

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: P191546

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53854.3 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G5

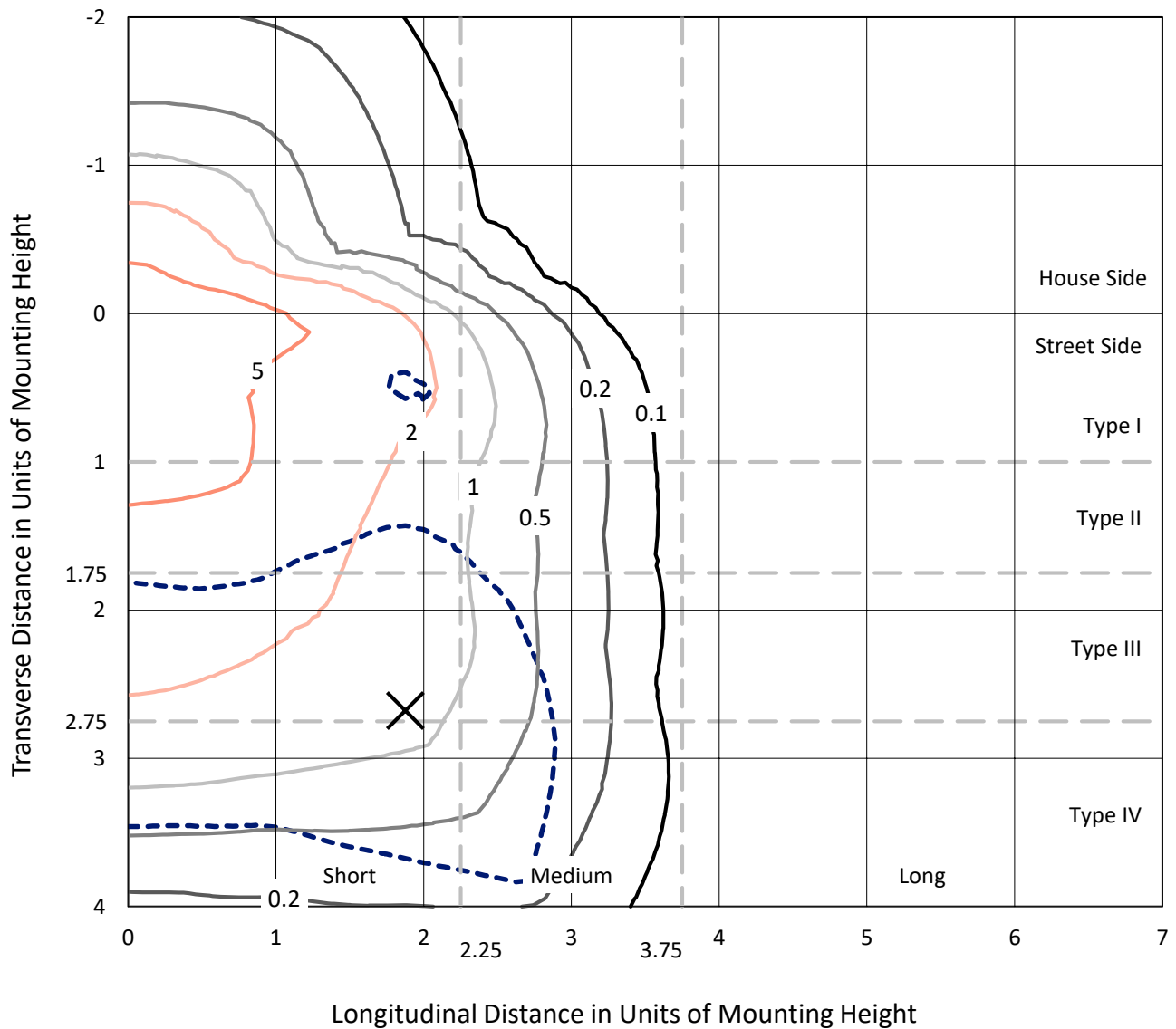
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

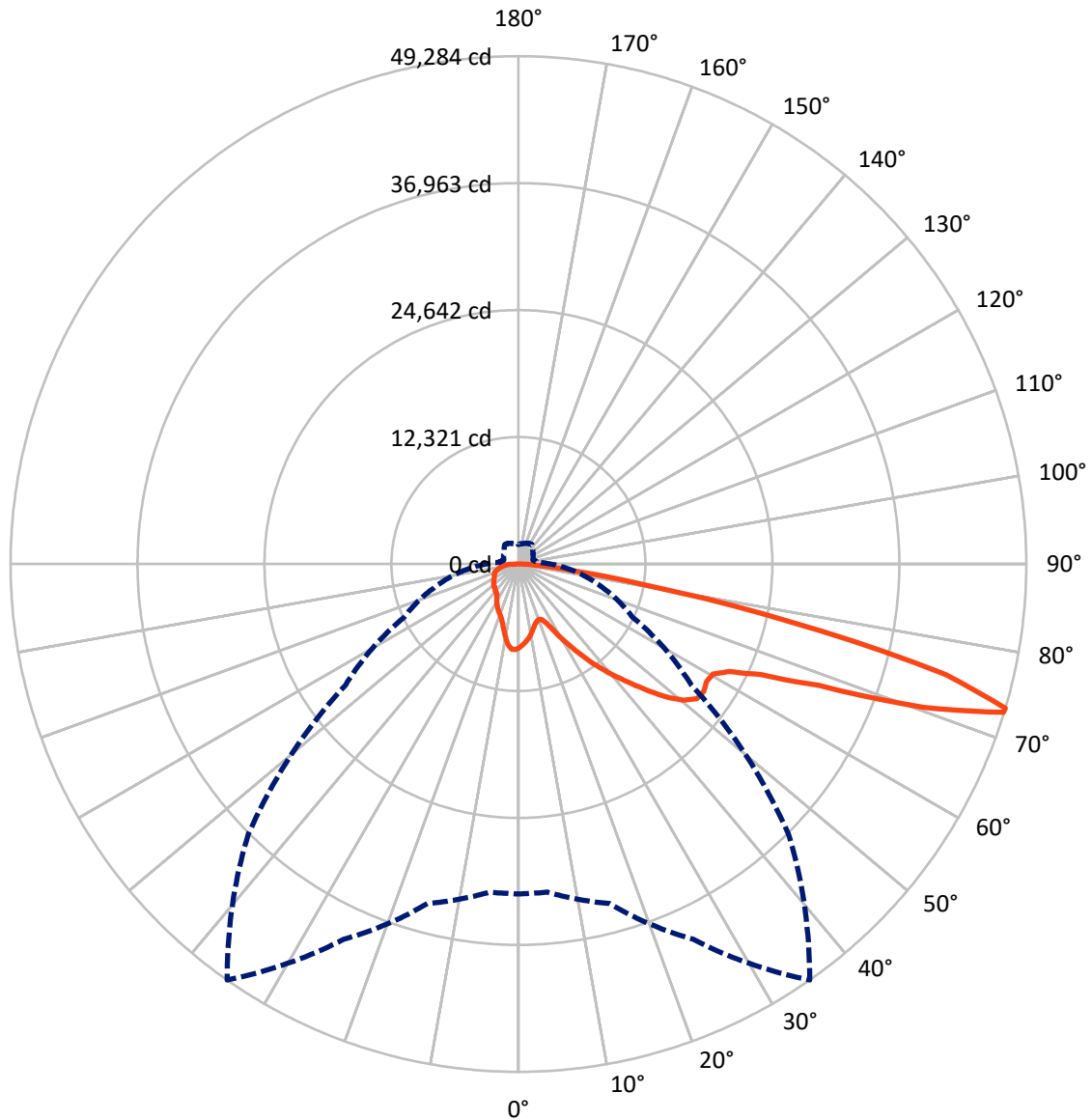
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10271.5	0.0	10271.5
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	43582.8	0.0	43582.8
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	53854.3	0.0	53854.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	735.8	1.4
10°-20°	1836.5	3.4
20°-30°	2969.1	5.5
30°-40°	4978.7	9.2
40°-50°	7674.4	14.3
50°-60°	10296.1	19.1
60°-70°	13716.4	25.5
70°-80°	10461.5	19.4
80°-90°	1185.8	2.2
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°	53854.3	100.0
0°-180°	53854.3	100.0



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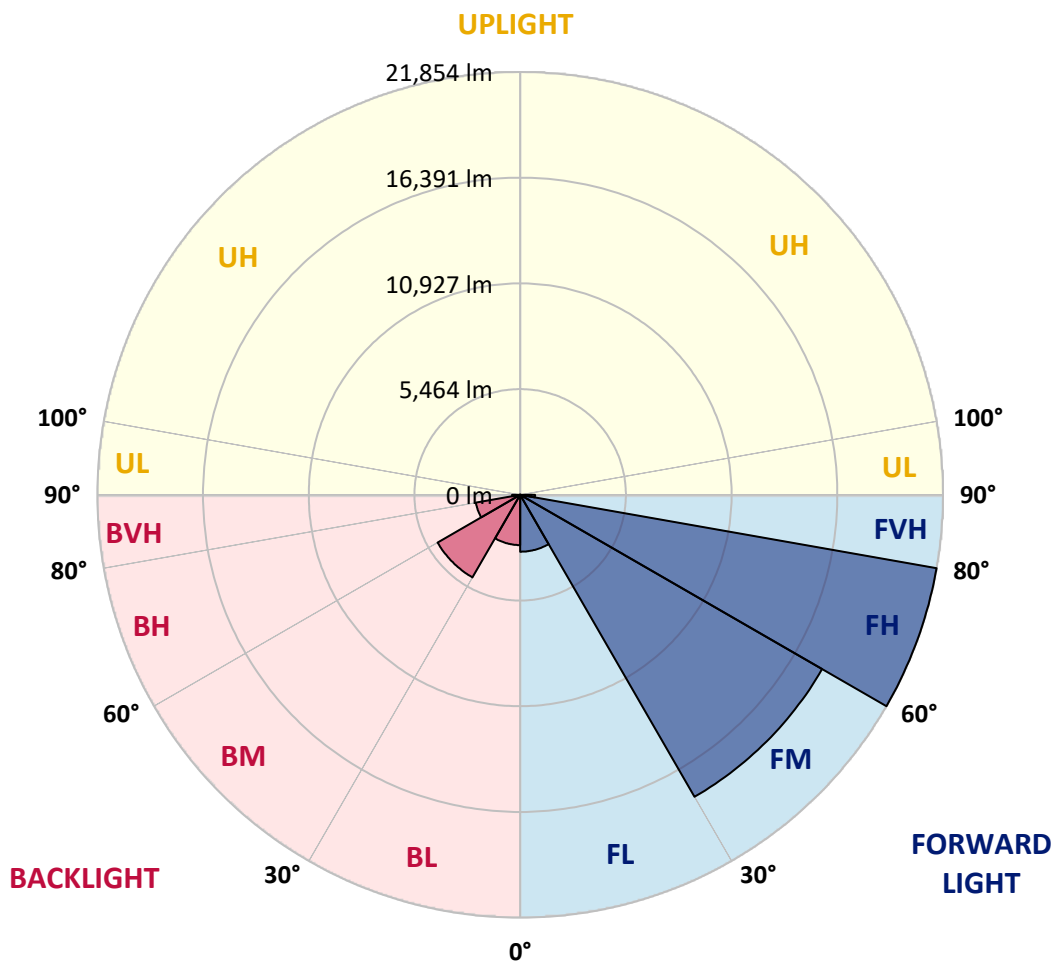
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2942.3	5.5			
FM	(30°-60°)	18020.0	33.5			
FH	(60°-80°)	21854.1	40.6			G5
FVH	(80°-90°)	766.5	1.4			G5
BL	(0°-30°)	2599.2	4.8	B4/5000		
BM	(30°-60°)	4929.2	9.2	B3/5000		
BH	(60°-80°)	2323.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	419.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8128.3	8128.3	8128.3	8128.3	8128.3	8128.3	8128.3	8128.3	8128.3	8128.3	8128.3
2.5°	7807.6	7823.1	7805.0	7828.3	7867.1	7908.4	7936.9	7978.3	8024.8	8089.5	8105.0
