

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: P191106

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191106  
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-08-LED-E1-SL2-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA 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: 52443.6 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

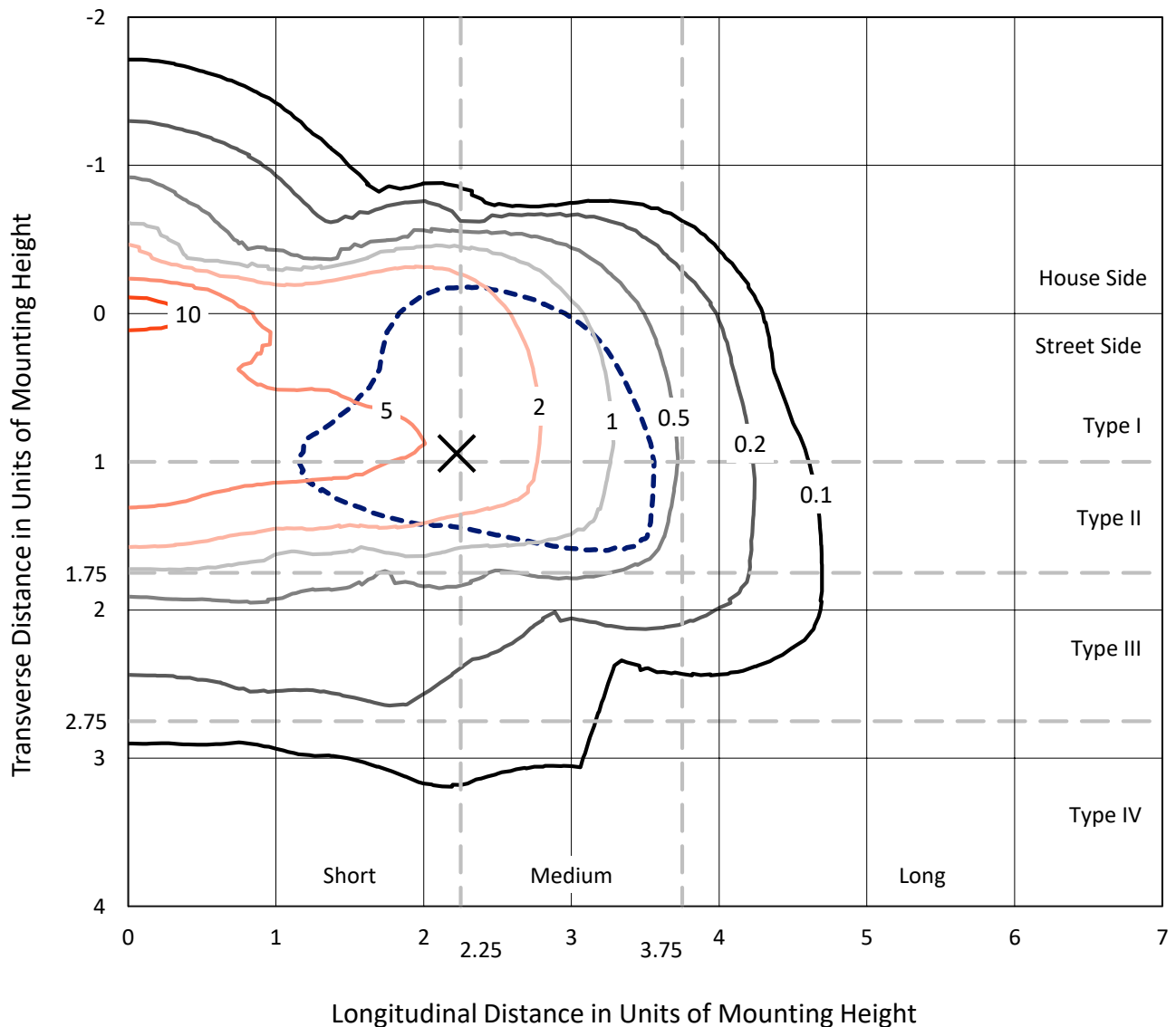
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

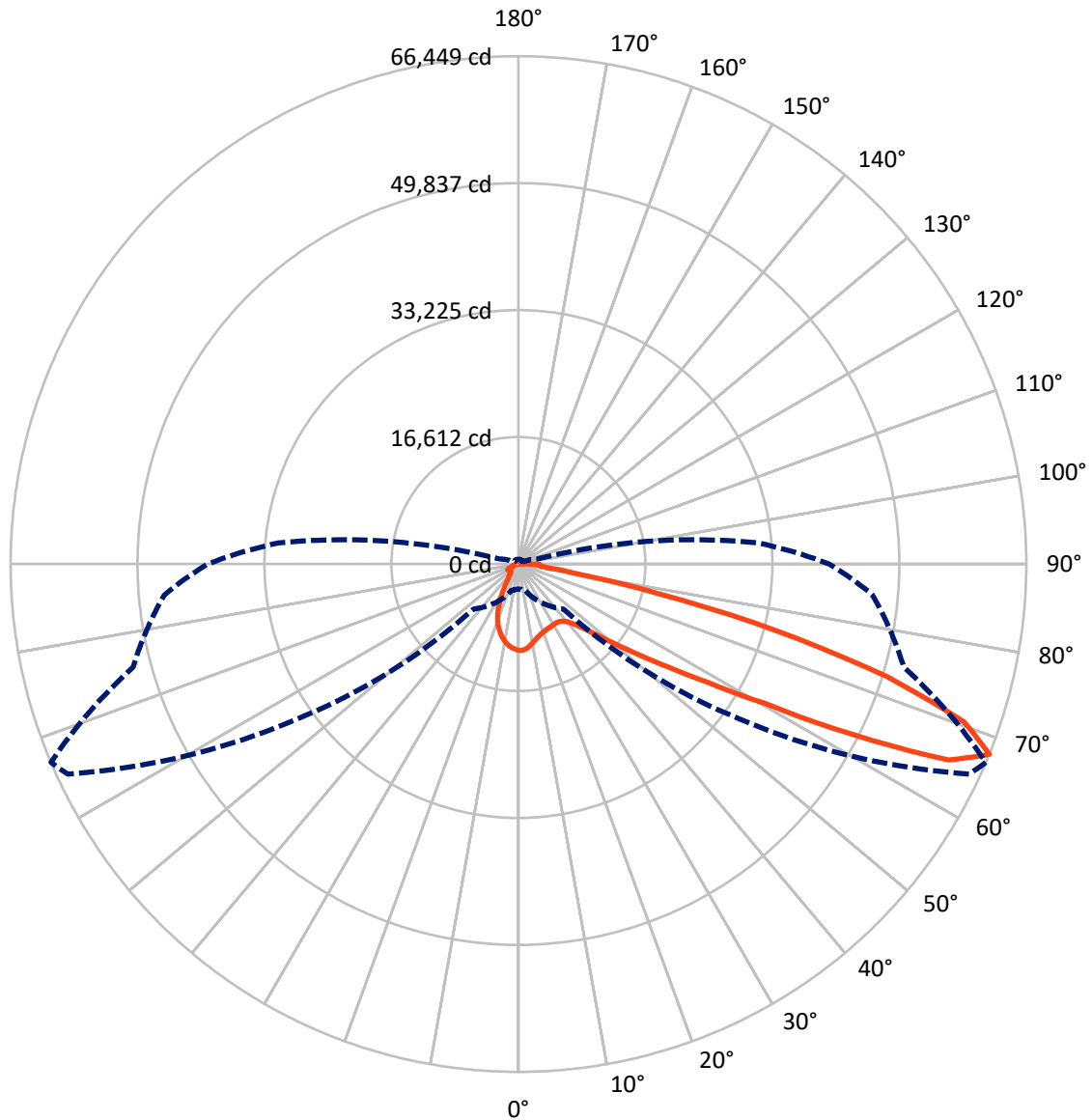
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 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
<b>House Side</b>	Lumens	8689.3	0.0	8689.3
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	43754.3	0.0	43754.3
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	52443.6	0.0	52443.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	965.1	1.8
10°-20°	2233.0	4.3
20°-30°	3026.9	5.8
30°-40°	4303.1	8.2
40°-50°	7199.2	13.7
50°-60°	11389.2	21.7
60°-70°	14508.6	27.7
70°-80°	7599.6	14.5
80°-90°	1218.8	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°	52443.6	100.0
0°-180°	52443.6	100.0



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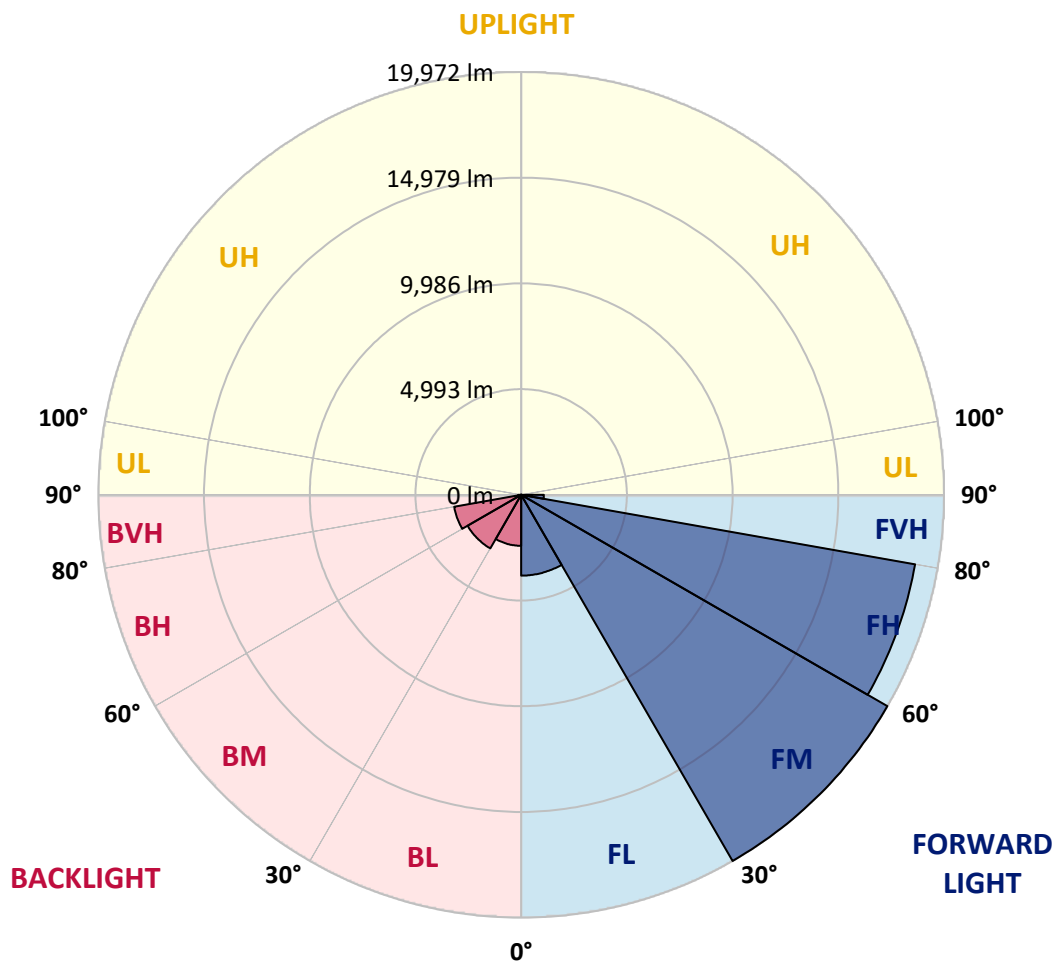
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3816.6	7.3			
FM	(30°-60°)	19971.6	38.1			
FH	(60°-80°)	18894.3	36.0			G5
FVH	(80°-90°)	1071.7	2.0			G5
BL	(0°-30°)	2408.4	4.6	B3/2500		
BM	(30°-60°)	2919.9	5.6	B3/5000		
BH	(60°-80°)	3213.9	6.1	B4/5000		G4/5000
