

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: P193714

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193714  
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-06-LED-E1-SL3-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 29053 lumens  
Efficiency: N/A  
Efficacy: 87.2 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

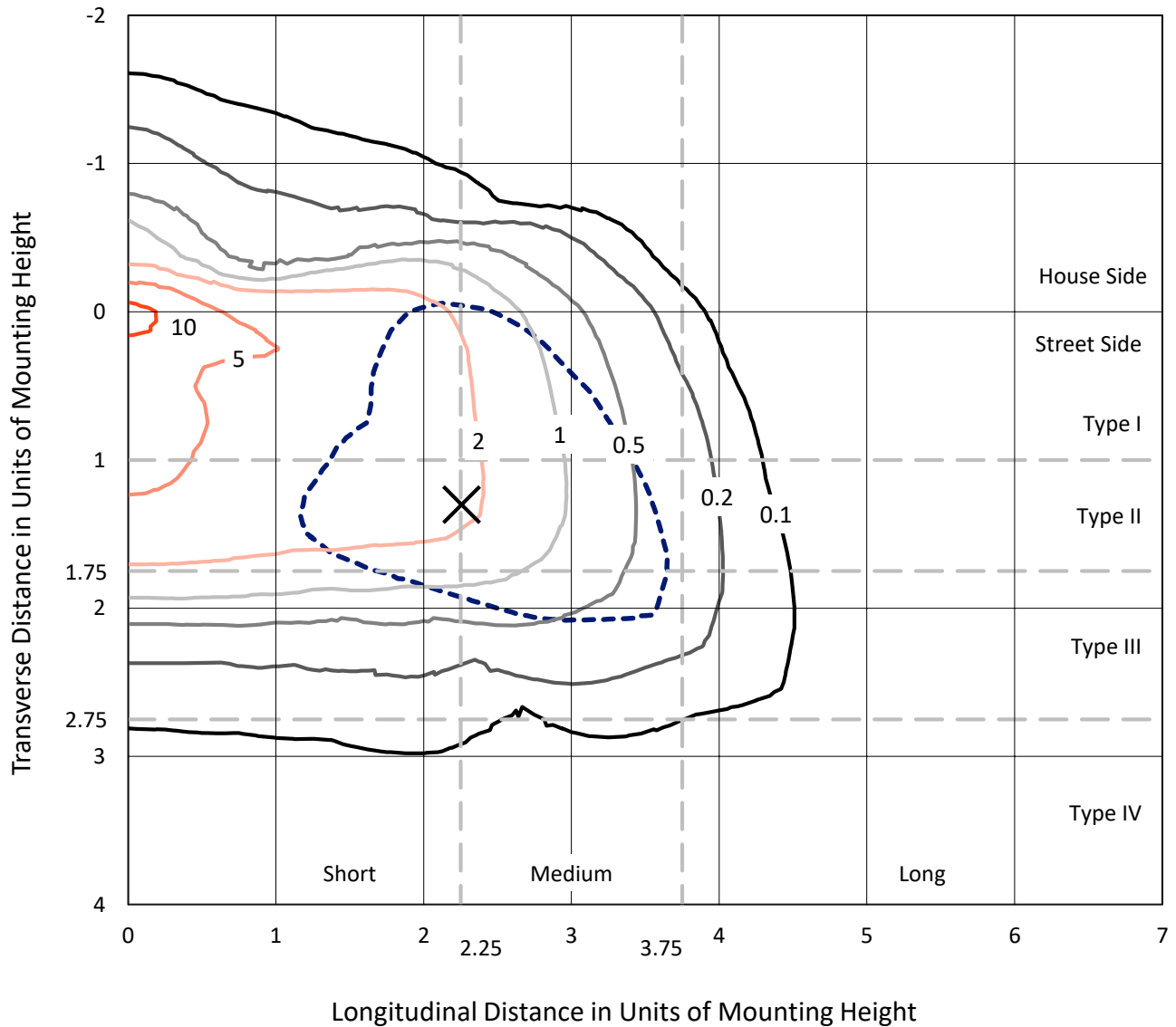
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

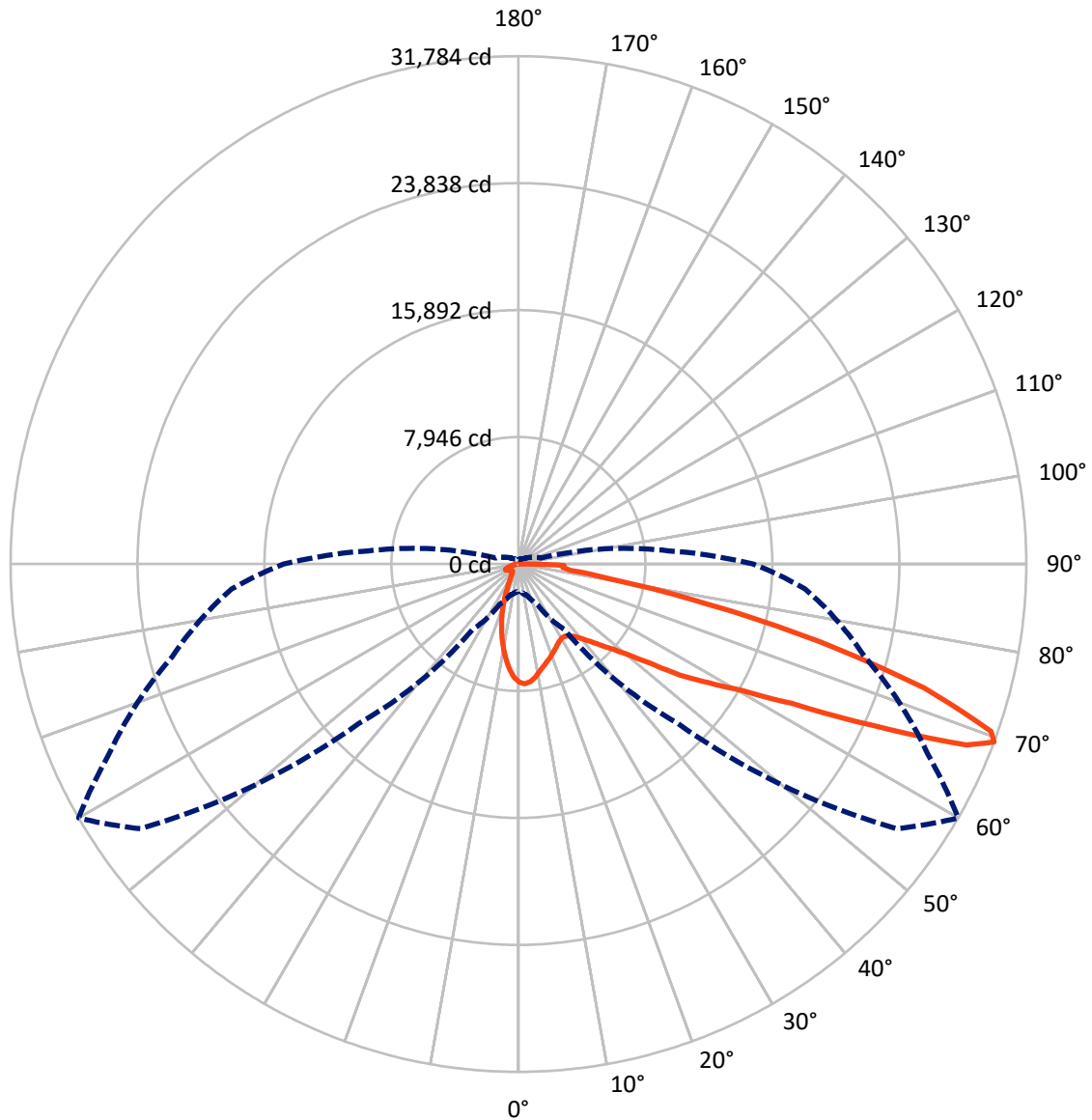
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	4133.3	0.0	4133.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	24919.7	0.0	24919.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	29053.0	0.0	29053.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	626.0	2.2
10°-20°	1333.7	4.6
20°-30°	1699.3	5.8
30°-40°	2336.1	8.0
40°-50°	3790.6	13.0
50°-60°	6079.1	20.9
60°-70°	8090.9	27.8
70°-80°	4368.4	15.0
80°-90°	728.9	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°	29053.0	100.0
0°-180°	29053.0	100.0

**Coefficient of Utilization**



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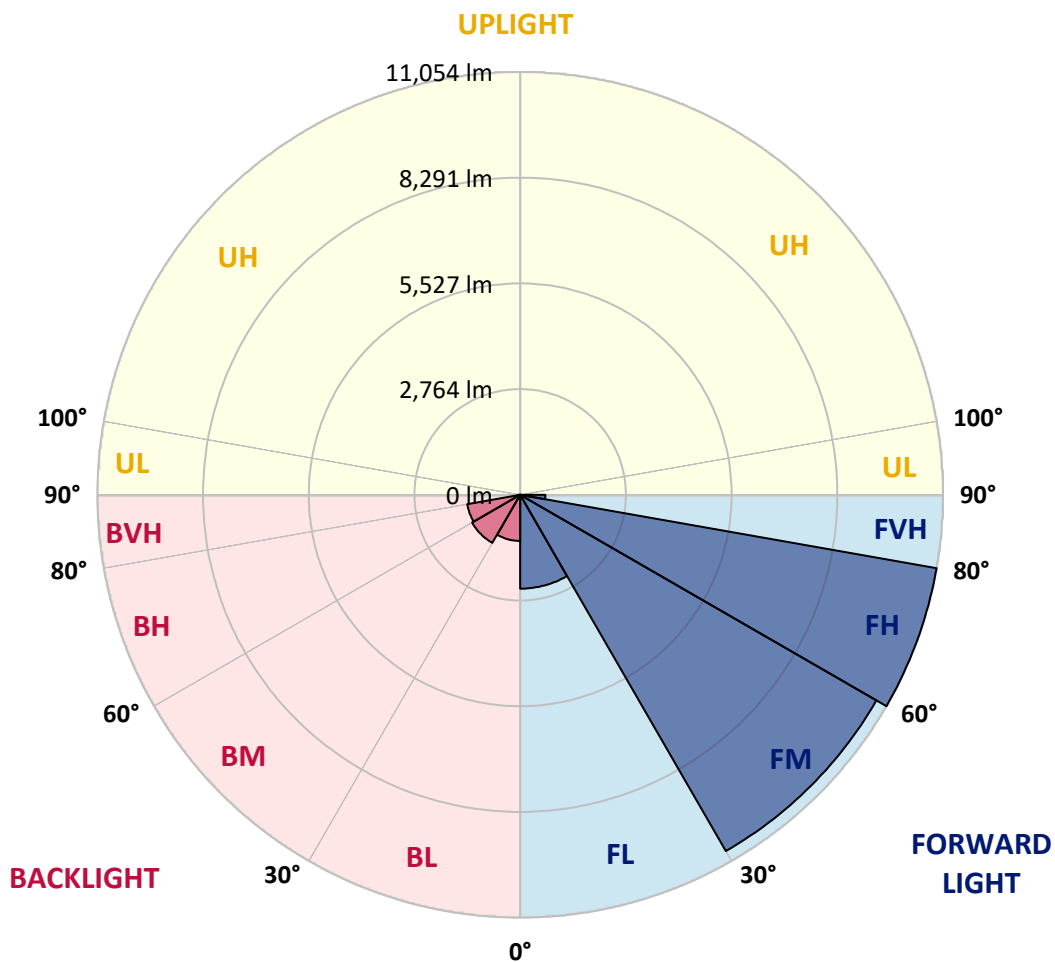
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2453.1	8.4			
FM	(30°-60°)	10753.7	37.0			
FH	(60°-80°)	11054.1	38.0			G4/12000
FVH	(80°-90°)	658.7	2.3			G4/750
BL	(0°-30°)	1205.8	4.2	B3/2500		
BM	(30°-60°)	1452.1	5.0	B2/2500		
BH	(60°-80°)	1405.2	4.8	B3/2500		G3/2500
BVH	(80°-90°)	70.2	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°	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1