5°	7440.3	7463.7	7463.7	7505.0	7580.1	7647.3	7709.4	7776.6	7874.9	7986.1	8030.0
7.5°	7036.9	7049.9	7073.1	7135.2	7243.8	7339.5	7427.4	7536.1	7670.5	7817.9	7895.5
10°	6550.8	6568.9	6605.0	6693.0	6840.4	6972.2	7099.0	7249.0	7419.7	7603.3	7701.6
12.5°	6206.8	6201.6	6217.1	6281.7	6411.0	6571.4	6755.1	6946.4	7155.8	7370.6	7489.5
15°	6090.3	6061.9	6002.5	5986.9	6056.8	6217.1	6429.1	6664.5	6915.4	7174.0	7321.4
17.5°	6162.8	6113.7	5950.7	5831.7	5821.4	5942.9	6168.0	6431.8	6721.4	7036.9	7220.5
20°	6618.0	6501.6	6100.8	5824.1	5728.3	5787.9	5984.4	6263.6	6605.0	7024.0	7259.4
22.5°	7706.7	7536.1	6685.2	6170.5	5847.3	5774.9	5922.3	6219.7	6618.0	7184.3	7484.3
25°	9292.1	9048.9	7688.6	7034.3	6367.2	5981.8	6015.4	6320.6	6801.6	7556.7	7918.8
27.5°	10543.8	10386.0	8999.8	8252.5	7313.7	6540.3	6317.9	6574.0	7176.6	8167.0	8536.9
30°	11288.6	11192.9	10401.5	9633.4	8521.4	7430.0	6897.2	7049.9	7763.7	9012.7	9318.0
32.5°	12152.3	12095.5	11707.6	11001.5	9824.8	8598.9	7815.3	7761.0	8549.8	10029.1	10168.7
35°	13047.1	13029.0	12801.5	12294.5	11223.9	10140.3	9033.5	8666.2	9405.8	11084.3	10996.3
37.5°	13879.9	13848.8	13717.0	13422.1	12687.7	11795.4	10274.8	9594.7	10329.1	12092.8	11702.4
40°	15413.5	15170.4	14717.8	14495.4	14166.9	13189.4	11260.1	10461.0	11286.0	13054.9	12312.6
42.5°	17283.3	16887.6	16044.5	15739.3	15692.8	14288.5	11932.5	11301.5	12250.7	14009.2	12912.7
45°	18754.8	18382.4	17655.7	17270.4	17441.0	15284.2	12607.5	12198.9	13243.7	15010.1	13530.8
