

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: P193713

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193713  
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-05-LED-E1-SL3-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1050mA 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: 24278 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G4

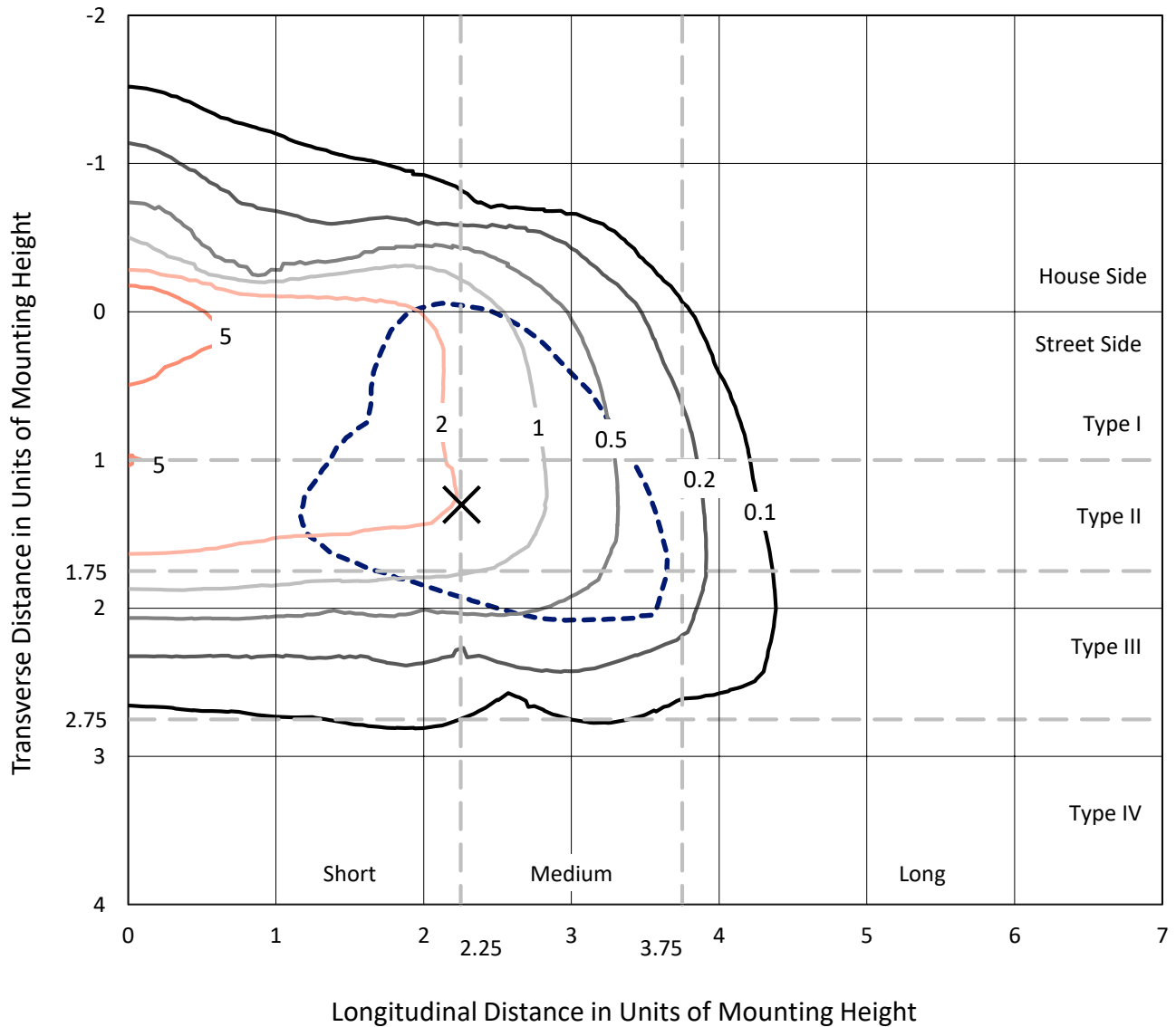
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

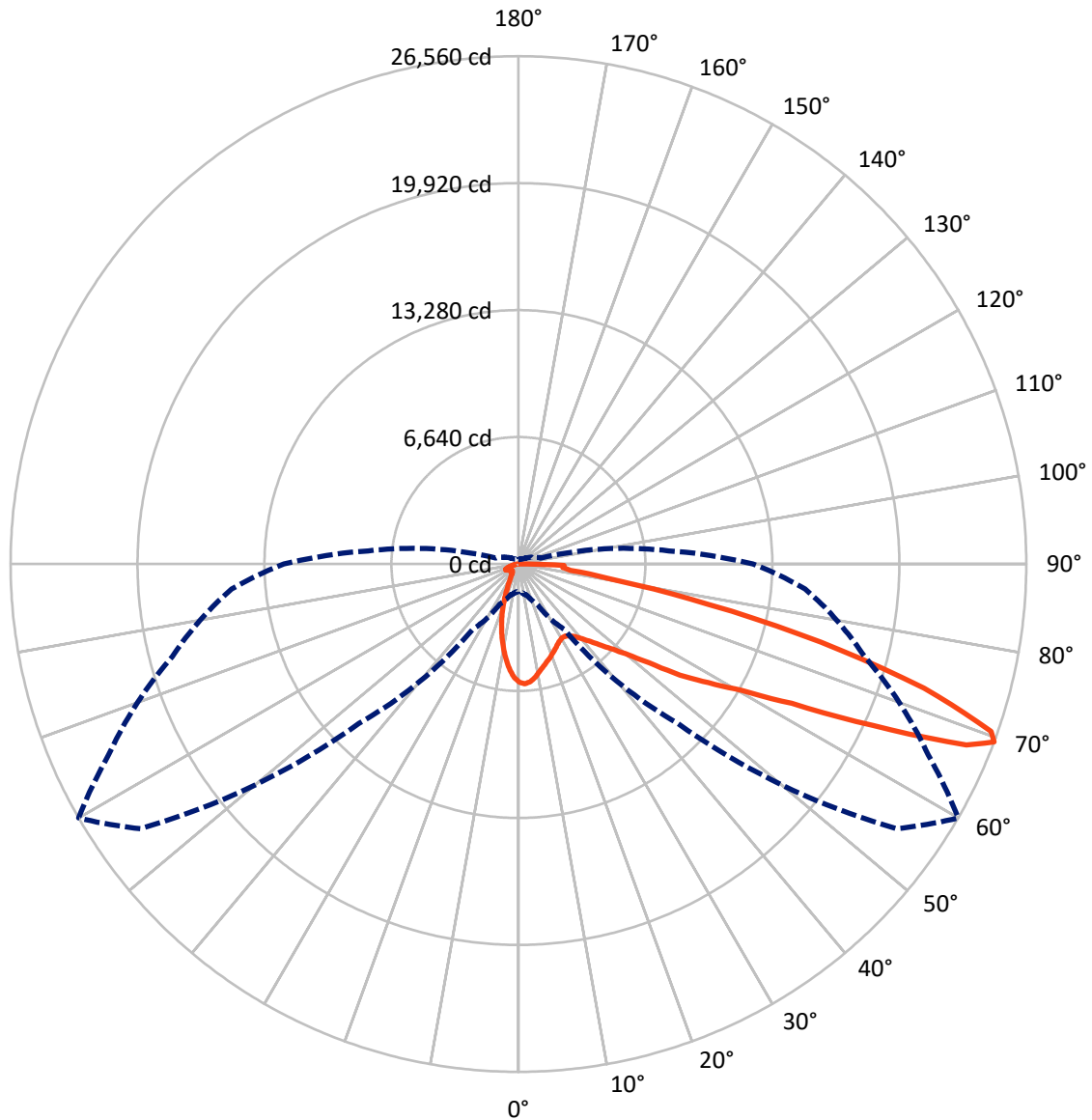
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	3454.0	0.0	3454.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	20824.0	0.0	20824.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	24278.0	0.0	24278.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.1	2.2
10°-20°	1114.5	4.6
20°-30°	1420.0	5.8
30°-40°	1952.2	8.0
40°-50°	3167.6	13.0
50°-60°	5080.0	20.9
60°-70°	6761.1	27.8
70°-80°	3650.5	15.0
80°-90°	609.1	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°	24278.0	100.0
0°-180°	24278.0	100.0

**Coefficient of Utilization**



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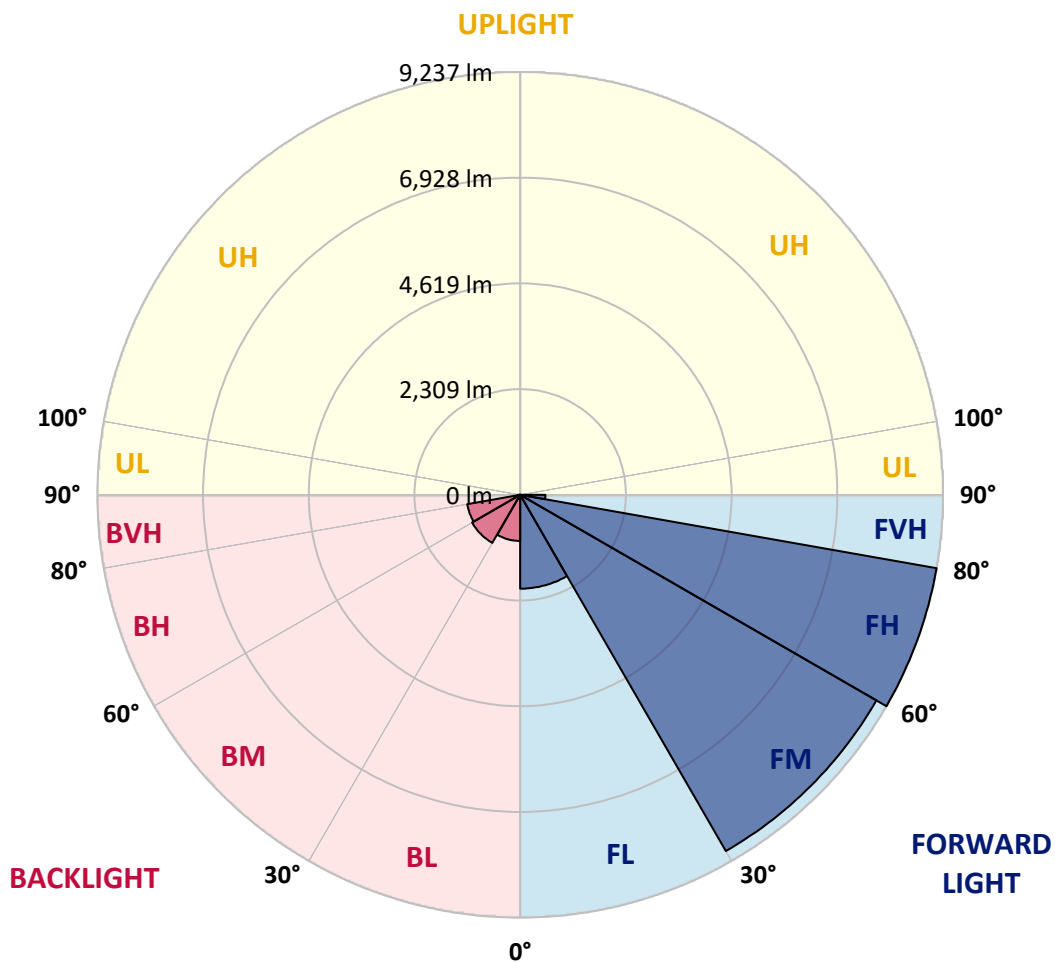
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2049.9	8.4			
FM	(30°-60°)	8986.3	37.0			
FH	(60°-80°)	9237.3	38.0			G4/12000
FVH	(80°-90°)	550.5	2.3			G4/750
BL	(0°-30°)	1007.6	4.2	B3/2500		
BM	(30°-60°)	1213.5	5.0	B2/2500		
BH	(60°-80°)	1174.3	4.8	B3/2500		G3/2500
BVH	(80°-90°)	58.7	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4