2.5°	7554.7	7571.6	7564.5	7560.3	7573.0	7553.3	7512.6	7500.0	7480.3	7434.0	7355.4
5°	7271.2	7321.7	7318.9	7356.8	7420.0	7436.8	7418.6	7421.4	7384.9	7327.4	7196.8
7.5°	6781.4	6802.5	6813.7	6896.5	7011.6	7104.2	7182.8	7208.1	7191.2	7142.1	6973.7
10°	6276.2	6293.0	6319.7	6416.5	6562.5	6690.2	6839.0	6924.6	6961.1	6952.6	6764.6
12.5°	5842.5	5859.4	5894.4	6003.9	6177.9	6335.1	6551.3	6657.9	6744.9	6796.9	6594.8
15°	5453.8	5490.3	5523.9	5650.2	5845.3	6051.6	6295.8	6430.6	6565.3	6681.8	6444.6
17.5°	5150.6	5187.1	5206.8	5321.8	5529.6	5782.2	6068.5	6227.1	6395.5	6586.3	6295.8
20°	4975.2	4992.0	4983.6	5048.2	5234.8	5502.9	5842.5	6026.4	6229.9	6496.5	6147.1
22.5°	4926.1	4927.5	4896.6	4889.6	5010.3	5236.2	5601.1	5824.3	6074.1	6437.6	6019.4
25°	5045.4	5041.2	4956.9	4888.2	4900.8	5032.7	5368.2	5627.8	5943.6	6424.9	5921.1
27.5°	5310.6	5323.2	5198.3	5069.2	4941.5	4937.3	5191.3	5465.0	5836.9	6482.5	5879.0
30°	5682.5	5703.6	5570.3	5406.1	5166.1	4968.2	5122.6	5368.2	5770.9	6601.8	5872.0
32.5°	6089.5	6112.0	6010.9	5838.3	5523.9	5159.0	5170.3	5376.6	5768.1	6768.8	5919.7
35°	6523.2	6548.5	6496.5	6350.6	6001.1	5511.3	5352.7	5512.7	5859.4	7024.2	6047.4
37.5°	7007.4	7046.7	7060.7	6921.8	6548.5	5975.8	5651.7	5770.9	6065.7	7379.3	6281.8
40°	7704.9	7759.6	7755.4	7556.1	7175.8	6603.2	6113.4	6144.3	6387.1	7853.6	6656.5
42.5°	9041.0	9052.2	8702.7	8269.1	7866.3	7262.8	6657.9	6632.7	6830.5	8454.3	7208.1
45°	10740.5	10694.2	9916.7	9078.9	8587.6	8020.7	7366.7	7243.2	7393.3	9186.9	7898.6
