

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: P192347

Luminaire Tested: **GLEON-AF-09-LED-E1-T4FT-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192347  
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-09-LED-E1-T4FT-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 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: 58726 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 575  
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

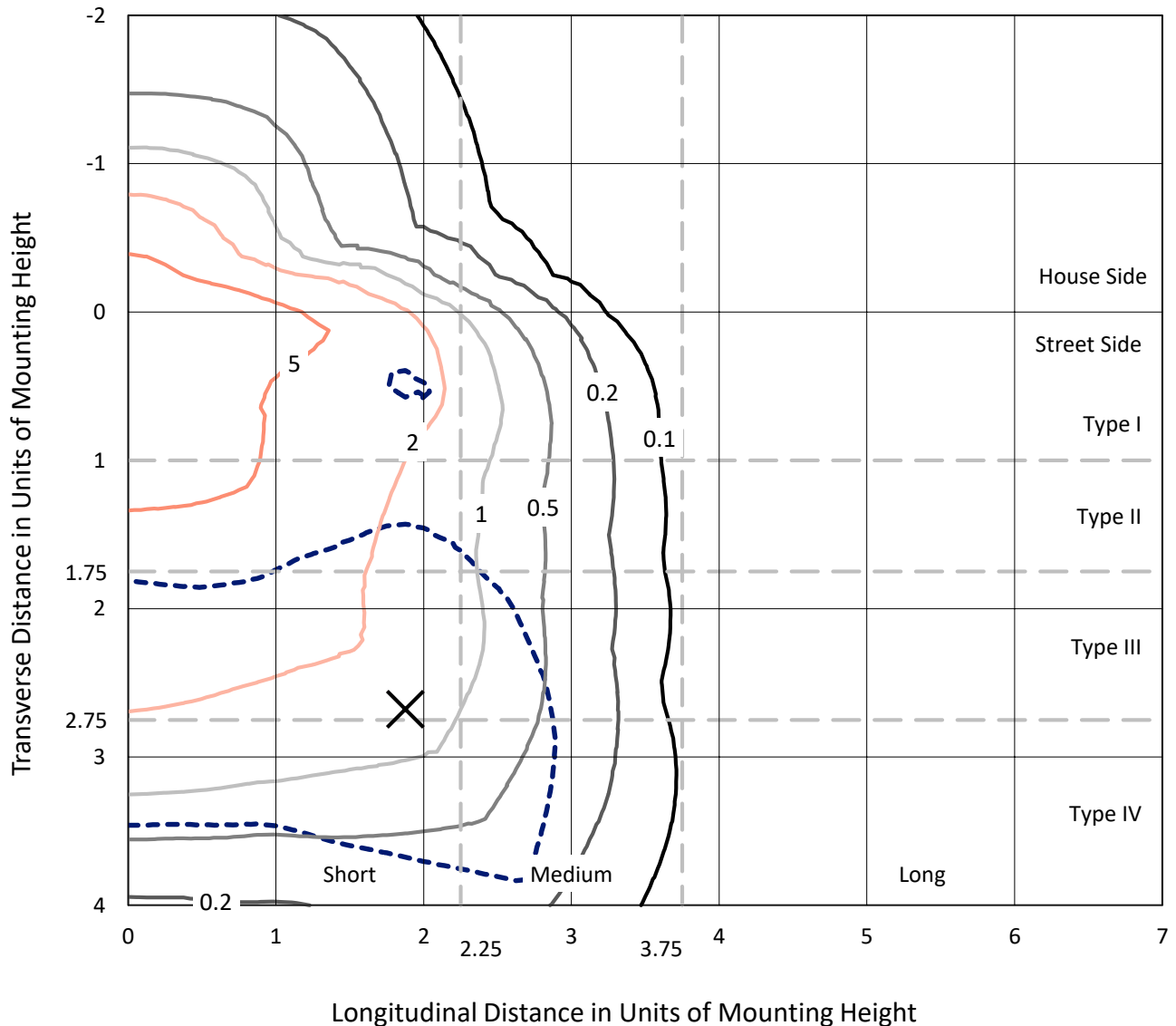


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### Iso-Footcandle Lines of Horizontal Illumination

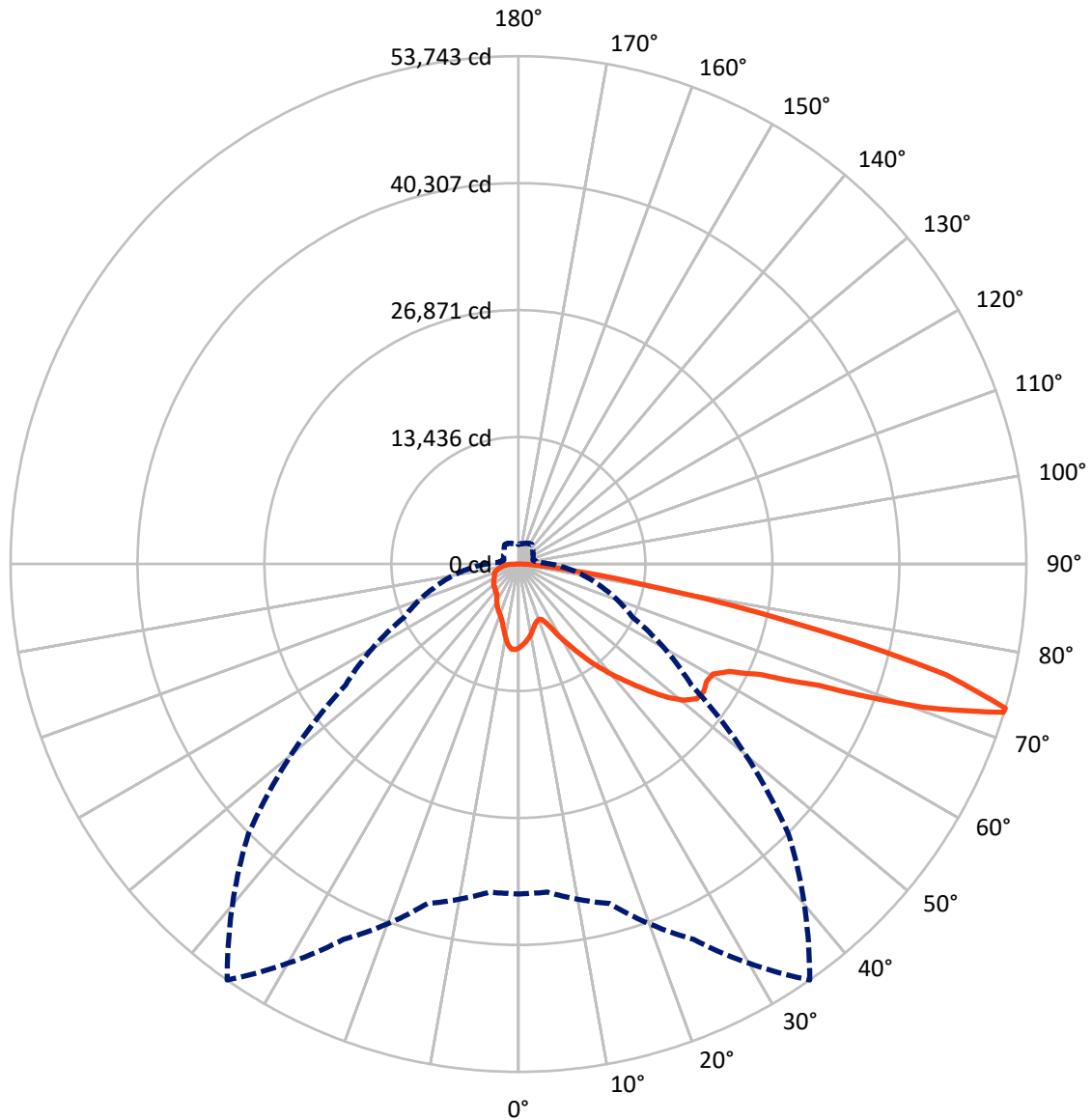
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 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	11200.7	0.0	11200.7
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	47525.3	0.0	47525.3
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	58726.0	0.0	58726.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	802.4	1.4
10°-20°	2002.7	3.4
20°-30°	3237.6	5.5
30°-40°	5429.1	9.2
40°-50°	8368.6	14.3
50°-60°	11227.5	19.1
60°-70°	14957.2	25.5
70°-80°	11407.8	19.4
80°-90°	1293.0	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°	58726.0	100.0
0°-180°	58726.0	100.0



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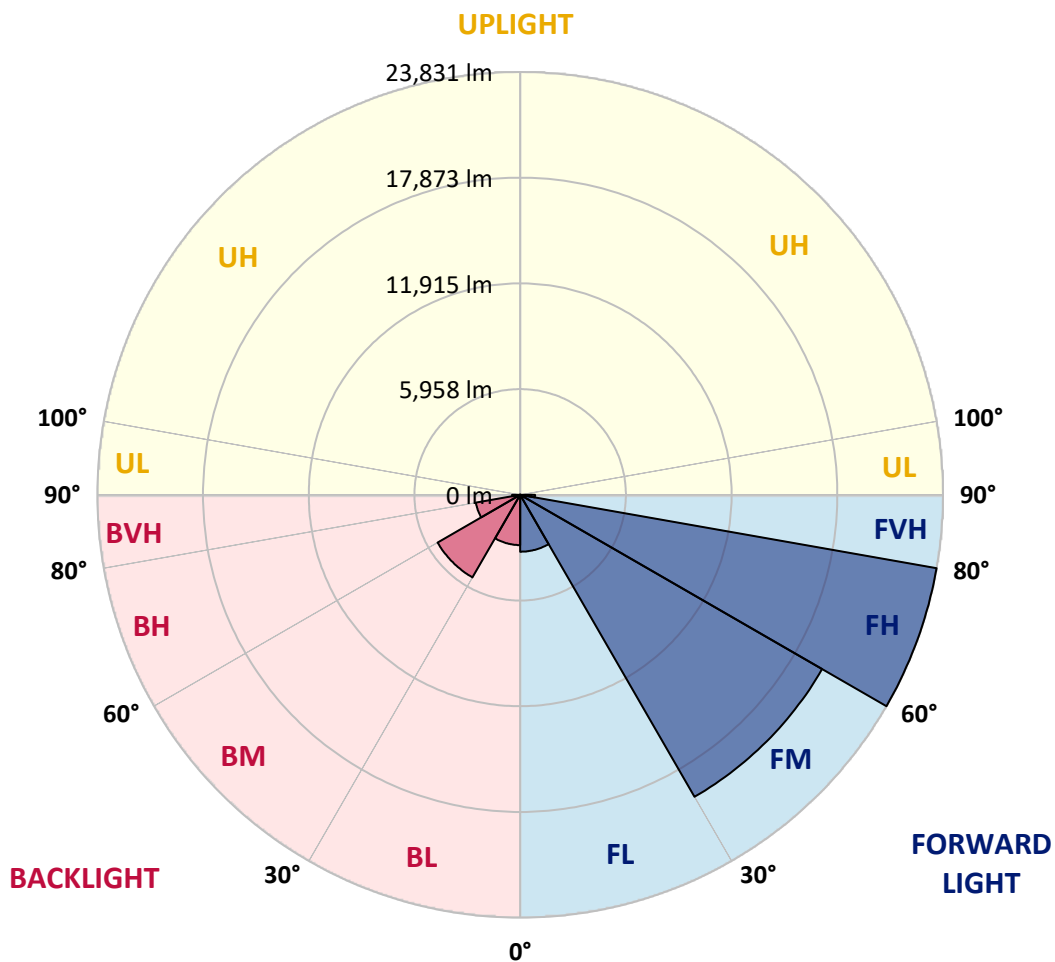
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3208.4	5.5			
FM	(30°-60°)	19650.1	33.5			
FH	(60°-80°)	23831.0	40.6			G5
FVH	(80°-90°)	835.8	1.4			G5
BL	(0°-30°)	2834.3	4.8	B4/5000		
