

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: P194034

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29702 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

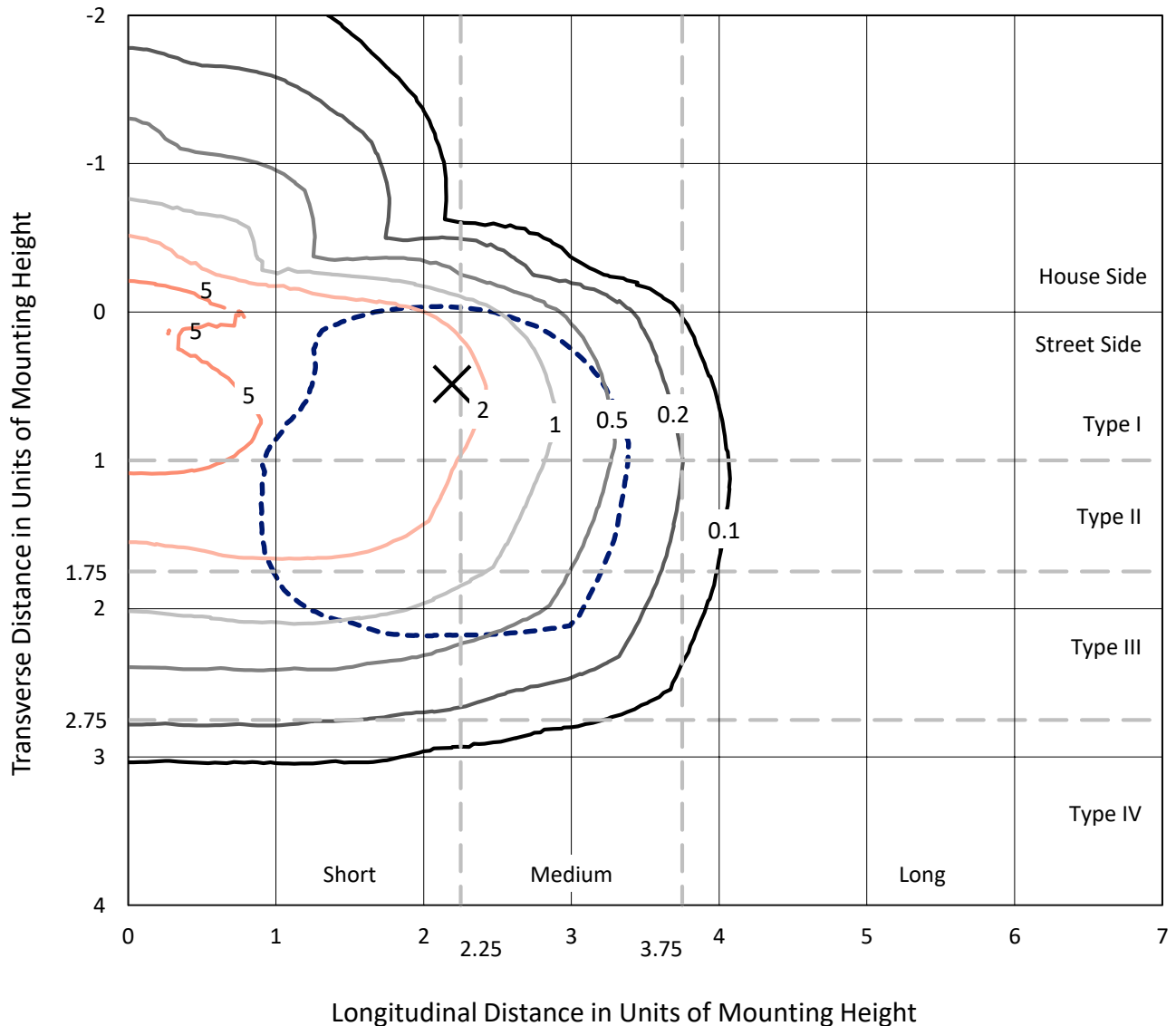
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

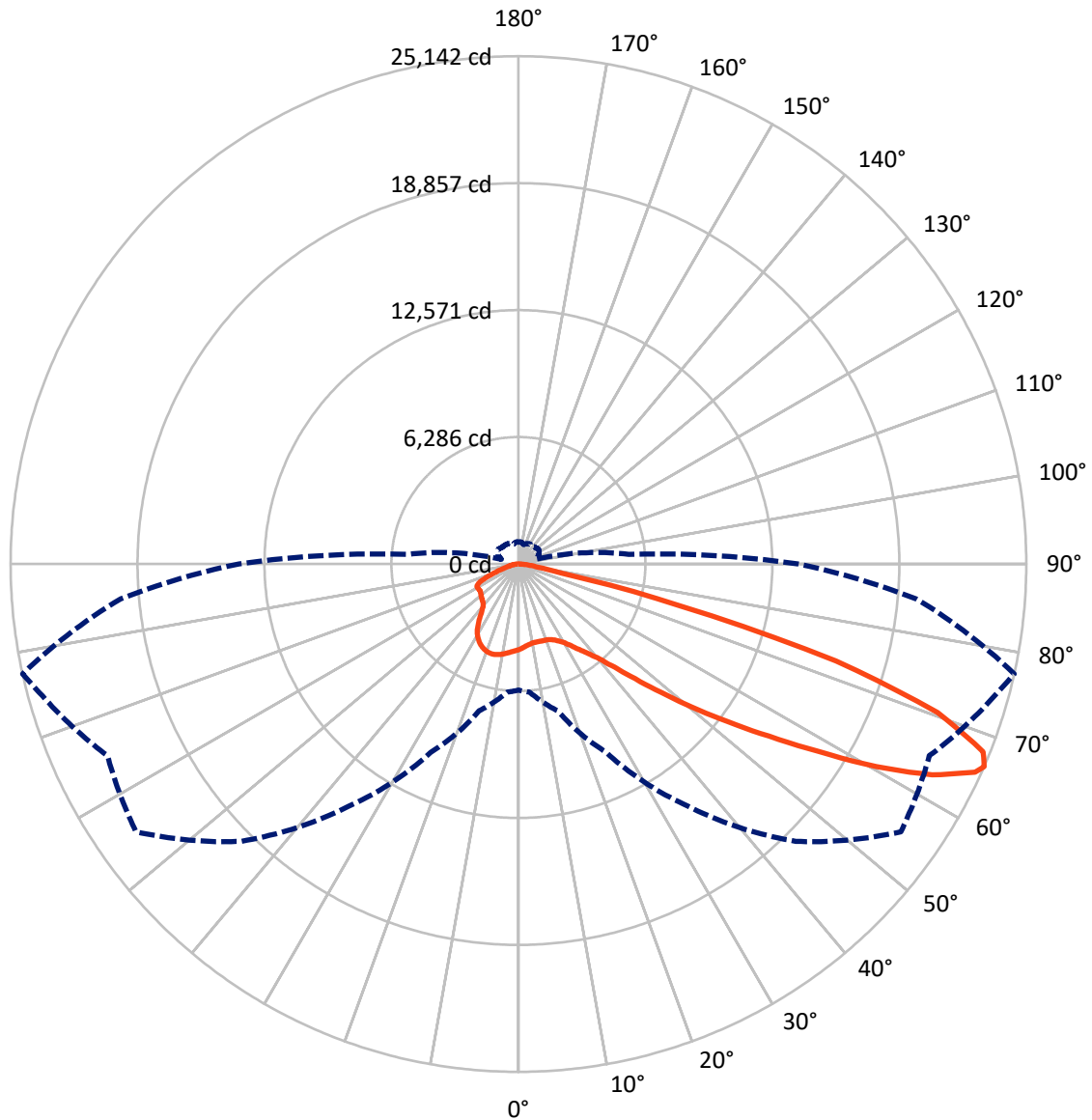
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5074.4	0.0	5074.4
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	24627.6	0.0	24627.6
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	29702.0	0.0	29702.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.2	1.3
10°-20°	1066.8	3.6
20°-30°	1820.7	6.1
30°-40°	2914.6	9.8
40°-50°	4502.9	15.2
50°-60°	6386.6	21.5
60°-70°	8543.5	28.8
70°-80°	3710.3	12.5
80°-90°	378.3	1.3
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°	29702.0	100.0
0°-180°	29702.0	100.0



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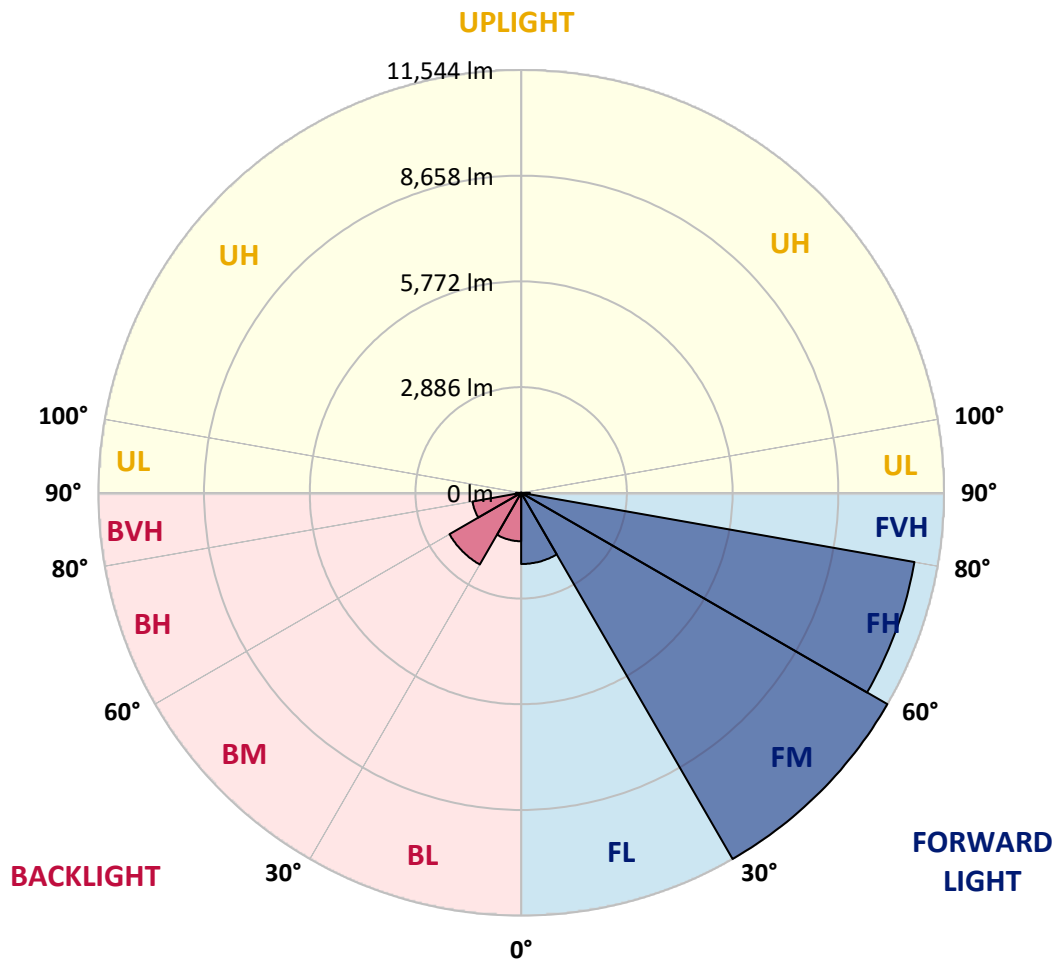
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1944.1	6.5			
FM	(30°-60°)	11543.7	38.9			
FH	(60°-80°)	10902.4	36.7			G4/12000
FVH	(80°-90°)	237.3	0.8			G3/500
BL	(0°-30°)	1321.6	4.4	B3/2500		
BM	(30°-60°)	2260.4	7.6	B2/2500		
BH	(60°-80°)	1351.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	141.0	0.5			G2/225
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7
2.5°	3744.3	3769.6	3790.6	3810.3	3849.5	3914.1	3988.5	4048.8	4135.8	4152.7	4199.0
5°	3400.5	3400.5	3417.3	3446.8	3500.1	3596.9	3698.0	3832.7	4022.2	4067.1	4190.6
