

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: P191181

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-SL3-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20393.6 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G4

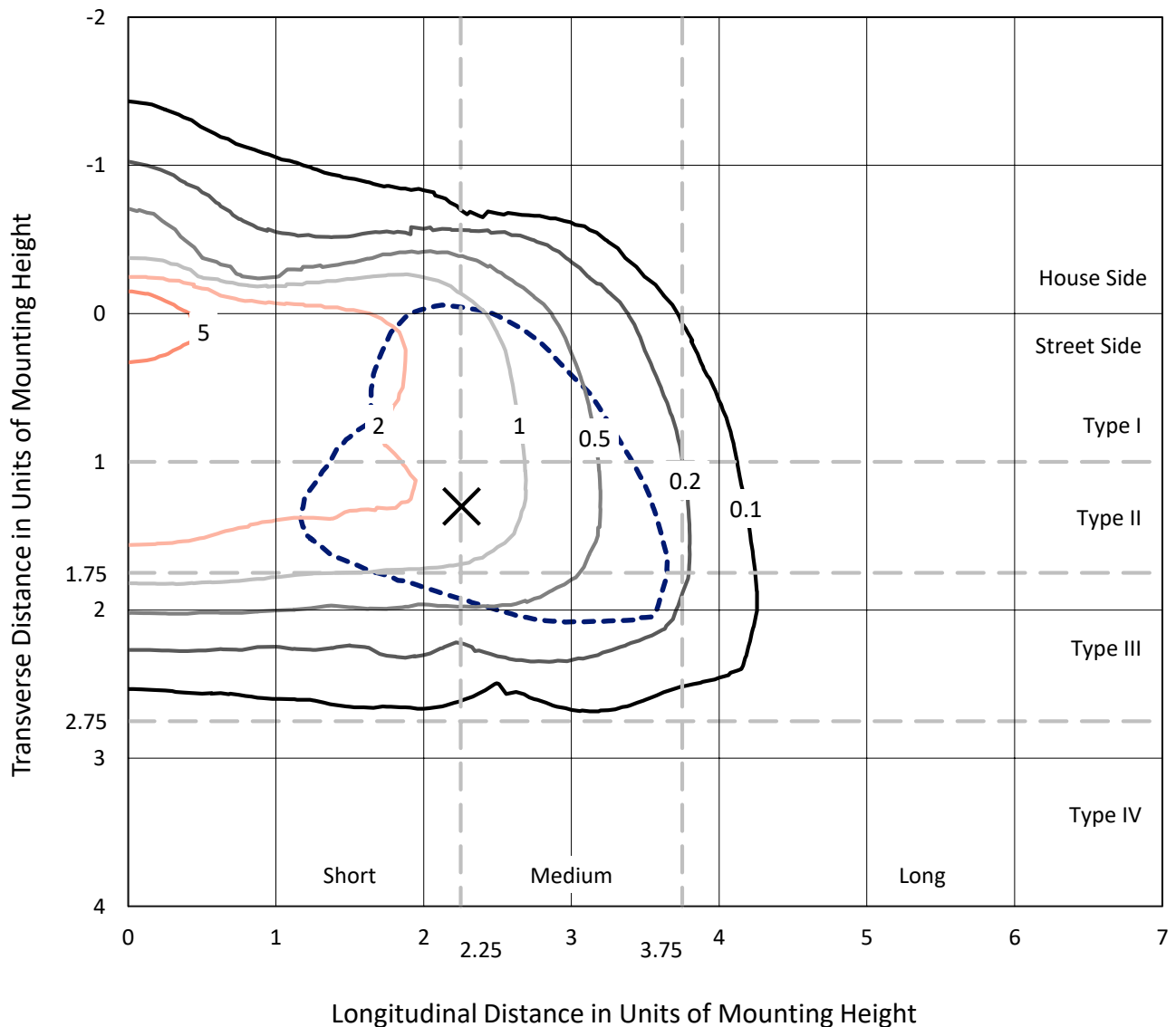
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

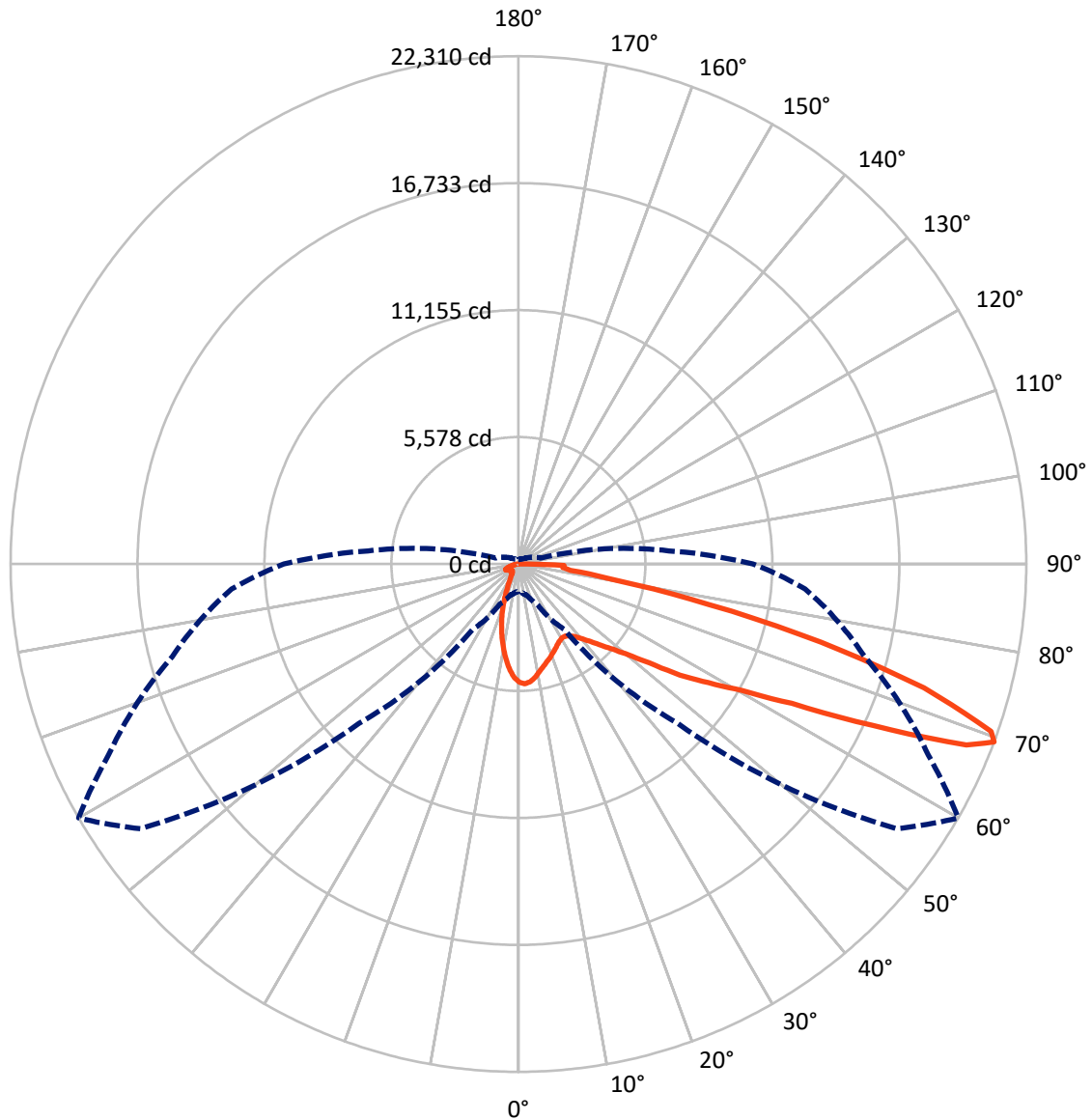
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2901.4	0.0	2901.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	17492.2	0.0	17492.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	20393.6	0.0	20393.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.4	2.2
10°-20°	936.2	4.6
20°-30°	1192.8	5.8
30°-40°	1639.8	8.0
40°-50°	2660.8	13.0
50°-60°	4267.2	20.9
60°-70°	5679.3	27.8
70°-80°	3066.4	15.0
80°-90°	511.6	2.5
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°	20393.6	100.0
0°-180°	20393.6	100.0

**Coefficient of Utilization**



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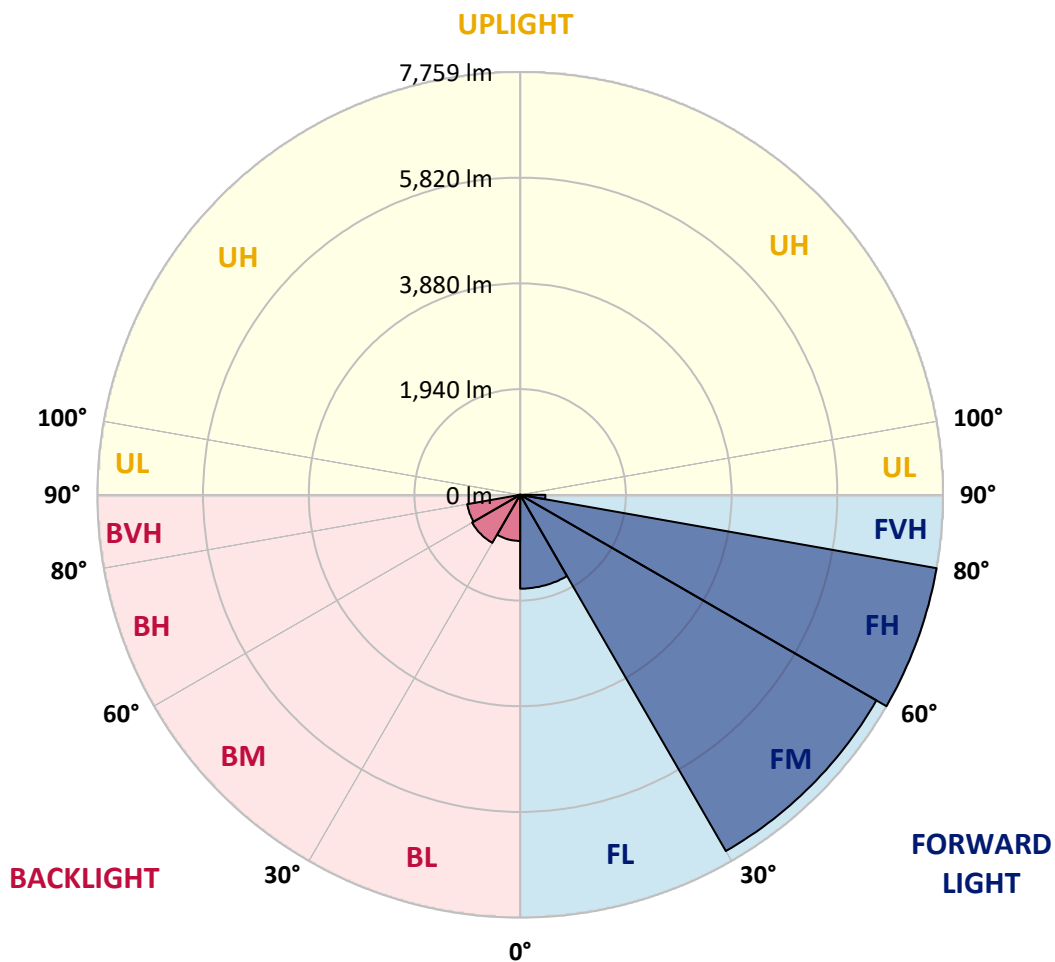
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1721.9	8.4			
FM	(30°-60°)	7548.5	37.0			
FH	(60°-80°)	7759.4	38.0			G4/12000
FVH	(80°-90°)	462.4	2.3			G3/500
BL	(0°-30°)	846.4	4.2	B2/1000		
BM	(30°-60°)	1019.3	5.0	B2/2500		
BH	(60°-80°)	986.4	4.8	B2/1000		G2/1000
BVH	(80°-90°)	49.3	0.2			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6
2.5°	5303.0	5314.8	5309.8	5307.0	5315.8	5302.0	5273.4	5264.5	5250.8	5218.3	5163.1