2.5°	6313.1	6327.1	6321.3	6317.8	6328.3	6311.9	6277.9	6267.3	6250.9	6212.2	6146.5
5°	6076.2	6118.4	6116.0	6147.7	6200.5	6214.5	6199.3	6201.6	6171.2	6123.1	6014.0
7.5°	5666.9	5684.5	5693.8	5763.0	5859.2	5936.6	6002.3	6023.4	6009.3	5968.3	5827.5
10°	5244.7	5258.7	5281.0	5361.9	5483.9	5590.6	5714.9	5786.5	5817.0	5809.9	5652.8
12.5°	4882.3	4896.3	4925.7	5017.1	5162.6	5293.9	5474.5	5563.7	5636.4	5679.8	5510.9
15°	4557.4	4587.9	4616.1	4721.6	4884.6	5057.0	5261.1	5373.7	5486.3	5583.6	5385.4
17.5°	4304.1	4334.6	4351.0	4447.2	4620.7	4831.8	5071.1	5203.6	5344.3	5503.8	5261.1
20°	4157.5	4171.6	4164.5	4218.5	4374.5	4598.5	4882.3	5035.9	5206.0	5428.8	5136.8
22.5°	4116.5	4117.6	4091.8	4086.0	4186.8	4375.6	4680.6	4867.0	5075.8	5379.5	5030.0
25°	4216.1	4212.6	4142.3	4084.8	4095.3	4205.6	4485.9	4702.8	4966.7	5369.0	4947.9
27.5°	4437.8	4448.3	4344.0	4236.1	4129.4	4125.8	4338.1	4566.8	4877.6	5417.1	4912.8
30°	4748.6	4766.2	4654.8	4517.5	4317.0	4151.6	4280.6	4485.9	4822.5	5516.7	4906.9
32.5°	5088.7	5107.4	5023.0	4878.8	4616.1	4311.1	4320.5	4492.9	4820.1	5656.3	4946.8
35°	5451.1	5472.2	5428.8	5306.8	5014.8	4605.5	4473.0	4606.7	4896.3	5869.8	5053.5
37.5°	5855.7	5888.5	5900.2	5784.1	5472.2	4993.7	4722.8	4822.5	5068.7	6166.5	5249.4
40°	6438.6	6484.3	6480.8	6314.2	5996.4	5517.9	5108.6	5134.4	5337.3	6562.9	5562.5
42.5°	7555.0	7564.4	7272.4	6910.0	6573.4	6069.1	5563.7	5542.5	5707.9	7064.8	6023.4
45°	8975.3	8936.6	8286.8	7586.7	7176.2	6702.4	6155.9	6052.7	6178.2	7677.0	6600.4