7.5°	3233.5	3234.9	3244.7	3269.9	3316.3	3404.7	3515.5	3674.1	3930.9	4005.3	4215.8
10°	3295.2	3281.2	3260.1	3247.5	3254.5	3306.4	3411.7	3588.5	3874.8	3970.2	4272.0
12.5°	3640.4	3613.8	3540.8	3444.0	3351.3	3313.4	3375.2	3547.8	3850.9	3961.8	4346.4
15°	4204.6	4193.4	4057.3	3856.6	3632.0	3444.0	3401.9	3532.4	3853.8	3971.6	4434.8
17.5°	4911.9	4896.5	4716.9	4424.9	4058.7	3692.4	3495.9	3545.0	3863.6	3988.5	4520.4
20°	5626.3	5578.5	5384.9	5036.8	4566.7	4030.6	3651.7	3577.3	3876.2	4006.7	4610.2
22.5°	6159.6	6120.3	5946.2	5608.0	5066.3	4422.1	3860.8	3633.4	3916.9	4060.1	4721.1
25°	6628.3	6631.1	6458.5	6131.5	5571.5	4837.5	4130.2	3783.6	4020.8	4169.5	4872.6
27.5°	7207.9	7174.2	7012.8	6688.6	6071.1	5257.2	4455.8	3989.9	4175.1	4325.3	5071.9
30°	7901.2	7877.3	7690.7	7323.0	6625.5	5707.7	4827.7	4229.9	4374.4	4530.2	5332.9
32.5°	8716.6	8705.3	8511.7	8038.7	7265.4	6238.1	5264.2	4547.0	4671.9	4833.3	5707.7
35°	9673.7	9675.1	9446.3	8878.0	7965.7	6855.6	5759.6	4955.4	5034.0	5202.4	6153.9
37.5°	10263.1	10334.7	10249.1	9669.5	8758.7	7546.1	6402.3	5497.1	5446.6	5616.4	6632.5
40°	10389.4	10476.4	10747.3	10452.6	9645.6	8306.8	6972.1	6017.8	5954.7	6162.4	7248.6
42.5°	10212.6	10333.3	10905.9	11113.6	10587.3	9244.2	7738.4	6791.1	6711.1	6990.4	8014.9
45°	10107.3	10197.2	10859.6	11457.4	11404.1	10303.8	8713.8	7762.2	7732.8	8099.1	8899.0
47.5°	9924.9	10006.3	10643.4	11537.4	11884.1	11275.0	9885.6	8949.5	9007.1	9487.0	9896.8
50°	10023.1	10056.8	10402.1	11333.9	12023.0	11986.5	11195.0	10324.9	10521.3	11120.6	11026.6
