

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: P191075

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27798.7 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

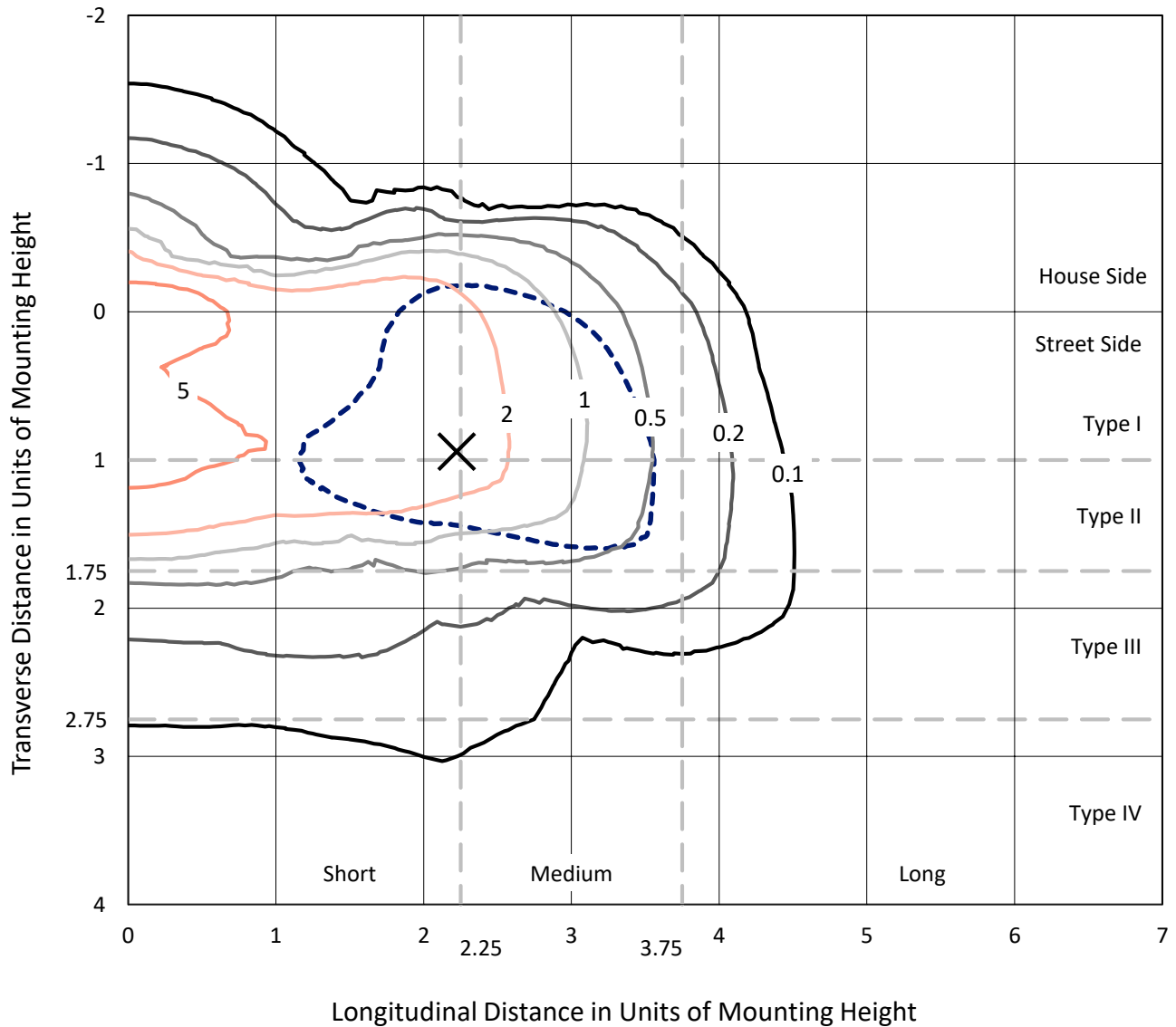
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

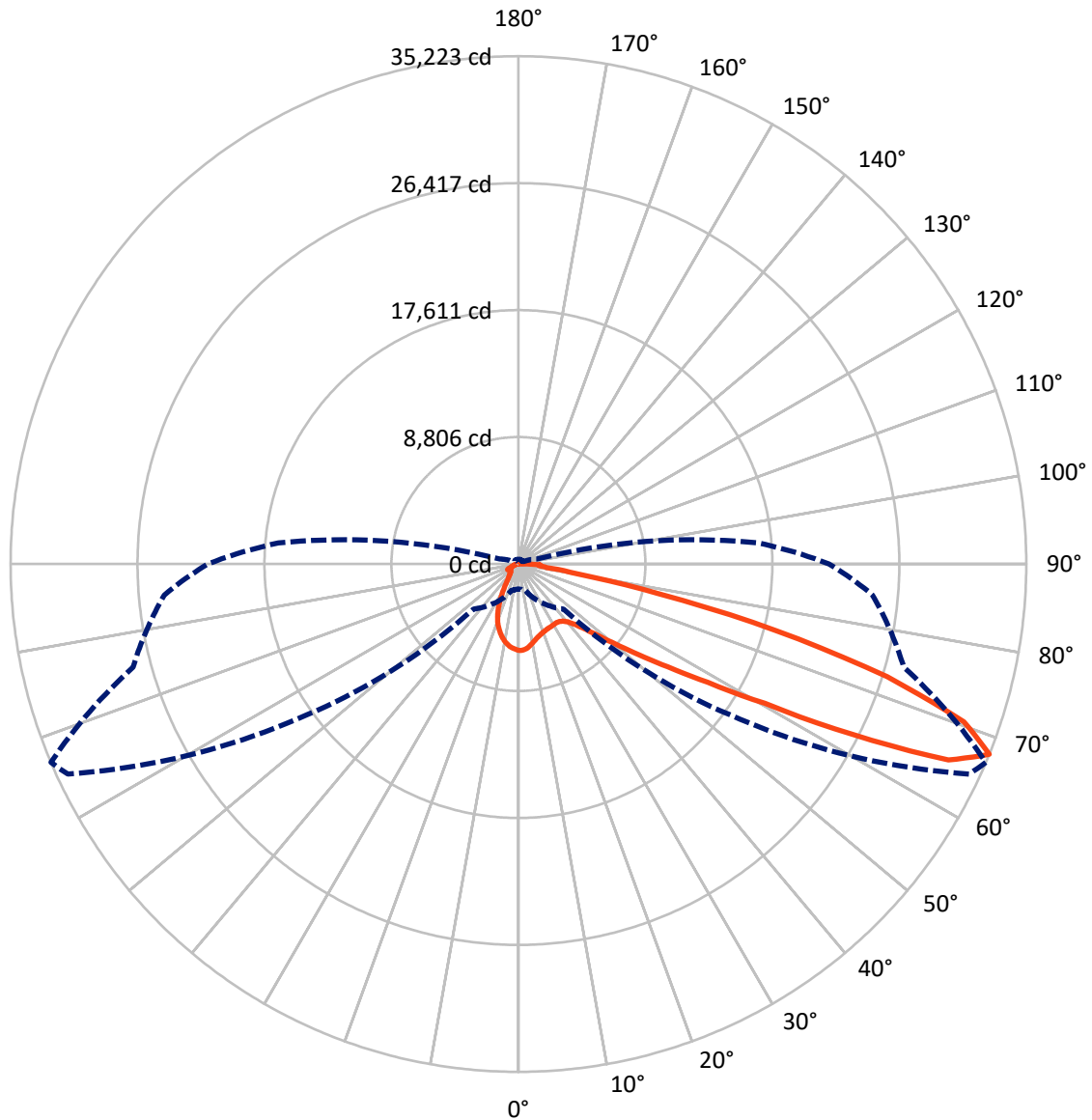
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4605.9	0.0	4605.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	23192.8	0.0	23192.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	27798.7	0.0	27798.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.6	1.8
10°-20°	1183.7	4.3
20°-30°	1604.5	5.8
30°-40°	2280.9	8.2
40°-50°	3816.1	13.7
50°-60°	6037.0	21.7
60°-70°	7690.6	27.7
70°-80°	4028.3	14.5
80°-90°	646.1	2.3
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°	27798.7	100.0
0°-180°	27798.7	100.0



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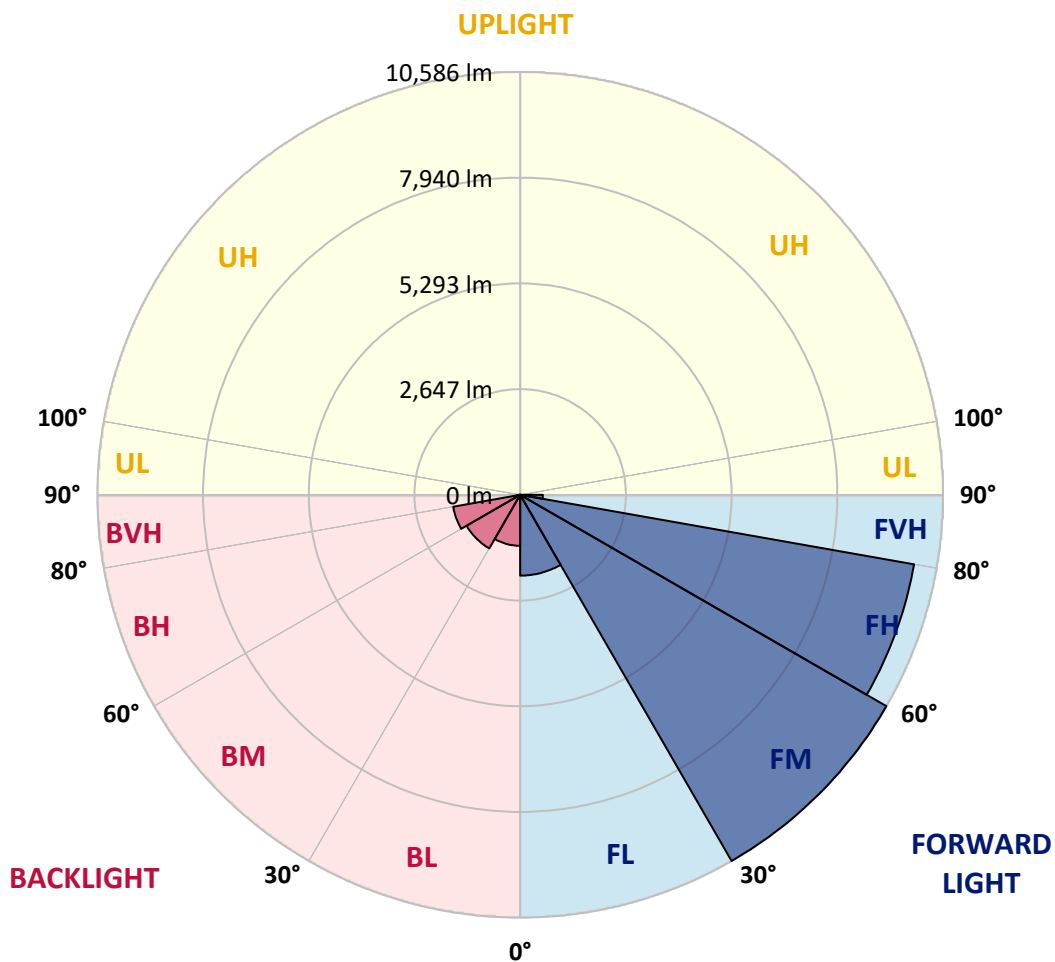
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2023.1	7.3			
FM	(30°-60°)	10586.3	38.1			
FH	(60°-80°)	10015.3	36.0			G4/12000
FVH	(80°-90°)	568.1	2.0			G4/750
BL	(0°-30°)	1276.6	4.6	B3/2500		
BM	(30°-60°)	1547.7	5.6	B2/2500		
BH	(60°-80°)	1703.6	6.1	B3/2500		G3/2500
BVH	(80°-90°)	78.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1
2.5°	5749.4	5758.9	5789.1	5808.3	5894.7	5931.7	5957.8	5983.8	5987.8	6000.2	5987.8