47.5°	10153.9	10064.8	9243.8	8277.5	7814.2	7390.8	6851.4	6670.8	6740.0	8371.3	7346.3
50°	10563.2	10496.4	9816.2	8852.1	8418.2	8230.6	7707.5	7451.8	7470.6	9199.3	8220.0
52.5°	10475.3	10465.9	10012.0	9230.9	8983.5	9112.5	8920.1	8574.2	8391.2	10118.7	9162.9
55°	10267.7	10287.6	10123.4	9671.9	9629.7	9963.9	10504.6	10248.9	9680.1	11046.4	10137.5
57.5°	9546.4	9598.0	9959.2	10226.6	10669.9	11167.2	11780.6	11707.8	11067.5	12049.1	11296.2
60°	7691.1	7810.7	8779.4	10118.7	11740.7	13295.8	13570.2	13401.3	12498.3	13293.4	12826.7
62.5°	5388.9	5513.2	6664.9	8760.7	11564.8	15700.0	16769.6	16041.3	14553.0	15126.5	14807.5
65°	2885.0	2944.8	3824.4	6078.5	9763.4	16196.1	21445.4	20337.1	17806.3	17386.4	16502.2
67.5°	1591.5	1624.3	1960.9	3069.2	6253.3	14262.2	24424.3	25261.6	21872.3	18891.1	16193.7
69°	1439.0	1469.5	1690.0	2324.4	4184.5	11792.3	24133.4	26559.9	23654.9	18742.2	15053.8
70°	1407.3	1435.5	1633.7	2142.7	3387.0	9720.0	23158.8	26228.0	24079.5	18208.5	14059.3
72.5°	1266.6	1297.1	1489.4	1924.5	2894.4	4845.9	18344.6	22176.1	21861.8	15787.9	10664.1
75°	1181.0	1209.1	1535.2	1884.7	2771.3	3066.8	12093.7	16343.8	16070.6	11044.0	5750.1
77.5°	505.5	503.1	711.9	1595.0	2812.3	2969.5	6498.4	10210.2	9315.4	4720.4	1651.3
80°	337.8	331.9	337.8	469.1	2578.9	2985.9	3404.6	5182.5	3914.7	1203.3	813.9
82.5°	290.8	286.2	296.7	286.2	906.6	3408.1	2894.4	2756.0	1861.2	683.7	403.4
85°	195.9	187.6	255.7	256.8	428.1	3028.1	3260.3	2328.0	1505.8	405.8	199.4
