

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: P191166

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191166  
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-08-LED-E1-SL3-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA 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: 39430.7 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G5

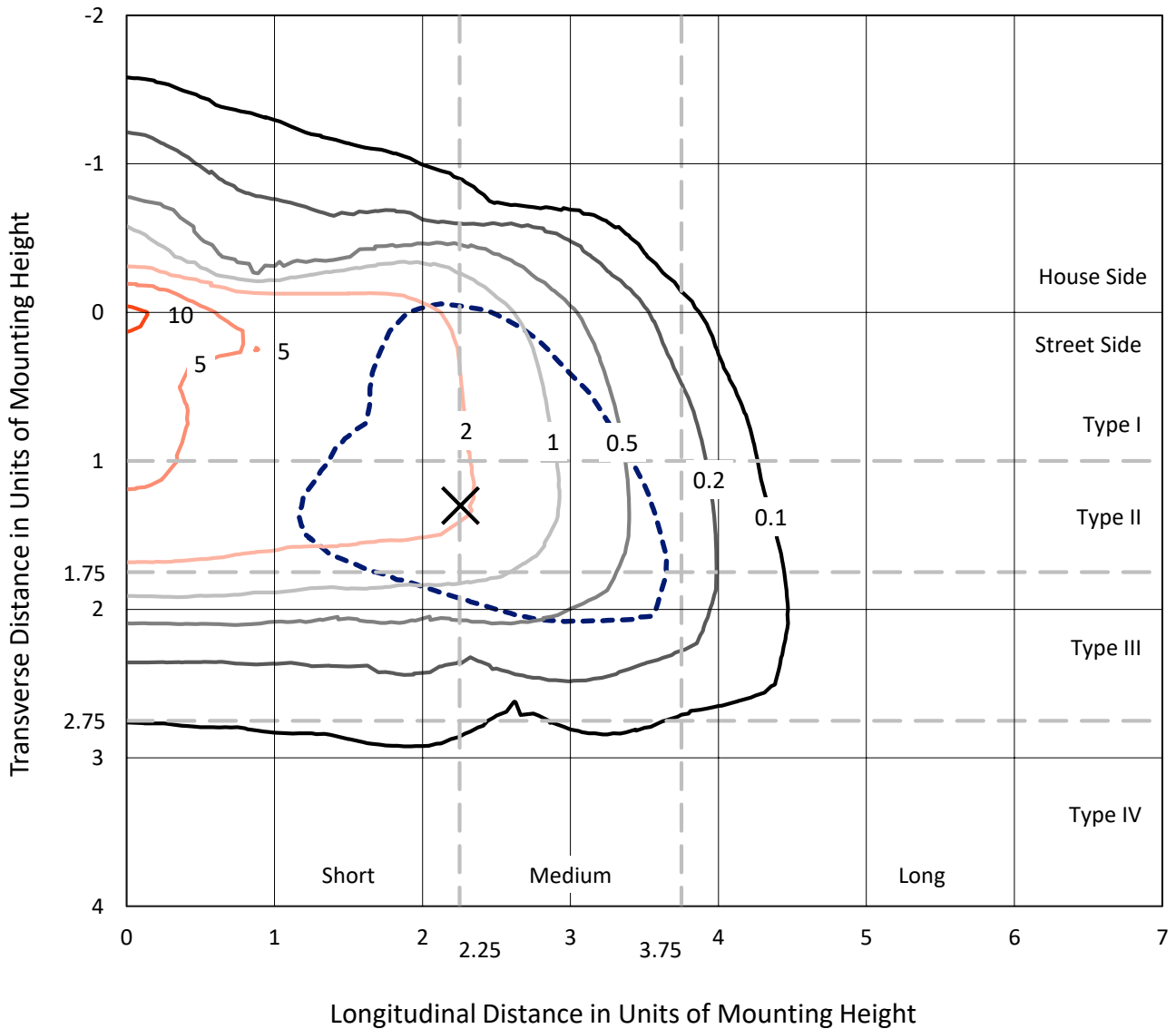
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

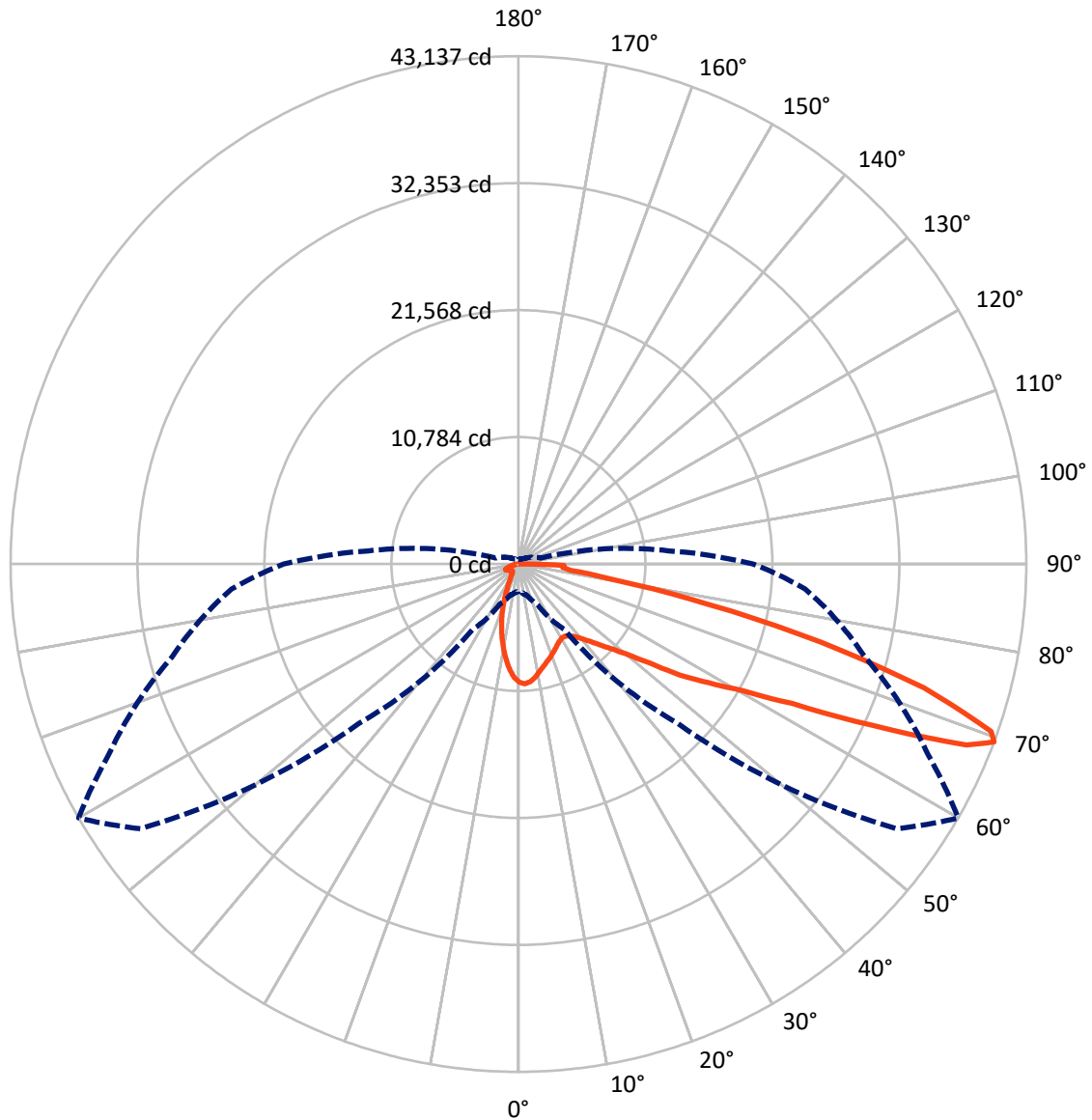
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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	5609.7	0.0	5609.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	33820.9	0.0	33820.9
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	39430.7	0.0	39430.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	849.6	2.2
10°-20°	1810.0	4.6
20°-30°	2306.3	5.8
30°-40°	3170.6	8.0
40°-50°	5144.6	13.0
50°-60°	8250.6	20.9
60°-70°	10980.9	27.8
70°-80°	5928.8	15.0
80°-90°	989.3	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°	39430.7	100.0
0°-180°	39430.7	100.0

**Coefficient of Utilization**



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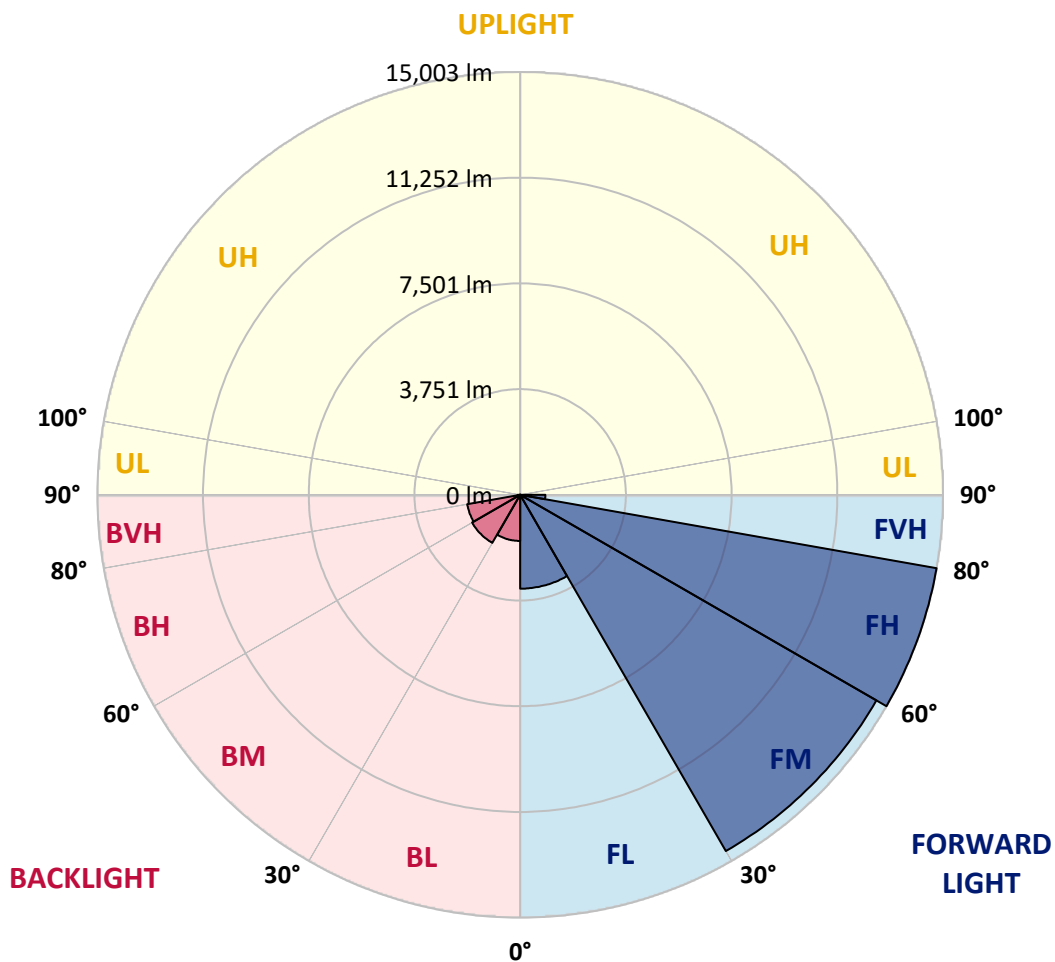
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3329.4	8.4			
FM	(30°-60°)	14594.9	37.0			
FH	(60°-80°)	15002.6	38.0			G5
FVH	(80°-90°)	894.0	2.3			G5
BL	(0°-30°)	1636.5	4.2	B3/2500		
BM	(30°-60°)	1970.8	5.0	B2/2500		
BH	(60°-80°)	1907.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	95.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5