5°	5146.2	5166.7	5223.0	5286.0	5453.2	5584.9	5723.3	5867.2	5893.3	5986.5	6012.6
7.5°	4678.7	4673.2	4719.9	4795.3	4966.6	5148.9	5391.6	5678.1	5734.3	5944.1	6045.4
10°	4337.4	4333.2	4382.6	4460.8	4623.8	4796.6	5070.8	5462.9	5542.3	5876.9	6076.9
12.5°	4085.2	4086.5	4135.9	4222.2	4388.0	4562.2	4840.5	5254.5	5356.0	5798.7	6109.9
15°	3917.9	3928.8	3968.6	4060.5	4222.2	4396.3	4669.2	5098.2	5211.9	5737.0	6146.9
17.5°	3861.7	3879.5	3893.2	3960.4	4098.9	4273.0	4540.3	4983.0	5103.7	5694.6	6179.9
20°	3913.8	3934.4	3908.3	3931.6	4019.4	4172.9	4438.8	4892.6	5015.9	5646.6	6183.9
22.5°	4137.2	4156.5	4079.6	4012.5	4007.0	4100.2	4355.2	4821.3	4948.7	5610.9	6185.3
25°	4530.6	4543.0	4414.1	4257.8	4105.7	4074.2	4296.3	4772.0	4907.6	5579.4	6159.3
27.5°	5013.2	5022.8	4874.8	4644.4	4338.7	4135.9	4275.7	4743.1	4884.4	5552.0	6115.4
30°	5599.9	5645.2	5446.4	5155.8	4710.3	4318.2	4316.9	4728.1	4858.3	5505.3	6029.0
32.5°	6200.4	6219.5	6082.5	5787.8	5210.6	4639.0	4431.9	4739.0	4851.4	5449.2	5919.3
35°	6809.1	6833.7	6744.6	6507.4	5894.7	5109.1	4656.8	4803.5	4893.9	5429.9	5842.6
37.5°	7597.3	7630.2	7506.8	7232.6	6726.8	5746.6	5031.1	4965.2	5024.2	5484.8	5819.3
40°	8843.4	8828.3	8467.8	8059.2	7637.0	6562.2	5565.7	5239.3	5273.7	5661.6	5890.6
42.5°	10293.7	10256.7	9635.7	8994.2	8637.7	7549.3	6273.0	5715.1	5708.3	6009.8	6141.4
45°	11450.7	11420.5	10861.3	10070.2	9785.1	8673.4	7187.4	6423.8	6373.1	6562.2	6604.8