5°	5104.0	5139.4	5137.5	5164.1	5208.5	5220.2	5207.4	5209.4	5183.8	5143.4	5051.7
7.5°	4760.2	4774.9	4782.8	4840.9	4921.7	4986.8	5041.9	5059.6	5047.9	5013.4	4895.1
10°	4405.5	4417.3	4436.0	4504.1	4606.4	4696.2	4800.6	4860.7	4886.2	4880.4	4748.3
12.5°	4101.1	4113.0	4137.5	4214.5	4336.6	4446.9	4598.6	4673.5	4734.5	4771.0	4629.2
15°	3828.2	3853.9	3877.5	3966.2	4103.1	4247.9	4419.4	4513.9	4608.5	4690.2	4523.7
17.5°	3615.4	3641.1	3654.8	3735.6	3881.4	4058.8	4259.8	4371.1	4489.2	4623.2	4419.4
20°	3492.3	3504.1	3498.2	3543.5	3674.5	3862.7	4101.1	4230.2	4373.0	4560.2	4314.9
22.5°	3457.8	3458.8	3437.1	3432.2	3516.9	3675.6	3931.7	4088.3	4263.7	4518.8	4225.2
25°	3541.6	3538.6	3479.5	3431.2	3440.1	3532.7	3768.1	3950.4	4172.0	4510.0	4156.2
27.5°	3727.7	3736.6	3649.0	3558.3	3468.6	3465.7	3644.1	3836.1	4097.2	4550.3	4126.7
30°	3988.8	4003.6	3910.0	3794.7	3626.3	3487.3	3595.8	3768.1	4050.9	4634.1	4121.8
32.5°	4274.5	4290.3	4219.4	4098.1	3877.5	3621.3	3629.2	3774.1	4048.9	4751.3	4155.3
35°	4578.9	4596.6	4560.2	4457.7	4212.4	3868.6	3757.3	3869.6	4113.0	4930.6	4244.9
37.5°	4918.8	4946.4	4956.2	4858.7	4596.6	4194.7	3967.1	4050.9	4257.7	5179.8	4409.4
40°	5408.3	5446.8	5443.8	5304.0	5037.0	4635.1	4291.3	4313.0	4483.4	5512.8	4672.5
42.5°	6346.3	6354.2	6108.9	5804.4	5521.7	5098.1	4673.5	4655.8	4794.7	5934.4	5059.6
45°	7539.2	7506.7	6961.0	6372.9	6028.0	5630.0	5171.0	5084.3	5189.7	6448.7	5544.3