87.5°	93.8	91.5	148.9	181.8	251.0	1230.2	3657.9	2385.4	1518.7	207.6	95.0
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°	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4	6186.4
2.5°	6126.6	6078.5	6031.6	5975.3	5916.7	5851.0	5818.2	5785.3	5777.1	5767.7	5734.9
5°	5957.7	5889.7	5772.4	5643.4	5507.4	5374.8	5274.0	5210.7	5162.6	5137.9	5094.5
7.5°	5739.6	5639.9	5434.7	5211.8	4983.1	4774.4	4593.8	4480.0	4372.1	4321.7	4264.2
10°	5532.0	5383.1	5064.1	4735.7	4407.3	4091.8	3795.1	3585.2	3398.7	3294.3	3220.4
12.5°	5353.7	5149.7	4707.5	4263.0	3812.7	3363.5	2919.0	2569.6	2277.5	2123.9	2045.3
15°	5180.2	4933.9	4368.6	3804.5	3226.3	2615.3	2031.3	1634.9	1393.3	1297.1	1264.3
17.5°	5023.0	4707.5	4028.5	3342.4	2621.2	1882.3	1365.1	1147.0	1054.3	1022.7	1012.1
20°	4853.0	4478.8	3675.5	2859.2	1990.2	1315.9	1066.1	969.9	932.4	923.0	918.3
22.5°	4688.8	4253.7	3337.7	2342.0	1429.6	1015.6	915.9	876.1	870.2	878.4	878.4
25°	4549.2	4051.9	2973.0	1801.4	1049.6	855.0	819.8	810.4	832.7	863.2	869.0
27.5°	4444.8	3886.6	2584.8	1329.9	836.2	743.5	742.4	757.6	812.7	871.4	883.1
30°	4373.3	3729.4	2169.6	959.3	701.3	654.4	673.2	706.0	786.9	870.2	892.5
32.5°	4336.9	3613.3	1736.9	742.4	600.5	574.7	606.3	646.2	725.9	803.4	832.7
35°	4365.1	3527.7	1328.8	619.2	530.1	510.2	543.0	581.7	628.6	661.4	683.7
37.5°	4470.6	3493.7	1002.7	554.7	482.0	463.2	489.0	511.3	530.1	539.5	550.0
40°	4698.1	3530.1	803.4	521.9	455.0	431.6	442.1	450.3	462.1	471.5	476.1