47.5°	12077.2	12078.6	11756.5	11110.8	11103.9	10101.8	8362.2	7449.2	7361.5	7450.6	7405.3
50°	11857.8	11886.7	11852.4	11646.8	12307.5	11974.4	9896.2	8879.0	8702.1	8789.9	8615.8
52.5°	10796.8	10833.9	11036.7	11352.0	12813.4	14237.6	12149.9	10655.7	10450.1	10418.4	10225.2
55°	8916.0	8961.3	9375.2	10232.1	12392.5	15757.9	15705.9	12920.3	12592.6	12295.2	12212.9
57.5°	6145.6	6221.0	6887.1	8159.4	11031.3	16217.1	19940.4	16148.6	15482.4	14443.3	14462.5
60°	3464.1	3551.9	4337.4	5493.0	8284.1	15718.2	23162.0	21038.5	19632.0	16958.8	17101.4
62.5°	2202.9	2297.5	2893.8	3816.4	4970.7	13031.4	24482.1	27836.5	26050.3	20059.7	20199.5
65°	1783.5	1824.6	2105.6	3150.2	3609.5	7850.8	23480.0	33436.5	32770.2	23995.4	23342.9
67.5°	1741.0	1754.7	1900.0	2644.3	3461.4	4412.8	18728.6	34483.8	35222.7	27670.6	24652.1
70°	1720.4	1768.4	2141.2	2523.7	3314.8	3721.9	11254.7	31613.3	32779.8	28631.6	22909.7
72.5°	834.8	832.1	1077.5	2282.5	3734.2	3860.3	5782.2	25578.8	26749.4	24805.5	18825.9
75°	673.1	615.5	588.1	836.3	3590.3	3986.4	3684.9	17600.4	18447.6	16631.1	11572.7
77.5°	638.8	570.3	522.3	523.6	1517.5	4227.8	3121.4	9741.3	9988.0	7512.2	3170.7
80°	529.2	466.1	431.8	486.6	734.8	4026.2	3375.0	4408.6	4045.4	1845.2	1055.6
82.5°	367.3	334.5	324.9	408.5	588.1	2869.2	3924.8	2368.8	1986.4	923.9	651.1
85°	234.5	200.2	222.1	297.5	457.9	1324.2	4042.6	1846.5	1468.1	586.8	367.3
87.5°	108.3	87.8	109.7	164.5	298.8	456.5	3846.6	2074.1	1512.0	309.9	231.7