2.5°	10253.2	10276.1	10266.5	10260.9	10278.0	10251.3	10196.1	10179.0	10152.3	10089.5	9982.8
5°	9868.5	9937.0	9933.3	9984.7	10070.4	10093.3	10068.5	10072.3	10022.8	9944.7	9767.5
7.5°	9203.7	9232.3	9247.6	9359.9	9516.1	9641.8	9748.5	9782.8	9759.9	9693.3	9464.6
10°	8518.0	8540.9	8577.0	8708.5	8906.6	9079.9	9281.8	9398.1	9447.6	9436.1	9180.9
12.5°	7929.5	7952.3	7999.9	8148.5	8384.7	8598.0	8891.4	9036.1	9154.2	9224.7	8950.4
15°	7401.9	7451.4	7497.1	7668.6	7933.3	8213.3	8544.7	8727.5	8910.4	9068.5	8746.6
17.5°	6990.4	7039.9	7066.6	7222.7	7504.7	7847.6	8236.1	8451.3	8679.9	8939.0	8544.7
20°	6752.3	6775.2	6763.8	6851.4	7104.7	7468.5	7929.5	8179.0	8455.2	8817.0	8342.8
22.5°	6685.7	6687.5	6645.7	6636.1	6800.0	7106.6	7601.9	7904.6	8243.8	8737.0	8169.5
25°	6847.5	6841.8	6727.5	6634.2	6651.3	6830.4	7285.7	7638.1	8066.6	8719.9	8036.1
27.5°	7207.5	7224.7	7055.2	6880.0	6706.6	6700.9	7045.7	7417.1	7921.8	8798.0	7979.0
30°	7712.3	7740.9	7559.9	7337.1	7011.4	6742.8	6952.3	7285.7	7832.3	8959.9	7969.5
32.5°	8264.7	8295.2	8158.0	7923.8	7497.1	7001.9	7017.0	7297.1	7828.5	9186.6	8034.3
35°	8853.2	8887.5	8817.0	8619.0	8144.7	7479.9	7264.7	7481.9	7952.3	9533.3	8207.5
37.5°	9510.4	9563.8	9582.8	9394.2	8887.5	8110.4	7670.4	7832.3	8232.3	10015.2	8525.7
40°	10457.0	10531.4	10525.7	10255.2	9739.0	8961.9	8297.1	8339.0	8668.5	10658.9	9034.2
42.5°	12270.4	12285.6	11811.3	11222.8	10676.1	9857.1	9036.1	9001.9	9270.4	11474.2	9782.8
45°	14577.0	14514.1	13459.0	12321.7	11655.1	10885.6	9998.0	9830.4	10034.2	12468.4	10719.9