52.5°	10009.1	10096.1	10374.0	10999.9	12041.2	12425.8	12484.7	11858.8	12272.8	12960.5	12279.8
55°	8092.0	8252.0	10044.2	10915.7	12105.8	12856.6	13632.7	13475.5	14247.4	15048.7	13694.4
57.5°	7727.2	7828.2	8821.8	11092.5	12448.2	13679.0	14909.8	15255.0	16546.2	17476.6	15417.8
60°	7655.6	7780.5	8809.2	11308.7	13142.9	15019.3	16803.0	17409.3	19343.2	20362.0	17416.3
62.5°	7432.4	7567.2	8726.4	11280.6	14129.5	16873.2	19226.7	19699.6	21995.6	22986.4	19087.7
65°	6725.1	6851.4	8051.3	10827.3	14794.7	18852.0	22095.2	21799.1	24089.5	24834.7	19921.4
66°	6241.0	6364.5	7519.5	10294.0	14640.3	19413.3	23111.3	22448.9	24558.2	25142.0	19758.6
67.5°	5355.4	5452.2	6486.5	9099.7	13819.4	19570.5	23966.0	22937.3	24607.3	24813.6	18828.1
70°	3383.6	3411.7	4215.8	6281.7	10461.0	16972.8	22665.0	21724.7	22578.0	22019.5	15784.1
72.5°	1468.0	1458.1	2023.7	3195.6	5922.4	11388.6	18334.1	17925.7	17711.0	16436.7	11049.0
75°	816.8	828.0	1051.2	1483.4	2406.8	5594.0	11993.5	11477.1	9690.5	8268.9	5010.2
77.5°	655.4	670.8	871.5	1052.6	1080.6	1950.7	5612.2	4566.7	2749.3	2206.2	1392.2
80°	517.9	545.9	760.6	819.6	728.4	804.2	1813.2	1449.7	1087.6	997.8	721.4
82.5°	409.8	429.4	652.6	620.3	509.4	541.7	868.7	846.3	707.3	644.2	416.8
85°	294.7	331.2	536.1	467.3	334.0	364.9	576.8	552.9	405.6	331.2	183.8
87.5°	120.7	157.2	378.9	310.2	186.7	169.8	287.7	270.9	192.3	140.3	91.2
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°	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7	4232.7