47.5°	12151.0	12044.3	11061.9	9905.5	9351.1	8844.5	8198.9	7982.8	8065.6	10017.8	8791.1
50°	12640.8	12560.8	11746.8	10593.2	10073.9	9849.3	9223.4	8917.5	8939.9	11008.6	9836.7
52.5°	12535.5	12524.3	11981.2	11046.5	10750.3	10904.7	10674.6	10260.5	10041.6	12108.9	10965.1
55°	12287.1	12311.0	12114.5	11574.2	11523.6	11923.6	12570.6	12264.7	11584.0	13219.0	12131.3
57.5°	11424.0	11485.8	11918.0	12238.0	12768.5	13363.6	14097.6	14010.5	13244.3	14418.9	13517.9
60°	9203.8	9346.9	10506.2	12108.9	14049.8	15910.8	16239.2	16037.1	14956.5	15908.0	15349.4
62.5°	6448.8	6597.6	7975.7	10483.7	13839.3	18787.9	20067.8	19196.3	17415.3	18101.6	17719.8
65°	3452.5	3524.0	4576.6	7274.0	11683.6	19381.5	25663.3	24337.1	21308.4	20806.0	19747.8
67.5°	1904.5	1943.8	2346.6	3672.8	7483.1	17067.2	29228.0	30230.1	26174.2	22606.6	19378.7
69°	1722.0	1758.5	2022.4	2781.6	5007.5	14111.6	28880.0	31783.7	28307.4	22428.4	18014.6
70°	1684.1	1717.8	1955.0	2564.1	4053.1	11631.7	27713.7	31386.5	28815.4	21789.8	16824.4
72.5°	1515.7	1552.2	1782.4	2303.0	3463.7	5799.0	21952.6	26537.6	26161.5	18893.1	12761.5
75°	1413.3	1446.9	1837.1	2255.3	3316.3	3670.0	14472.3	19558.3	19231.3	13216.2	6881.1
77.5°	604.9	602.1	851.9	1908.7	3365.4	3553.5	7776.5	12218.3	11147.5	5648.8	1976.0
80°	404.2	397.2	404.2	561.4	3086.2	3573.2	4074.2	6201.8	4684.7	1439.9	974.0
82.5°	348.1	342.4	355.1	342.4	1084.9	4078.4	3463.7	3298.1	2227.3	818.2	482.8
85°	234.4	224.6	305.9	307.4	512.3	3623.7	3901.6	2785.8	1802.0	485.6	238.6