47.5°	16491.3	16346.5	15013.2	13443.7	12691.3	12003.7	11127.6	10834.2	10946.6	13596.0	11931.3
50°	17156.0	17047.5	15942.7	14377.1	13672.2	13367.5	12518.0	12102.7	12133.2	14940.8	13350.3
52.5°	17013.2	16998.0	16260.8	14992.3	14590.3	14799.8	14487.5	13925.6	13628.5	16434.1	14881.8
55°	16676.0	16708.5	16441.8	15708.4	15639.9	16182.7	17060.8	16645.6	15721.7	17940.8	16464.6
57.5°	15504.7	15588.4	16175.1	16609.3	17329.4	18137.0	19133.2	19015.1	17975.1	19569.4	18346.5
60°	12491.4	12685.6	14258.9	16434.1	19068.4	21594.1	22039.8	21765.5	20298.8	21590.3	20832.2
62.5°	8752.3	8954.2	10824.7	14228.4	18782.7	25498.8	27236.0	26053.1	23636.0	24567.4	24049.3
65°	4685.6	4782.8	6211.4	9872.3	15857.0	26304.6	34830.1	33030.2	28919.7	28237.8	26801.7
67.5°	2584.7	2638.1	3184.8	4984.7	10156.1	23163.6	39668.2	41028.2	35523.5	30681.7	26300.7
69°	2337.1	2386.6	2744.8	3775.2	6796.2	19152.2	39195.9	43136.8	38418.8	30439.7	24449.3
70°	2285.7	2331.4	2653.3	3480.0	5500.9	15786.5	37613.0	42597.7	39108.2	29573.1	22834.1
72.5°	2057.2	2106.7	2419.1	3125.7	4700.9	7870.4	29794.1	36016.9	35506.3	25641.7	17319.9
75°	1918.0	1963.8	2493.3	3061.0	4500.9	4981.0	19641.8	26544.6	26100.7	17937.0	9338.9
77.5°	820.9	817.1	1156.1	2590.4	4567.6	4822.8	10554.2	16582.7	15129.4	7666.6	2681.9
80°	548.6	539.0	548.6	761.9	4188.6	4849.5	5529.5	8417.0	6358.0	1954.2	1321.9
82.5°	472.4	464.7	481.9	464.7	1472.3	5535.2	4700.9	4476.1	3022.8	1110.5	655.2
85°	318.1	304.7	415.2	417.2	695.2	4918.0	5295.2	3780.9	2445.7	659.1	323.8