BM	(30°-60°)	5375.1	9.2	B4/8500		
BH	(60°-80°)	2534.1	4.3	B4/5000		G4/5000
BVH	(80°-90°)	457.2	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°	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6
2.5°	8513.9	8530.8	8511.1	8536.4	8578.7	8623.9	8654.9	8700.0	8750.8	8821.3	8838.2
5°	8113.4	8138.8	8138.8	8183.9	8265.7	8339.0	8406.7	8480.0	8587.2	8708.5	8756.4
7.5°	7673.5	7687.6	7713.0	7780.7	7899.1	8003.4	8099.3	8217.8	8364.4	8525.2	8609.8
10°	7143.3	7163.1	7202.5	7298.4	7459.2	7603.0	7741.2	7904.7	8090.9	8291.1	8398.3
12.5°	6768.2	6762.6	6779.5	6850.0	6991.0	7165.9	7366.1	7574.8	7803.2	8037.3	8167.0
15°	6641.3	6610.3	6545.5	6528.5	6604.7	6779.5	7010.8	7267.4	7541.0	7823.0	7983.7
17.5°	6720.3	6666.7	6489.1	6359.3	6348.0	6480.6	6725.9	7013.6	7329.4	7673.5	7873.7
20°	7216.6	7089.7	6652.6	6350.9	6246.5	6311.4	6525.7	6830.3	7202.5	7659.4	7916.0
22.5°	8403.9	8217.8	7290.0	6728.8	6376.2	6297.3	6458.0	6782.3	7216.6	7834.2	8161.4
25°	10132.6	9867.5	8384.2	7670.7	6943.1	6522.9	6559.6	6892.3	7416.9	8240.3	8635.1
27.5°	11497.6	11325.5	9814.0	8998.9	7975.2	7132.0	6889.5	7168.7	7825.8	8905.9	9309.2
30°	12309.7	12205.4	11342.4	10504.9	9292.2	8102.2	7521.2	7687.6	8465.9	9828.1	10160.8
32.5°	13251.7	13189.6	12766.6	11996.7	10713.6	9376.8	8522.3	8463.1	9323.3	10936.4	11088.6
35°	14227.4	14207.7	13959.5	13406.8	12239.2	11057.6	9850.6	9450.2	10256.7	12087.0	11991.1
37.5°	15135.5	15101.6	14957.8	14636.3	13835.4	12862.5	11204.3	10462.6	11263.5	13186.8	12761.0
40°	16807.8	16542.7	16049.2	15806.7	15448.5	14382.5	12278.7	11407.3	12306.9	14235.9	13426.5