47.5°	20324.6	19740.1	18778.1	18894.4	19266.9	16225.5	13295.4	13163.5	14332.5	16129.9	14298.8
50°	20381.5	19934.0	19512.6	20208.2	20787.5	17091.9	14156.6	14174.7	15664.3	17539.3	15320.4
52.5°	19199.6	19103.9	19773.7	20867.7	21703.0	17777.2	15136.8	15219.6	17368.6	19158.2	16442.8
55°	18785.8	18677.2	19450.5	20637.5	21827.1	18343.6	16199.7	16349.6	19429.8	20865.1	17536.8
57.5°	19794.4	19553.9	19605.7	20528.9	21524.5	18964.3	17358.2	17660.8	21669.4	22357.3	18240.1
60°	22613.4	22098.7	21121.1	21097.8	21687.5	19895.3	18697.9	19067.7	23996.9	23071.1	17966.0
62.5°	26567.6	26052.9	24221.9	23029.7	22941.8	21431.4	20342.7	20441.0	25341.8	22103.8	16292.7
65°	30847.7	30387.3	28341.7	26658.1	25846.0	23976.2	22253.9	21053.9	24902.1	19442.7	13365.3
67.5°	36043.3	35549.3	33790.7	32236.5	31455.4	28083.1	23596.1	20466.8	22111.6	15061.7	9607.6
70°	39676.8	39172.5	38479.4	39738.9	41650.1	34007.9	23769.4	18079.8	16515.1	10011.0	5782.6
72.5°	34936.3	34701.0	35965.6	41269.8	49230.0	37602.6	21485.8	13163.5	9592.0	5314.5	3346.5
73°	32008.8	31957.1	34114.0	40196.5	49284.3	37049.2	20484.9	12235.1	8226.6	4701.6	3059.4
75°	14454.0	14870.4	19597.9	30702.8	42819.0	30529.6	14417.8	7018.8	4647.4	3248.2	2309.4
77.5°	3473.2	3618.1	6131.8	14580.7	27040.8	18193.6	6532.7	3470.7	2971.5	2294.0	1686.1
80°	1479.3	1528.4	2361.2	5387.0	12731.6	7326.6	3010.2	2325.0	2056.0	1600.8	1181.9
82.5°	822.4	874.1	1339.7	2443.9	5138.7	2498.3	1836.2	1618.9	1352.5	964.6	768.1
85°	465.5	494.0	783.6	1365.5	2177.6	1003.4	1099.2	1075.8	762.9	496.5	377.6