87.5°	112.3	109.5	178.2	217.5	300.3	1472.2	4377.3	2854.6	1817.5	248.4	113.7
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°	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1	7403.1
2.5°	7331.6	7274.0	7217.9	7150.5	7080.4	7001.8	6962.5	6923.2	6913.3	6902.1	6862.8
5°	7129.5	7048.1	6907.7	6753.4	6590.6	6432.0	6311.3	6235.5	6177.9	6148.5	6096.5
7.5°	6868.4	6749.1	6503.5	6236.9	5963.2	5713.4	5497.3	5361.1	5232.0	5171.7	5102.9
10°	6620.0	6441.8	6060.1	5667.1	5274.1	4896.6	4541.5	4290.3	4067.2	3942.3	3853.8
12.5°	6406.7	6162.5	5633.4	5101.5	4562.6	4025.1	3493.2	3074.9	2725.5	2541.6	2447.6
15°	6199.0	5904.3	5227.8	4552.8	3860.9	3129.7	2430.8	1956.4	1667.3	1552.2	1512.9
17.5°	6010.9	5633.4	4820.8	3999.8	3136.7	2252.5	1633.6	1372.6	1261.7	1223.8	1211.2
20°	5807.4	5359.7	4398.4	3421.6	2381.6	1574.7	1275.7	1160.6	1115.7	1104.5	1098.9
22.5°	5611.0	5090.3	3994.2	2802.7	1710.8	1215.4	1096.1	1048.4	1041.4	1051.2	1051.2
25°	5443.9	4848.9	3557.7	2155.7	1256.1	1023.1	981.0	969.8	996.4	1032.9	1039.9
27.5°	5319.0	4651.0	3093.2	1591.5	1000.7	889.8	888.4	906.6	972.6	1042.8	1056.8
30°	5233.4	4462.9	2596.4	1148.0	839.3	783.1	805.6	844.9	941.7	1041.4	1068.0
32.5°	5189.9	4324.0	2078.5	888.4	718.6	687.7	725.6	773.3	868.7	961.4	996.4
35°	5223.6	4221.5	1590.1	741.0	634.4	610.5	649.8	696.1	752.2	791.5	818.2
37.5°	5349.9	4180.8	1199.9	663.8	576.8	554.4	585.2	611.9	634.4	645.6	658.2
40°	5622.2	4224.4	961.4	624.5	544.5	516.5	529.1	538.9	553.0	564.2	569.8