42.5°	18846.7	18415.3	17495.9	17163.1	17112.4	15581.1	13011.9	12323.8	13358.8	15276.5	14080.8
45°	20451.4	20045.3	19252.8	18832.6	19018.8	16666.8	13748.0	13302.4	14441.7	16367.9	14754.8
47.5°	22163.2	21525.8	20476.8	20603.7	21009.8	17693.3	14498.1	14354.3	15629.0	17589.0	15592.3
50°	22225.2	21737.3	21277.7	22036.3	22668.0	18638.0	15437.2	15457.0	17081.4	19125.9	16706.3
52.5°	20936.4	20832.1	21562.5	22755.4	23666.3	19385.4	16506.1	16596.3	18939.8	20891.3	17930.2
55°	20485.2	20366.8	21210.0	22504.4	23801.7	20003.0	17665.1	17828.7	21187.4	22752.6	19123.1
57.5°	21585.1	21322.8	21379.2	22386.0	23471.7	20679.8	18928.5	19258.5	23629.6	24379.8	19890.2
60°	24659.0	24097.8	23031.8	23006.4	23649.4	21695.0	20389.3	20792.6	26167.7	25158.1	19591.2
62.5°	28970.9	28409.7	26413.1	25113.0	25017.1	23370.2	22182.9	22290.1	27634.2	24103.4	17766.6
65°	33638.2	33136.2	30905.5	29069.6	28184.1	26145.2	24267.0	22958.4	27154.8	21201.5	14574.3
67.5°	39303.7	38765.1	36847.4	35152.6	34300.9	30623.5	25730.6	22318.3	24111.9	16424.3	10476.7
70°	43266.0	42716.1	41960.3	43333.7	45417.7	37084.3	25919.5	19715.3	18009.2	10916.6	6305.7
72.5°	38096.7	37840.1	39219.1	45003.2	53683.4	41004.3	23429.4	14354.3	10459.8	5795.3	3649.2
73°	34904.4	34848.0	37200.0	43832.8	53742.7	40400.8	22338.0	13341.9	8970.7	5126.9	3336.2
75°	15761.5	16215.6	21370.7	33480.2	46692.4	33291.3	15722.1	7653.8	5067.7	3542.0	2518.4
77.5°	3787.4	3945.3	6686.5	15899.7	29487.0	19839.4	7123.6	3784.6	3240.3	2501.4	1838.7
