6	7776.6	7451.5	7037.4	6705.8	6671.7	6620.0	6587.6	6857.8	7242.9	6628.1
40°	8409.3	8380.2	7928.8	7503.4	7238.0	7236.3	7220.1	7259.1	7708.7	8236.2	7461.2
42.5°	9117.8	9032.1	8435.2	8003.2	7822.0	7877.0	7909.3	8067.9	8732.9	9443.1	8477.2
45°	9881.4	9688.8	8961.0	8532.2	8470.7	8587.2	8697.2	9041.8	9938.0	10816.5	9590.2
47.5°	10491.3	10305.3	9504.4	9087.2	9221.5	9397.7	9609.7	10154.9	11287.4	12235.4	10688.8
50°	10971.8	10850.4	10052.9	9734.3	10048.1	10319.9	10666.0	11415.1	12691.6	13616.9	11706.4
52.5°	11437.8	11347.2	10606.2	10397.5	11018.8	11394.1	11864.9	12767.6	14131.3	14975.9	12562.1
55°	11858.3	11793.7	11201.5	11224.2	12161.0	12649.5	13241.6	14307.8	15700.7	16187.5	13286.9
57.5°	12332.4	12249.8	11881.1	12261.2	13628.2	14262.4	15032.4	16038.8	17172.8	17265.1	13838.6
60°	12809.7	12738.4	12634.9	13458.3	15491.9	16158.4	16888.0	17716.5	18666.1	18101.4	13806.2
62.5°	13223.8	13231.9	13414.7	14715.3	17316.7	18088.5	18978.2	19796.8	20016.9	18247.0	12785.3
65°	13926.0	14053.8	14599.0	16494.9	19885.8	20918.0	22010.0	21878.9	20390.5	16886.5	10596.4
67.5°	14760.7	14985.5	16090.5	18866.7	23132.8	24503.0	24925.2	22349.7	18894.1	13726.9	7553.5
70°	14676.6	14985.5	16734.3	20634.8	25808.6	26727.5	25446.2	20227.1	15003.3	8967.4	4012.1
72.5°	13032.9	13474.5	15422.5	19824.3	24965.7	24884.8	22090.8	15079.4	8914.1	3601.1	1567.6
75°	9933.2	10379.7	12055.8	15661.8	19732.2	19052.7	15674.7	8330.1	3382.7	1430.1	988.5
77.5°	5713.9	6060.2	7354.5	9604.8	12518.4	11821.2	8724.7	3704.7	1647.0	996.6	771.6
80°	3190.3	3382.7	4169.0	4872.8	6134.6	5623.4	3903.8	2302.0	1229.5	723.1	595.3
82.5°	2522.1	2693.6	3371.5	3073.8	2802.1	2585.2	2242.3	2049.8	981.9	456.2	355.9
85°	2203.5	2366.9	2853.7	2420.3	1913.8	1755.3	1821.7	2017.4	763.6	275.1	304.2
87.5°	2041.7	2260.0	2543.1	1865.3	1490.0	1320.1	1680.9	2211.4	245.9	171.4	123.0
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°	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7	4830.7
2.5°	4772.4	4746.6	4704.6	4667.4	4609.1	4578.3	4544.3	4520.1	4500.7	4484.5	4510.4
5°	4625.3	4576.8	4487.8	4392.4	4279.0	4190.1	4115.7	4046.1	3997.5	3965.2	3987.8
7.5°	4486.1	4406.8	4267.7	4094.7	3900.5	3735.5	3599.6	3479.9	3397.4	3344.0	3365.1
10°	4406.8	4308.2	4092.9	3821.2	3534.9	3277.6	3064.1	2879.6	2751.9	2679.0	2690.3
12.5°	4387.4	4259.7	3962.0	3588.3	3196.8	2839.3	2538.3	2282.8	2103.1	2009.2	2012.6