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°	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1
2.5°	5998.9	5972.8	5952.2	5913.9	5871.3	5830.2	5793.2	5746.6	5732.9	5720.5	5739.8
5°	6018.0	5992.0	5916.6	5798.7	5668.5	5546.4	5424.5	5320.3	5255.8	5220.2	5240.8
7.5°	6046.9	6009.8	5853.5	5637.0	5402.5	5188.7	4968.0	4791.1	4660.9	4599.2	4617.0
10°	6072.8	6001.6	5746.6	5421.7	5079.1	4761.0	4412.8	4124.8	3911.0	3798.6	3826.0
12.5°	6083.8	5970.0	5597.2	5153.0	4682.9	4216.7	3704.0	3273.5	2966.6	2854.1	2830.8
15°	6094.8	5934.4	5432.7	4847.4	4204.4	3545.0	2826.7	2311.3	2056.2	2000.1	1987.7
17.5°	6097.5	5872.8	5246.2	4515.6	3643.8	2745.8	1932.9	1605.3	1606.6	1697.1	1708.1
20°	6068.8	5780.9	5020.0	4103.0	2972.0	1898.6	1327.0	1270.8	1477.8	1703.9	1731.3
22.5°	6003.0	5658.9	4763.7	3621.8	2202.9	1250.3	1026.7	1088.4	1355.8	1632.7	1664.2
25°	5919.3	5510.8	4460.8	3063.8	1458.6	893.8	860.9	936.3	1117.3	1302.3	1320.1
27.5°	5805.6	5335.4	4120.8	2425.0	947.3	736.1	758.1	808.8	882.8	965.1	973.3
30°	5658.9	5125.6	3757.5	1768.4	715.6	662.2	693.7	721.1	752.6	799.2	803.3
32.5°	5490.3	4924.1	3384.6	1221.4	634.7	623.7	648.4	662.2	686.8	715.6	718.3
35°	5349.1	4732.2	2998.1	863.7	600.5	594.9	611.4	616.8	640.2	671.7	674.4
37.5°	5268.2	4575.9	2599.1	696.4	577.1	568.9	578.5	578.5	611.4	658.0	664.8
40°	5273.7	4489.5	2200.3	629.2	557.9	547.0	548.3	548.3	590.9	641.6	645.7
42.5°	5423.1	4511.5	1846.5	603.1	542.9	530.5	523.6	527.7	563.4	596.3	599.0