BVH	(80°-90°)	147.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0
2.5°	10846.4	10864.6	10921.4	10957.6	11120.6	11190.4	11239.6	11288.7	11296.4	11319.8	11296.4
5°	9708.5	9747.3	9853.4	9972.3	10287.8	10536.1	10797.3	11068.8	11118.0	11293.9	11343.0
7.5°	8826.6	8816.3	8904.3	9046.5	9369.7	9713.7	10171.4	10711.9	10818.0	11213.7	11405.1
10°	8182.7	8174.9	8268.0	8415.4	8723.2	9049.0	9566.3	10305.9	10455.9	11086.9	11464.5
12.5°	7706.8	7709.4	7802.6	7965.4	8278.3	8606.8	9131.8	9912.8	10104.2	10939.5	11526.6
15°	7391.3	7412.0	7487.0	7660.3	7965.4	8293.9	8808.5	9618.0	9832.7	10823.1	11596.5
17.5°	7285.3	7318.9	7344.8	7471.5	7732.7	8061.2	8565.5	9400.8	9628.3	10743.0	11658.5
20°	7383.6	7422.3	7373.2	7417.2	7582.7	7872.3	8374.1	9230.1	9462.8	10652.5	11666.2
22.5°	7805.1	7841.3	7696.5	7569.7	7559.4	7735.2	8216.3	9095.6	9336.2	10585.3	11668.9
25°	8547.4	8570.6	8327.5	8032.7	7745.6	7686.1	8105.0	9002.5	9258.5	10525.8	11619.7
27.5°	9457.7	9475.8	9196.4	8762.0	8185.2	7802.6	8066.3	8948.2	9214.5	10474.0	11536.9
30°	10564.5	10649.9	10274.9	9726.6	8886.2	8146.5	8143.9	8919.7	9165.4	10386.1	11374.0
32.5°	11697.3	11733.6	11474.8	10918.9	9830.0	8751.7	8361.1	8940.4	9152.5	10280.0	11167.1
35°	12845.6	12892.1	12724.0	12276.6	11120.6	9638.7	8785.3	9062.0	9232.6	10243.8	11022.3
37.5°	14332.7	14394.7	14161.9	13644.7	12690.4	10841.2	9491.2	9367.2	9478.4	10347.4	10978.3
40°	16683.5	16655.0	15974.8	15204.1	14407.6	12380.1	10499.9	9884.4	9949.0	10680.9	11112.8
42.5°	19419.6	19349.8	18178.2	16967.9	16295.5	14242.1	11834.4	10781.8	10768.9	11337.8	11586.1