2.5°	4228.5	4262.1	4305.7	4332.3	4346.4	4356.2	4371.6	4370.2	4374.4	4375.8	4381.4
5°	4256.5	4312.7	4375.8	4392.7	4392.7	4377.2	4361.8	4336.5	4326.7	4323.9	4326.7
7.5°	4329.5	4391.3	4446.0	4426.3	4384.2	4322.5	4242.5	4172.3	4134.4	4121.8	4119.0
10°	4422.1	4496.5	4519.0	4444.6	4321.1	4172.3	4013.7	3898.7	3832.7	3814.5	3808.8
12.5°	4534.4	4604.6	4573.7	4416.5	4187.8	3947.8	3728.9	3545.0	3407.5	3364.0	3361.2
15°	4657.9	4712.6	4604.6	4329.5	3988.5	3634.8	3244.7	2927.5	2756.3	2701.6	2697.3
17.5°	4773.0	4801.1	4586.3	4177.9	3695.2	3122.6	2604.7	2360.5	2301.6	2315.6	2318.4
20°	4871.2	4871.2	4524.6	3960.4	3233.5	2447.5	2120.5	2116.3	2158.4	2200.5	2209.0
22.5°	4979.3	4914.7	4416.5	3653.1	2579.5	2002.7	1954.9	1994.2	2042.0	2088.3	2095.3
25°	5112.6	4949.8	4266.4	3187.1	2027.9	1818.8	1837.1	1869.3	1893.2	1922.7	1926.9
27.5°	5261.4	4994.7	4068.5	2545.8	1759.9	1703.7	1717.8	1729.0	1726.2	1737.4	1740.2
30°	5439.6	5046.7	3797.6	1990.0	1649.0	1605.5	1580.2	1570.4	1570.4	1588.7	1595.7
32.5°	5678.2	5123.8	3408.9	1705.1	1595.7	1535.3	1453.9	1417.4	1431.5	1493.2	1507.3
35°	5940.6	5206.6	2882.6	1608.3	1584.4	1503.0	1376.7	1309.4	1310.8	1368.3	1386.6
37.5°	6226.9	5311.9	2305.8	1590.1	1609.7	1504.5	1336.0	1243.4	1205.5	1205.5	1212.5
40°	6593.2	5420.0	1866.5	1602.7	1663.0	1521.3	1315.0	1191.5	1084.8	1087.6	1093.3
42.5°	7070.4	5512.6	1630.8	1629.4	1727.6	1543.7	1313.6	1122.7	1030.1	1093.3	1150.8
45°	7600.9	5558.9	1526.9	1653.2	1779.5	1557.8	1291.1	1111.5	1037.1	1225.2	1334.6