45°	5774.0	4666.4	1514.8	586.8	527.7	523.6	508.6	507.2	520.9	536.0	536.0
47.5°	6349.8	4972.1	1289.9	575.7	515.5	514.0	496.2	478.4	477.1	482.5	482.5
50°	7286.1	5498.5	1139.2	563.4	507.2	496.2	475.7	448.3	438.6	442.8	442.8
52.5°	8689.9	6437.5	1081.6	547.0	489.4	471.6	448.3	420.8	412.7	414.0	414.0
55°	10530.9	7879.7	1073.4	527.7	470.3	441.4	422.2	401.6	392.1	394.8	394.8
57.5°	12780.4	9874.2	1220.1	497.7	444.2	411.2	400.3	386.6	379.7	383.8	382.5
60°	15515.3	12484.4	1809.5	466.1	418.1	383.8	383.8	372.9	367.3	371.5	370.1
62.5°	18665.6	15482.4	2544.3	442.8	390.7	361.9	367.3	361.9	356.4	359.2	357.8
65°	21459.4	17435.9	2382.6	424.9	363.2	341.4	351.0	348.2	344.1	346.8	345.5
67.5°	21540.2	16712.0	1337.9	405.8	337.3	320.8	334.5	333.1	330.4	333.1	331.7
70°	19223.5	14111.6	754.0	370.1	309.9	296.1	315.3	313.9	311.2	316.7	315.3
72.5°	15401.5	10240.2	551.1	326.2	282.4	270.1	292.0	290.6	290.6	298.8	294.7
75°	8862.5	5269.5	440.1	279.7	253.6	244.0	263.2	264.5	267.3	278.2	270.1
77.5°	2526.5	1642.2	359.2	237.1	218.0	213.9	233.0	235.8	237.1	249.5	238.6
80°	939.1	756.7	296.1	198.8	178.2	179.6	197.4	201.5	202.9	215.2	201.5
82.5°	599.0	499.0	239.9	153.5	139.8	138.4	160.4	165.9	165.9	167.3	159.1
85°	349.5	298.8	181.0	111.0	98.7	94.6	119.3	128.9	124.7	122.0	116.5
87.5°	234.5	205.6	111.0	61.7	53.5	50.7	69.9	76.7	74.1	69.9	65.8
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)