45°	21602.4	21545.5	20490.3	18998.1	18460.2	16362.8	13559.3	12118.9	12023.2	12380.1	12460.3
47.5°	22784.3	22786.8	22179.1	20961.0	20948.1	19057.6	15775.7	14053.3	13887.8	14055.9	13970.5
50°	22370.5	22424.8	22360.2	21972.2	23218.7	22590.3	18669.7	16750.7	16417.1	16582.6	16254.2
52.5°	20368.8	20438.6	20821.3	21416.2	24173.0	26860.1	22921.4	20102.4	19714.5	19655.0	19290.3
55°	16820.5	16905.9	17686.9	19303.3	23379.1	29728.2	29629.9	24374.8	23756.7	23195.5	23040.3
57.5°	11593.8	11736.1	12993.0	15393.0	20811.0	30594.5	37618.6	30465.2	29208.3	27248.0	27284.2
60°	6535.3	6700.8	8182.7	10362.8	15628.3	29653.2	43696.2	39690.2	37036.8	31993.7	32262.6
62.5°	4156.0	4334.4	5459.4	7199.9	9377.5	24584.3	46186.6	52515.0	49145.2	37843.6	38107.4
65°	3364.6	3442.2	3972.4	5943.0	6809.4	14811.1	44296.1	63079.5	61822.6	45268.5	44037.5
67.5°	3284.5	3310.3	3584.4	4988.7	6530.1	8324.9	35332.4	65055.4	66449.4	52202.1	46507.3
70°	3245.6	3336.1	4039.6	4761.1	6253.4	7021.5	21232.6	59640.0	61840.8	54015.0	43220.3
72.5°	1574.9	1569.8	2032.7	4306.0	7044.8	7282.7	10908.5	48255.6	50464.2	46796.9	35516.0
75°	1269.8	1161.2	1109.5	1577.6	6773.2	7520.6	6951.7	33204.0	34802.2	31375.5	21832.5
77.5°	1205.1	1075.8	985.3	988.0	2862.9	7975.7	5888.7	18377.4	18843.0	14172.3	5981.8
80°	998.3	879.3	814.7	918.1	1386.2	7595.6	6367.2	8317.2	7631.8	3481.0	1991.4
82.5°	693.0	631.1	613.0	770.7	1109.5	5412.8	7404.2	4469.0	3747.4	1743.1	1228.5
85°	442.2	377.6	419.0	561.2	863.8	2498.3	7626.6	3483.6	2769.8	1106.9	693.0