15°	4402.1	4238.7	3838.9	3365.1	2869.9	2418.5	2043.3	1732.7	1524.0	1417.2	1415.5
17.5°	4426.3	4222.5	3709.6	3123.9	2538.3	2014.1	1595.1	1291.0	1106.5	1020.8	1014.4
20°	4452.2	4196.5	3563.9	2863.4	2193.8	1638.8	1249.0	1011.1	894.6	847.7	844.4
22.5°	4489.4	4173.9	3413.5	2588.5	1855.5	1334.7	1027.3	867.1	805.7	781.3	778.1
25°	4549.2	4162.6	3253.4	2302.0	1551.5	1116.2	894.6	796.0	760.3	744.2	742.5
27.5°	4649.4	4178.7	3102.9	2023.8	1303.9	969.0	820.2	760.3	734.5	719.9	718.4
30°	4779.0	4229.0	2944.4	1760.1	1111.5	868.8	774.9	736.2	715.1	700.5	700.5
32.5°	4994.0	4313.0	2777.7	1532.1	973.9	799.2	740.9	715.1	697.3	685.9	684.2
35°	5311.1	4471.6	2622.4	1342.7	875.2	749.0	711.8	692.5	679.5	673.0	673.0
37.5°	5772.2	4722.3	2484.9	1206.9	815.3	715.1	684.2	669.7	661.7	661.7	661.7
40°	6391.9	5068.5	2373.3	1116.2	781.3	690.7	663.3	652.0	647.0	648.8	648.8
42.5°	7157.1	5518.3	2298.9	1053.3	765.3	676.2	648.8	639.1	634.2	632.5	634.2
45°	8029.1	6029.6	2290.8	1006.2	749.0	666.5	639.1	629.4	619.7	613.2	613.2
47.5°	8876.8	6548.9	2357.2	990.1	731.2	655.3	630.9	621.3	606.6	592.2	592.2
50°	9625.9	6990.5	2446.1	996.6	724.8	639.1	618.0	613.2	590.5	574.3	572.7
52.5°	10221.2	7330.2	2518.8	1016.0	731.2	627.6	601.9	603.4	579.1	561.4	559.7
55°	10698.5	7553.5	2499.4	1035.3	745.9	621.3	587.2	590.5	571.1	553.3	553.3
57.5°	10907.1	7470.9	2284.3	1019.1	757.1	622.9	576.0	588.8	572.7	556.5	556.5
60°	10459.0	6738.0	1881.5	948.0	742.5	618.0	571.1	595.3	593.7	577.5	576.0
62.5°	9103.2	5426.0	1459.2	842.9	692.5	593.7	558.1	593.7	611.6	606.6	605.1
65°	7016.3	3864.9	1114.6	729.7	624.4	553.3	524.3	556.5	580.8	587.2	585.6
67.5°	4554.0	2368.4	859.0	622.9	548.4	506.4	480.5	495.1	499.8	499.8	496.7
70°	2239.0	1274.9	684.2	524.3	470.8	456.2	441.6	433.5	425.4	419.0	419.0
72.5°	1104.9	833.2	563.0	443.3	406.0	399.6	396.3	386.6	380.3	372.1	368.8
75°	817.0	677.9	478.8	373.8	349.4	343.0	349.4	341.4	339.6	333.4	330.0
77.5°	671.4	577.5	412.5	320.3	299.2	287.9	297.7	299.2	300.9	291.2	287.9
80°	545.2	488.6	344.6	265.3	245.9	237.8	244.2	257.3	260.5	245.9	239.5
82.5°	393.1	399.6	278.3	207.1	190.9	184.4	197.4	213.5	216.9	195.7	190.9
85°	330.0	333.4	213.5	147.2	131.1	121.4	142.4	158.6	169.9	148.8	144.0
87.5°	137.5	195.7	123.0	82.6	72.9	63.2	76.0	84.1	101.9	93.9	92.3
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)