47.5°	8529.3	8454.4	7764.8	6953.1	6564.0	6208.3	5755.1	5603.4	5661.5	7031.9	6170.8
50°	8873.1	8816.9	8245.6	7435.8	7071.2	6913.7	6474.3	6259.5	6275.3	7727.4	6904.8
52.5°	8799.2	8791.3	8410.1	7754.0	7546.1	7654.5	7492.9	7202.3	7048.6	8499.7	7696.9
55°	8624.8	8641.6	8503.7	8124.4	8089.0	8369.7	8823.9	8609.1	8131.3	9279.0	8515.6
57.5°	8019.0	8062.4	8365.8	8590.3	8962.8	9380.5	9895.7	9834.6	9296.7	10121.3	9488.8
60°	6460.5	6561.0	7374.8	8499.7	9862.2	11168.5	11398.9	11257.2	10498.5	11166.5	10774.4
62.5°	4526.7	4631.1	5598.5	7359.0	9714.5	13188.0	14086.4	13474.7	12224.6	12706.3	12438.3
65°	2423.5	2473.7	3212.5	5106.0	8201.2	13604.7	18014.2	17083.2	14957.3	14604.7	13861.8
67.5°	1336.8	1364.4	1647.2	2578.1	5252.8	11980.2	20516.4	21219.8	18372.8	15868.5	13602.8
69°	1208.7	1234.4	1419.5	1952.5	3515.0	9905.5	20272.1	22310.4	19870.2	15743.4	12645.2
70°	1182.1	1205.9	1372.3	1799.9	2845.0	8164.8	19453.5	22031.6	20226.8	15295.2	11809.8
72.5°	1064.0	1089.5	1251.2	1616.6	2431.3	4070.5	15409.5	18627.9	18363.9	13261.8	8957.9
75°	992.1	1015.7	1289.5	1583.1	2327.8	2576.1	10158.7	13728.8	13499.3	9277.0	4830.1
77.5°	424.6	422.6	598.0	1339.8	2362.4	2494.4	5458.7	8576.6	7825.0	3965.2	1387.0
80°	283.8	278.8	283.8	394.0	2166.3	2508.2	2859.9	4353.3	3288.4	1010.8	683.6
82.5°	244.3	240.4	249.2	240.4	761.5	2862.8	2431.3	2315.0	1563.4	574.3	338.9
85°	164.5	157.6	214.7	215.7	359.6	2543.6	2738.6	1955.5	1264.9	340.8	167.5
87.5°	78.8	76.8	125.1	152.7	210.8	1033.4	3072.6	2003.8	1275.7	174.4	79.8