80°	1613.1	1666.7	2574.8	5874.3	13883.4	7989.3	3282.6	2535.3	2242.0	1745.6	1288.8
82.5°	896.8	953.2	1460.8	2665.0	5603.5	2724.2	2002.3	1765.4	1474.9	1051.9	837.6
85°	507.6	538.6	854.5	1489.0	2374.5	1094.2	1198.5	1173.2	831.9	541.5	411.7
87.5°	239.7	259.4	411.7	690.9	930.6	428.7	609.1	671.2	521.7	330.0	214.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6
2.5°	8857.9	8908.7	8967.9	8998.9	9027.1	9061.0	9094.8	9094.8	9100.5	9103.3
5°	8795.9	8900.2	8993.3	9032.8	9041.2	9041.2	9032.8	8987.7	8948.2	8965.1
7.5°	8666.2	8818.5	8897.4	8883.3	8776.2	8652.1	8547.7	8420.8	8356.0	8344.7
10°	8480.0	8654.9	8669.0	8528.0	8262.9	7997.8	7777.8	7563.5	7462.0	7436.6
12.5°	8274.2	8434.9	8344.7	8054.2	7628.4	7242.0	6962.8	6745.7	6649.8	6624.4
15°	8107.8	8217.8	7989.3	7532.5	6996.7	6587.8	6356.5	6195.8	6128.1	6108.3
17.5°	8020.4	8042.9	7625.6	7008.0	6438.3	6097.1	5953.2	5877.1	5851.7	5837.6
20°	8062.7	7904.7	7278.7	6520.1	5981.4	5741.7	5707.9	5688.1	5682.5	5674.0
22.5°	8274.2	7862.4	6960.0	6057.6	5581.0	5476.6	5504.8	5502.0	5496.4	5490.7
25°	8652.1	7899.1	6649.8	5617.6	5245.4	5222.8	5273.6	5273.6	5251.0	5251.0
27.5°	9151.2	7975.2	6302.9	5200.3	4940.8	4943.6	4983.1	4971.8	4946.5	4929.5
30°	9760.4	8023.2	5896.8	4825.2	4656.0	4644.7	4656.0	4608.0	4531.9	4526.3
32.5°	10383.6	7964.0	5425.9	4492.4	4354.2	4328.9	4320.4	4252.7	4165.3	4139.9
35°	10947.6	7746.8	4946.5	4227.3	4066.6	4010.2	4049.7	4027.1	3948.1	3928.4
37.5°	11359.4	7343.5	4515.0	3993.3	3860.7	3846.6	3872.0	3880.5	3787.4	3767.7
40°	11635.7	6796.4	4145.5	3795.9	3821.2	3767.7	3683.1	3623.8	3595.6	3587.2