87.5°	204.3	165.5	206.9	310.4	563.7	861.2	7256.8	3912.9	2852.6	584.5	437.1
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°	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0
2.5°	11317.1	11268.0	11229.2	11156.8	11076.6	10999.1	10929.2	10841.2	10815.5	10792.1	10828.3
5°	11353.3	11304.2	11161.9	10939.5	10693.8	10463.7	10233.5	10037.0	9915.5	9848.2	9887.0
7.5°	11407.6	11337.8	11043.0	10634.4	10192.2	9788.7	9372.3	9038.7	8793.0	8676.7	8710.2
10°	11456.7	11322.3	10841.2	10228.4	9581.8	8981.8	8324.9	7781.8	7378.3	7166.3	7218.0
12.5°	11477.5	11262.8	10559.4	9721.4	8834.4	7955.1	6987.9	6175.8	5596.5	5384.4	5340.4
15°	11498.2	11195.6	10249.0	9144.8	7931.9	6687.8	5332.7	4360.3	3879.2	3773.3	3749.9
17.5°	11503.4	11079.2	9897.4	8518.9	6874.0	5180.1	3646.5	3028.4	3031.0	3201.7	3222.4
20°	11449.1	10905.9	9470.6	7740.5	5606.8	3581.9	2503.5	2397.4	2788.0	3214.6	3266.4
22.5°	11324.9	10675.7	8987.0	6832.7	4156.0	2358.6	1937.1	2053.5	2557.7	3080.1	3139.6
25°	11167.1	10396.5	8415.4	5780.1	2751.7	1686.2	1624.1	1766.3	2107.7	2456.9	2490.5
27.5°	10952.5	10065.4	7774.0	4574.9	1787.1	1388.8	1430.2	1525.8	1665.5	1820.6	1836.2
30°	10675.7	9669.7	7088.7	3336.1	1350.0	1249.1	1308.6	1360.3	1419.9	1507.7	1515.5
32.5°	10357.7	9289.5	6385.3	2304.3	1197.4	1176.7	1223.2	1249.1	1295.7	1350.0	1355.2
35°	10091.3	8927.5	5656.0	1629.3	1132.7	1122.4	1153.5	1163.8	1207.8	1267.2	1272.4
37.5°	9938.7	8632.7	4903.4	1313.8	1088.8	1073.3	1091.4	1091.4	1153.5	1241.4	1254.3
40°	9949.0	8469.7	4150.8	1187.0	1052.6	1031.9	1034.5	1034.5	1114.6	1210.4	1218.1