47.5°	8211.3	5532.2	1469.4	1661.6	1792.2	1557.8	1265.9	1138.2	1086.2	1418.8	1546.6
50°	8880.8	5455.0	1413.2	1644.8	1787.9	1555.0	1289.7	1164.8	1104.5	1452.5	1540.9
52.5°	9668.1	5390.5	1354.3	1608.3	1758.5	1539.5	1317.8	1153.6	1046.9	1320.6	1382.4
55°	10566.3	5408.7	1288.3	1556.4	1712.2	1510.1	1308.0	1108.7	986.6	1163.4	1201.3
57.5°	11714.2	5626.3	1209.7	1490.4	1649.0	1460.9	1272.9	1087.6	968.4	1055.4	1077.8
60°	12995.6	6005.2	1111.5	1424.5	1570.4	1382.4	1246.2	1097.5	976.8	1046.9	1058.2
62.5°	13935.8	6225.5	1027.3	1327.6	1463.8	1295.3	1212.5	1110.1	999.2	1076.4	1073.6
65°	14191.3	5863.4	922.0	1185.9	1319.2	1204.1	1170.4	1124.1	1009.0	1100.3	1087.6
66°	13833.4	5473.3	875.7	1119.9	1246.2	1159.2	1149.4	1122.7	1004.8	1103.1	1082.0
67.5°	12964.7	4673.3	795.7	1023.1	1129.7	1091.9	1115.7	1110.1	993.6	1100.3	1070.8
70°	10573.3	3188.5	680.7	851.9	940.3	961.3	1051.2	1065.2	957.1	1051.2	986.6
72.5°	7387.5	1942.3	602.1	661.0	760.6	819.6	962.7	1003.4	908.0	917.8	856.1
75°	3570.3	1031.5	545.9	512.2	590.8	684.9	856.1	919.2	830.8	767.7	745.2
77.5°	1112.9	630.1	463.1	412.6	463.1	552.9	715.7	805.6	739.6	642.8	634.3
80°	597.9	463.1	356.5	331.2	366.3	433.7	562.8	672.2	635.7	576.8	515.1
82.5°	394.4	300.3	263.8	256.8	279.3	331.2	418.2	557.2	557.2	494.0	359.3
85°	203.5	183.8	181.0	181.0	195.1	220.3	284.9	429.4	457.5	261.0	216.1
87.5°	101.0	105.3	98.2	102.4	109.5	108.1	136.1	216.1	258.2	158.6	131.9
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)