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°	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6	5196.6
2.5°	5146.4	5106.0	5066.6	5019.2	4970.0	4914.9	4887.2	4859.6	4852.8	4844.9	4817.3
5°	5004.5	4947.3	4848.8	4740.5	4626.2	4514.9	4430.2	4377.0	4336.6	4315.8	4279.4
7.5°	4821.3	4737.5	4565.1	4377.9	4185.8	4010.5	3858.8	3763.2	3672.6	3630.2	3582.0
10°	4646.9	4521.7	4253.8	3977.9	3702.2	3437.1	3187.9	3011.6	2855.0	2767.3	2705.2
12.5°	4497.1	4325.8	3954.3	3580.9	3202.7	2825.4	2452.0	2158.4	1913.1	1784.1	1718.0
15°	4351.3	4144.5	3669.6	3195.8	2710.1	2196.9	1706.3	1373.3	1170.4	1089.5	1061.9
17.5°	4219.4	3954.3	3383.9	2807.6	2201.8	1581.2	1146.7	963.4	885.7	859.1	850.2
20°	4076.5	3762.2	3087.4	2401.8	1671.8	1105.3	895.5	814.7	783.2	775.3	771.4
22.5°	3938.6	3573.1	2803.7	1967.3	1200.8	853.1	769.4	735.9	731.0	737.9	737.9
25°	3821.3	3403.7	2497.3	1513.1	881.7	718.2	688.7	680.8	699.5	725.1	730.0
27.5°	3733.7	3264.7	2171.2	1117.2	702.4	624.6	623.6	636.4	682.7	731.9	741.8
30°	3673.5	3132.7	1822.5	805.9	589.1	549.7	565.5	593.0	661.0	731.0	749.7
32.5°	3643.0	3035.2	1459.0	623.6	504.4	482.7	509.3	542.8	609.8	674.8	699.5
35°	3666.7	2963.3	1116.1	520.2	445.3	428.5	456.1	488.7	528.0	555.7	574.3
37.5°	3755.4	2934.7	842.3	466.0	404.9	389.1	410.8	429.5	445.3	453.2	462.1
40°	3946.4	2965.2	674.8	438.3	382.3	362.5	371.4	378.3	388.1	396.0	400.0
42.5°	4228.2	3056.9	604.9	427.6	370.4	341.9	339.8	342.8	355.7	370.4	373.4