42.5°	10230.9	8511.2	3483.6	1137.9	1024.2	1000.9	988.0	995.6	1062.9	1124.9	1130.2
45°	10893.0	8803.4	2857.7	1106.9	995.6	988.0	959.4	956.9	982.7	1011.2	1011.2
47.5°	11979.2	9380.0	2433.6	1086.2	972.4	969.9	936.2	902.5	900.0	910.3	910.3
50°	13745.6	10373.1	2149.1	1062.9	956.9	936.2	897.4	845.7	827.6	835.3	835.3
52.5°	16393.8	12144.7	2040.5	1031.9	923.3	889.7	845.7	793.9	778.5	781.0	781.0
55°	19867.0	14865.4	2024.9	995.6	887.1	832.8	796.6	757.8	739.7	744.8	744.8
57.5°	24111.0	18628.2	2301.7	938.8	837.9	775.8	755.1	729.3	716.4	724.1	721.6
60°	29270.4	23552.3	3413.8	879.3	788.8	724.1	724.1	703.5	693.0	700.8	698.3
62.5°	35213.4	29208.3	4800.0	835.3	737.0	682.7	693.0	682.7	672.4	677.6	674.9
65°	40484.1	32893.7	4494.7	801.7	685.4	643.9	662.1	656.9	649.2	654.3	651.7
67.5°	40636.7	31528.2	2524.1	765.5	636.2	605.2	631.1	628.4	623.3	628.4	625.8
70°	36266.1	26622.2	1422.4	698.3	584.5	558.6	594.8	592.2	587.1	597.4	594.8
72.5°	29055.8	19318.7	1039.6	615.5	532.8	509.4	550.9	548.3	548.3	563.7	556.1
75°	16719.6	9941.2	830.1	527.5	478.4	460.3	496.5	499.1	504.3	525.0	509.4
77.5°	4766.3	3098.2	677.6	447.4	411.2	403.5	439.7	444.8	447.4	470.7	450.0
80°	1771.5	1427.5	558.6	375.0	336.2	338.8	372.5	380.1	382.8	406.0	380.1
82.5°	1130.2	941.3	452.6	289.7	263.8	261.2	302.6	312.9	312.9	315.5	300.0
85°	659.5	563.7	341.4	209.5	186.2	178.4	224.9	243.1	235.4	230.2	219.8
87.5°	442.2	387.9	209.5	116.4	100.9	95.6	131.9	144.8	139.6	131.9	124.2
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)