42.5°	6023.6	4354.9	861.7	609.1	527.7	487.0	484.2	488.4	506.6	527.7	531.9
45°	6584.9	4585.0	854.7	618.9	519.3	463.1	450.5	456.1	484.2	516.5	522.1
47.5°	7302.1	4935.9	910.8	648.4	526.3	450.5	429.5	436.5	471.6	515.1	522.1
50°	8170.8	5425.7	1004.9	691.9	557.2	453.3	422.4	426.6	463.1	510.9	517.9
52.5°	9196.7	6120.4	1107.3	734.0	589.4	471.6	428.0	418.2	451.9	494.0	502.4
55°	10337.7	7011.6	1212.6	771.9	606.3	494.0	439.3	407.0	430.9	465.9	473.0
57.5°	11738.4	8257.8	1395.0	808.4	617.5	509.4	450.5	395.8	404.2	429.5	435.1
60°	13634.4	10020.6	1716.4	868.7	642.8	515.1	449.1	385.9	377.5	391.6	394.4
62.5°	15906.6	11934.9	1984.5	944.5	684.9	519.3	440.7	378.9	355.1	355.1	357.9
65°	17255.3	12447.1	1835.7	1007.7	720.0	515.1	430.9	371.9	338.2	322.8	324.2
67.5°	16111.5	10946.8	1573.3	1020.3	718.6	495.4	415.4	359.3	321.4	297.5	296.1
69°	14678.6	9445.2	1455.4	986.6	684.9	470.2	395.8	345.2	308.8	283.5	282.1
70°	13523.5	8528.7	1378.2	950.1	648.4	451.9	380.3	332.6	298.9	275.1	272.3
72.5°	9832.5	5588.5	1177.5	816.8	534.7	378.9	328.4	291.9	266.7	252.6	249.8
75°	4913.4	2665.1	955.7	662.4	409.8	303.1	269.5	244.2	231.6	228.8	227.4
77.5°	1614.0	1221.0	683.5	494.0	304.5	237.2	217.5	199.3	196.5	204.9	202.1
80°	887.0	710.1	433.7	327.0	207.7	174.0	171.2	161.4	165.6	179.6	176.8
82.5°	451.9	369.1	268.1	196.5	140.3	124.9	136.1	130.5	136.1	148.8	147.4
85°	223.1	202.1	169.8	119.3	92.6	80.0	96.8	101.0	103.9	113.7	113.7
87.5°	129.1	119.3	89.8	56.1	46.3	42.1	56.1	54.7	64.6	70.2	68.8
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)