87.5°	219.8	237.9	377.6	633.6	853.4	393.1	558.6	615.5	478.4	302.6	196.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8128.3	8128.3	8128.3	8128.3	8128.3	8128.3	8128.3	8128.3	8128.3	8128.3
2.5°	8123.2	8169.7	8224.0	8252.5	8278.2	8309.3	8340.3	8340.3	8345.5	8348.1
5°	8066.2	8161.9	8247.2	8283.4	8291.2	8291.2	8283.4	8242.1	8205.9	8221.4
7.5°	7947.2	8086.9	8159.4	8146.4	8048.1	7934.3	7838.7	7722.3	7662.8	7652.4
10°	7776.6	7936.9	7949.9	7820.6	7577.4	7334.4	7132.6	6936.0	6842.9	6819.7
12.5°	7587.7	7735.1	7652.4	7386.0	6995.6	6641.2	6385.3	6186.1	6098.1	6074.9
15°	7435.2	7536.1	7326.6	6907.6	6416.3	6041.2	5829.2	5681.8	5619.7	5601.6
17.5°	7355.0	7375.7	6993.0	6426.6	5904.2	5591.2	5459.4	5389.5	5366.3	5353.3
20°	7393.8	7249.0	6674.9	5979.1	5485.3	5265.4	5234.3	5216.2	5211.1	5203.3
22.5°	7587.7	7210.2	6382.6	5555.0	5118.0	5022.3	5048.2	5045.6	5040.4	5035.3
25°	7934.3	7243.8	6098.1	5151.6	4810.2	4789.6	4836.1	4836.1	4815.4	4815.4
27.5°	8392.1	7313.7	5780.1	4768.9	4531.0	4533.5	4569.7	4559.4	4536.1	4520.6
30°	8950.7	7357.6	5407.6	4424.9	4269.7	4259.4	4269.7	4225.8	4155.9	4150.8
32.5°	9522.2	7303.3	4975.7	4119.7	3993.0	3969.8	3962.0	3899.9	3819.8	3796.5
35°	10039.4	7104.2	4536.1	3876.7	3729.3	3677.5	3713.7	3693.1	3620.6	3602.5
37.5°	10417.0	6734.4	4140.4	3662.0	3540.4	3527.5	3550.8	3558.5	3473.2	3455.1
40°	10670.5	6232.6	3801.7	3481.0	3504.2	3455.1	3377.5	3323.2	3297.4	3289.6
42.5°	10874.8	5710.2	3517.2	3395.6	3512.0	3369.8	3201.6	3113.8	3160.3	3181.0