42.5°	5033.6	3639.1	720.1	509.0	441.0	407.0	404.6	408.1	423.4	441.0	444.5
45°	5502.7	3831.5	714.2	517.2	433.9	387.0	376.5	381.2	404.6	431.6	436.3
47.5°	6102.0	4124.7	761.1	541.8	439.8	376.5	358.9	364.7	394.1	430.4	436.3
50°	6827.9	4534.0	839.7	578.2	465.6	378.8	353.0	356.5	387.0	426.9	432.8
52.5°	7685.2	5114.5	925.3	613.4	492.6	394.1	357.7	349.5	377.6	412.8	419.9
55°	8638.7	5859.2	1013.3	645.0	506.6	412.8	367.1	340.1	360.0	389.4	395.2
57.5°	9809.1	6900.6	1165.7	675.5	516.0	425.7	376.5	330.7	337.8	358.9	363.6
60°	11393.5	8373.6	1434.3	725.9	537.1	430.4	375.3	322.5	315.5	327.2	329.6
62.5°	13292.3	9973.3	1658.3	789.3	572.3	433.9	368.3	316.7	296.7	296.7	299.1
65°	14419.3	10401.4	1534.0	842.1	601.6	430.4	360.0	310.8	282.6	269.7	270.9
67.5°	13463.5	9147.7	1314.7	852.6	600.5	414.0	347.1	300.2	268.6	248.6	247.5
69°	12266.1	7892.8	1216.2	824.5	572.3	392.9	330.7	288.5	258.0	236.9	235.7
70°	11300.9	7127.0	1151.7	794.0	541.8	377.6	317.8	277.9	249.8	229.9	227.5
72.5°	8216.5	4670.0	984.0	682.6	446.8	316.7	274.4	243.9	222.8	211.1	208.8
75°	4105.9	2227.1	798.7	553.6	342.5	253.3	225.2	204.1	193.5	191.2	190.0
77.5°	1348.7	1020.3	571.1	412.8	254.5	198.2	181.8	166.5	164.2	171.2	168.9
80°	741.2	593.4	362.4	273.3	173.6	145.4	143.1	134.9	138.4	150.1	147.8
82.5°	377.6	308.4	224.0	164.2	117.3	104.4	113.8	109.1	113.8	124.3	123.1
85°	186.5	168.9	141.9	99.7	77.4	66.8	80.9	84.4	86.8	95.0	95.0
87.5°	107.9	99.7	75.1	46.9	38.7	35.2	46.9	45.7	53.9	58.6	57.5
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)