87.5°	152.4	148.5	241.9	295.2	407.6	1998.0	5940.9	3874.2	2466.6	337.2	154.3
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°	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5	10047.5
2.5°	9950.3	9872.3	9796.1	9704.6	9609.4	9502.8	9449.4	9396.1	9382.8	9367.6	9314.2
5°	9676.1	9565.6	9375.1	9165.6	8944.7	8729.5	8565.7	8462.8	8384.7	8344.7	8274.2
7.5°	9321.8	9159.9	8826.6	8464.7	8093.3	7754.2	7460.9	7276.1	7100.9	7019.0	6925.7
10°	8984.7	8742.8	8224.7	7691.4	7158.0	6645.7	6163.8	5822.8	5519.9	5350.4	5230.4
12.5°	8695.2	8363.7	7645.6	6923.7	6192.3	5462.8	4740.9	4173.3	3699.0	3449.5	3321.8
15°	8413.3	8013.3	7095.2	6179.0	5240.0	4247.6	3299.0	2655.2	2262.9	2106.7	2053.3
17.5°	8158.0	7645.6	6542.8	5428.5	4257.1	3057.1	2217.1	1862.8	1712.3	1661.0	1643.8
20°	7881.8	7274.2	5969.4	4643.8	3232.3	2137.1	1731.4	1575.2	1514.3	1499.0	1491.5
22.5°	7615.2	6908.5	5420.9	3803.7	2321.9	1649.5	1487.6	1422.8	1413.3	1426.6	1426.6
25°	7388.5	6580.8	4828.5	2925.6	1704.7	1388.6	1331.4	1316.1	1352.3	1401.9	1411.4
27.5°	7219.0	6312.3	4198.1	2160.0	1358.1	1207.6	1205.8	1230.5	1320.0	1415.3	1434.3
30°	7102.8	6057.1	3523.8	1558.1	1139.1	1062.8	1093.3	1146.6	1278.1	1413.3	1449.5
32.5°	7043.7	5868.6	2820.9	1205.8	975.2	933.3	984.8	1049.5	1179.1	1304.8	1352.3
35°	7089.5	5729.4	2158.1	1005.7	860.9	828.6	881.9	944.8	1020.9	1074.3	1110.5
37.5°	7260.9	5674.2	1628.5	900.9	782.9	752.4	794.3	830.4	860.9	876.2	893.3
40°	7630.4	5733.3	1304.8	847.6	739.1	700.9	718.1	731.4	750.4	765.7	773.4