42.5°	11858.5	6226.8	3835.3	3702.8	3829.7	3674.6	3491.3	3395.4	3446.2	3468.7
45°	12115.2	5671.2	3575.9	3587.2	3787.4	3567.4	3358.7	3265.7	3285.4	3291.1
47.5°	12467.7	4994.4	3296.7	3401.0	3646.4	3494.1	3277.0	3144.4	3051.3	3009.0
50°	12955.5	4193.5	3006.2	3192.4	3508.2	3440.5	3150.1	3009.0	2837.0	2797.5
52.5°	13294.0	3446.2	2766.5	3017.5	3384.1	3333.4	3048.5	2865.2	2684.7	2650.9
55°	13110.6	2862.4	2557.8	2822.9	3220.6	3200.8	2963.9	2718.6	2577.6	2549.4
57.5°	12194.1	2493.0	2397.1	2639.6	3020.3	3088.0	2851.1	2594.5	2493.0	2473.2
60°	10445.7	2261.7	2295.6	2515.5	2856.8	2975.2	2738.3	2526.8	2459.1	2445.0
62.5°	8105.0	2106.6	2219.4	2425.3	2729.9	2896.2	2676.3	2518.4	2493.0	2476.0
65°	5806.6	1982.5	2137.6	2335.0	2614.2	2822.9	2653.7	2507.1	2512.7	2498.6
67.5°	3945.3	1872.5	2038.9	2233.5	2501.4	2758.1	2622.7	2467.6	2538.1	2521.2
70°	2760.9	1765.4	1923.3	2103.8	2360.4	2667.8	2566.3	2408.4	2402.7	2335.0
72.5°	2154.6	1624.4	1765.4	1923.3	2179.9	2540.9	2453.5	2275.8	2182.8	2112.3
73°	2055.9	1590.5	1725.9	1883.8	2140.5	2509.9	2422.5	2239.2	2134.8	2070.0
75°	1700.5	1443.9	1568.0	1709.0	1971.3	2363.2	2270.2	2072.8	1940.2	1900.7
77.5°	1336.7	1235.2	1353.6	1480.6	1737.2	2148.9	2044.6	1855.6	1782.3	1748.5
80°	989.9	1023.7	1128.0	1240.8	1505.9	1920.5	1827.4	1638.5	1965.6	1883.8
82.5°	696.6	775.5	871.4	972.9	1263.4	1697.7	1584.9	1390.3	1438.3	1195.7
85°	411.7	507.6	597.9	685.3	910.9	1407.2	1308.5	1108.3	908.1	865.8
87.5°	239.7	282.0	307.4	397.6	626.1	1060.4	922.2	820.6	471.0	318.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)