45°	11110.2	5200.8	3279.3	3289.6	3473.2	3271.5	3080.1	2994.8	3012.9	3018.0
47.5°	11433.4	4580.1	3023.2	3118.9	3343.9	3204.3	3005.1	2883.6	2798.2	2759.4
50°	11880.8	3845.6	2756.9	2927.5	3217.2	3155.1	2888.7	2759.4	2601.7	2565.5
52.5°	12191.1	3160.3	2537.0	2767.2	3103.4	3056.9	2795.6	2627.6	2462.0	2430.9
55°	12023.0	2625.0	2345.6	2588.8	2953.4	2935.3	2718.1	2493.0	2363.7	2337.9
57.5°	11182.5	2286.2	2198.2	2420.6	2769.7	2831.8	2614.6	2379.3	2286.2	2268.1
60°	9579.1	2074.1	2105.1	2306.9	2619.8	2728.4	2511.1	2317.2	2255.1	2242.2
62.5°	7432.6	1931.8	2035.3	2224.1	2503.4	2656.0	2454.3	2309.4	2286.2	2270.6
65°	5324.9	1818.1	1960.3	2141.3	2397.4	2588.8	2433.6	2299.1	2304.3	2291.3
67.5°	3618.1	1717.2	1869.7	2048.3	2294.0	2529.2	2405.2	2262.9	2327.5	2312.0
70°	2531.8	1618.9	1763.8	1929.3	2164.6	2446.5	2353.4	2208.6	2203.4	2141.3
72.5°	1975.8	1489.6	1618.9	1763.8	1999.1	2330.1	2250.0	2087.0	2001.7	1937.1
73°	1885.3	1458.6	1582.7	1727.6	1962.9	2301.6	2221.5	2053.4	1957.7	1898.2
75°	1559.5	1324.1	1437.9	1567.2	1807.8	2167.2	2081.8	1900.8	1779.3	1743.1
77.5°	1225.8	1132.7	1241.4	1357.8	1593.0	1970.6	1875.0	1701.7	1634.5	1603.4
80°	907.8	938.8	1034.5	1137.9	1381.0	1761.2	1675.8	1502.5	1802.5	1727.6
82.5°	638.7	711.2	799.1	892.2	1158.6	1556.8	1453.4	1275.0	1318.9	1096.5
85°	377.6	465.5	548.3	628.4	835.3	1290.5	1200.0	1016.4	832.8	793.9
87.5°	219.8	258.6	281.9	364.7	574.1	972.4	845.7	752.6	431.9	292.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)