42.5°	8175.1	5910.4	1169.5	826.6	716.2	660.9	657.1	662.9	687.6	716.2	721.9
45°	8937.1	6222.8	1160.0	839.9	704.7	628.6	611.4	619.1	657.1	700.9	708.6
47.5°	9910.3	6699.0	1236.1	879.9	714.3	611.4	582.9	592.4	640.0	699.1	708.6
50°	11089.4	7363.7	1363.8	939.1	756.2	615.2	573.4	579.1	628.6	693.4	702.9
52.5°	12481.8	8306.6	1502.8	996.1	799.9	640.0	580.9	567.6	613.4	670.4	681.9
55°	14030.4	9516.1	1645.7	1047.6	822.9	670.4	596.2	552.4	584.7	632.4	641.9
57.5°	15931.3	11207.6	1893.3	1097.1	838.1	691.4	611.4	537.2	548.6	582.9	590.4
60°	18504.6	13599.9	2329.5	1179.1	872.4	699.1	609.5	523.9	512.4	531.4	535.2
62.5°	21588.4	16197.9	2693.3	1281.9	929.6	704.7	598.1	514.2	481.9	481.9	485.7
65°	23418.8	16893.2	2491.4	1367.6	977.1	699.1	584.7	504.7	459.0	438.1	440.0
67.5°	21866.5	14857.0	2135.2	1384.8	975.2	672.4	563.9	487.6	436.2	403.8	401.9
69°	19921.8	12818.9	1975.2	1339.0	929.6	638.1	537.2	468.6	419.0	384.7	382.9
70°	18354.1	11575.1	1870.5	1289.5	879.9	613.4	516.2	451.4	405.7	373.4	369.5
72.5°	13344.6	7584.7	1598.1	1108.6	725.7	514.2	445.7	396.2	361.9	342.9	339.0
75°	6668.5	3617.2	1297.1	899.1	556.2	411.4	365.7	331.4	314.3	310.5	308.5
77.5°	2190.4	1657.1	927.6	670.4	413.4	321.9	295.2	270.5	266.7	278.1	274.3
80°	1203.8	963.8	588.6	443.8	281.9	236.2	232.4	219.0	224.7	243.8	240.0
82.5°	613.4	500.9	363.8	266.7	190.5	169.5	184.7	177.2	184.7	201.9	200.0
85°	302.9	274.3	230.5	161.9	125.7	108.5	131.4	137.2	141.0	154.3	154.3
87.5°	175.2	161.9	121.9	76.2	62.8	57.2	76.2	74.3	87.7	95.2	93.3
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)