45°	4622.2	3218.4	600.0	434.4	364.5	325.1	316.2	320.2	339.8	362.5	366.4
47.5°	5125.7	3464.7	639.3	455.1	369.4	316.2	301.5	306.4	331.0	361.5	366.4
50°	5735.5	3808.5	705.3	485.7	391.1	318.2	296.6	299.5	325.1	358.5	363.6
52.5°	6455.6	4296.2	777.2	515.3	413.8	331.0	300.4	293.6	317.2	346.8	352.7
55°	7256.5	4921.7	851.2	541.9	425.5	346.8	308.3	285.7	302.5	327.0	331.9
57.5°	8239.7	5796.6	979.3	567.4	433.4	357.6	316.2	277.8	283.8	301.5	305.4
60°	9570.6	7033.9	1204.8	609.8	451.2	361.5	315.3	270.9	265.0	274.9	276.8
62.5°	11165.5	8377.6	1393.0	663.0	480.8	364.5	309.3	266.0	249.2	249.2	251.2
65°	12112.2	8737.1	1288.5	707.4	505.3	361.5	302.5	261.1	237.4	226.6	227.6
67.5°	11309.3	7684.1	1104.4	716.2	504.4	347.8	291.6	252.2	225.6	208.9	207.9
69°	10303.6	6629.9	1021.6	692.5	480.8	330.0	277.8	242.3	216.8	199.0	198.0
70°	9492.8	5986.6	967.4	667.0	455.1	317.2	267.0	233.4	209.8	193.1	191.1
72.5°	6901.8	3922.8	826.5	573.4	375.3	266.0	230.5	204.9	187.2	177.3	175.3
75°	3449.0	1870.8	670.9	465.0	287.7	212.8	189.1	171.4	162.5	160.6	159.6
77.5°	1132.9	857.0	479.8	346.8	213.8	166.5	152.7	139.9	137.9	143.8	141.9
80°	622.6	498.5	304.4	229.6	145.8	122.1	120.2	113.2	116.2	126.1	124.1
82.5°	317.2	259.1	188.1	137.9	98.5	87.7	95.5	91.7	95.5	104.4	103.4
85°	156.6	141.9	119.2	83.8	65.1	56.2	67.9	70.9	72.9	79.8	79.8
87.5°	90.6	83.8	63.0	39.4	32.5	29.6	39.4	38.5	45.3	49.3	48.3
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)