

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: P194044

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194044  
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-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32583 lumens  
Efficiency: N/A  
Efficacy: 85.3 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): 382  
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

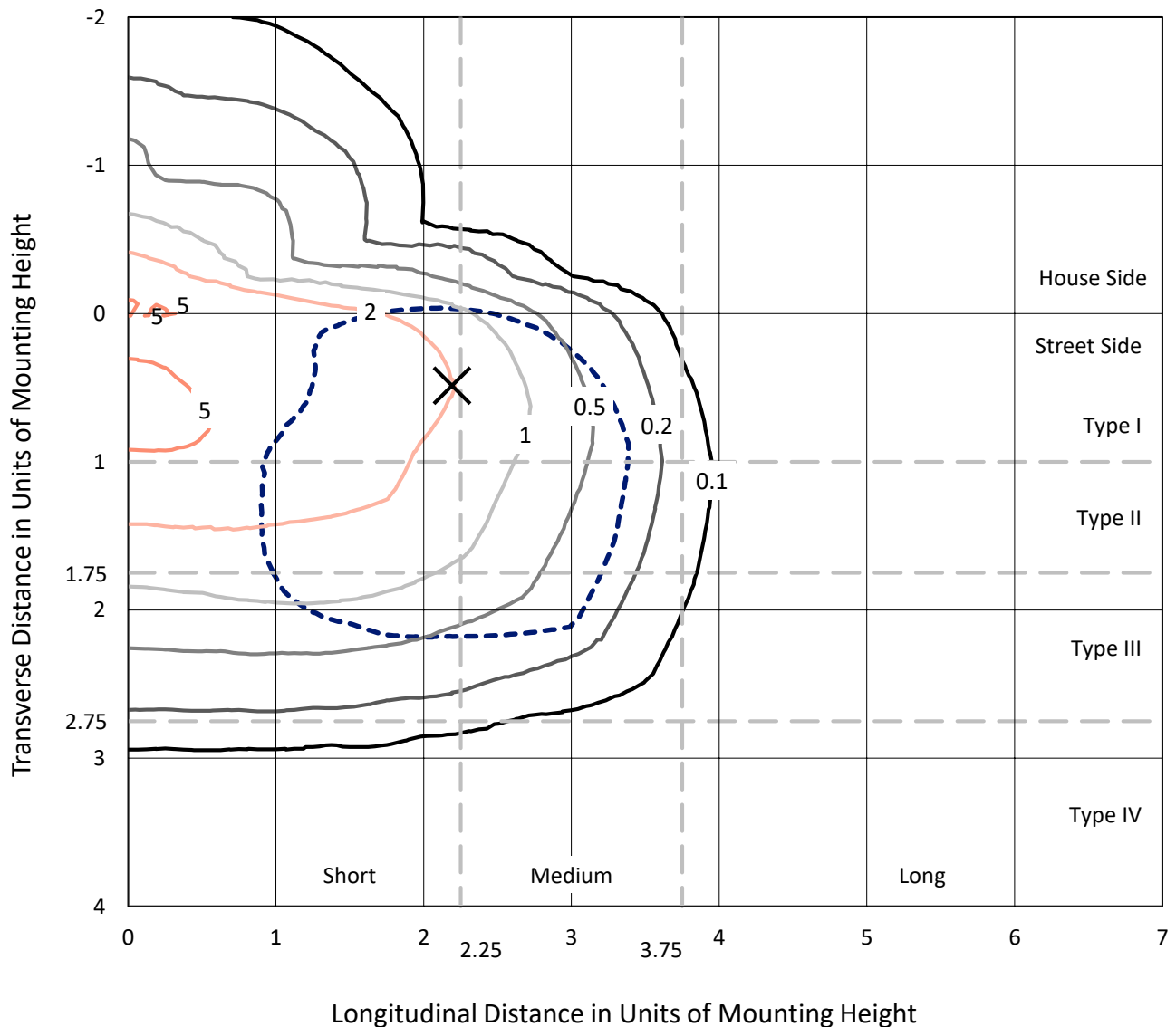


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

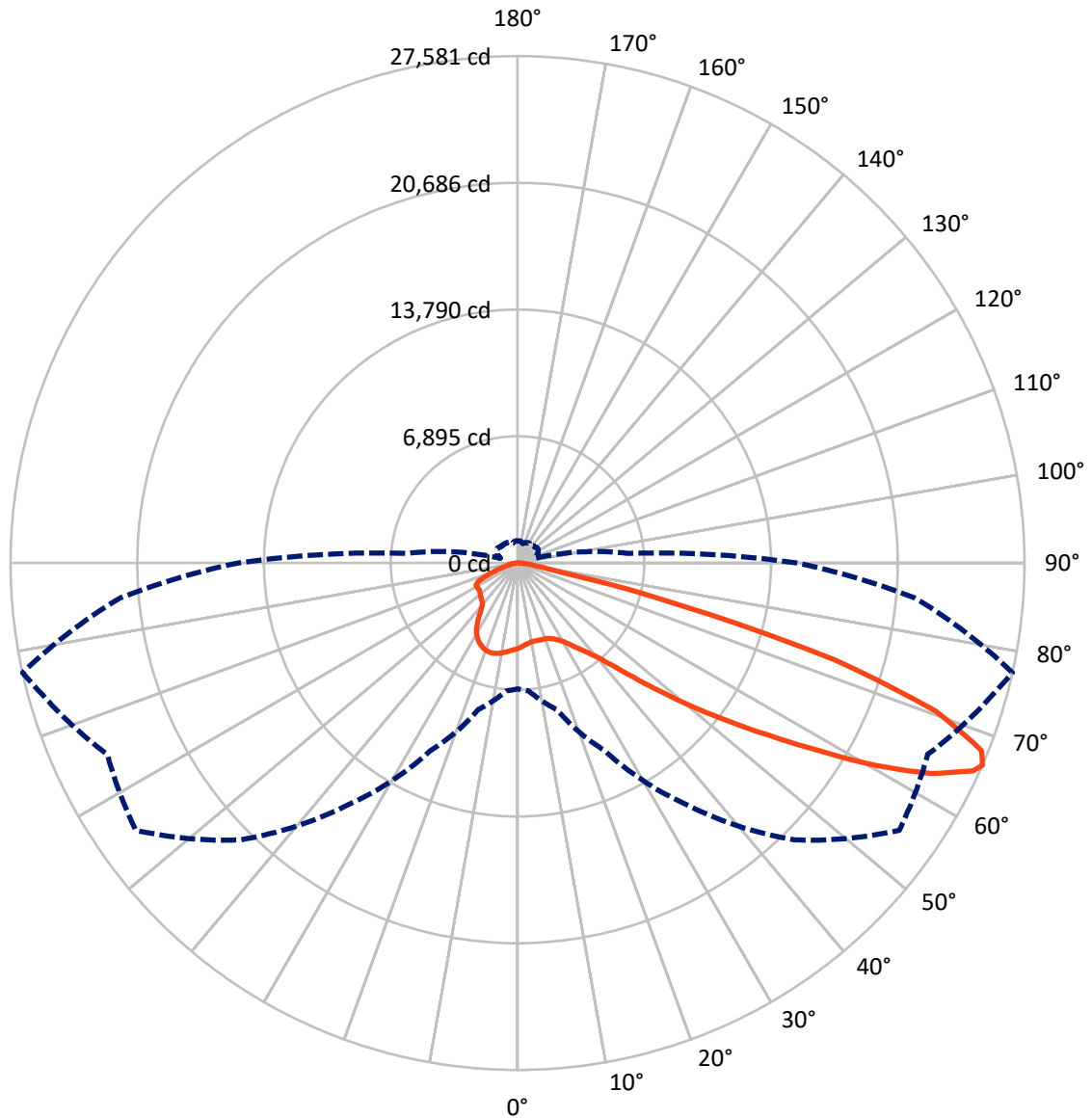


Based on 30 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - Full Cutoff

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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	5566.6	0.0	5566.6
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	27016.4	0.0	27016.4
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	32583.0	0.0	32583.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.8	1.3
10°-20°	1170.3	3.6
20°-30°	1997.3	6.1
30°-40°	3197.4	9.8
40°-50°	4939.6	15.2
50°-60°	7006.1	21.5
60°-70°	9372.2	28.8
70°-80°	4070.2	12.5
80°-90°	415.0	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°	32583.0	100.0
0°-180°	32583.0	100.0



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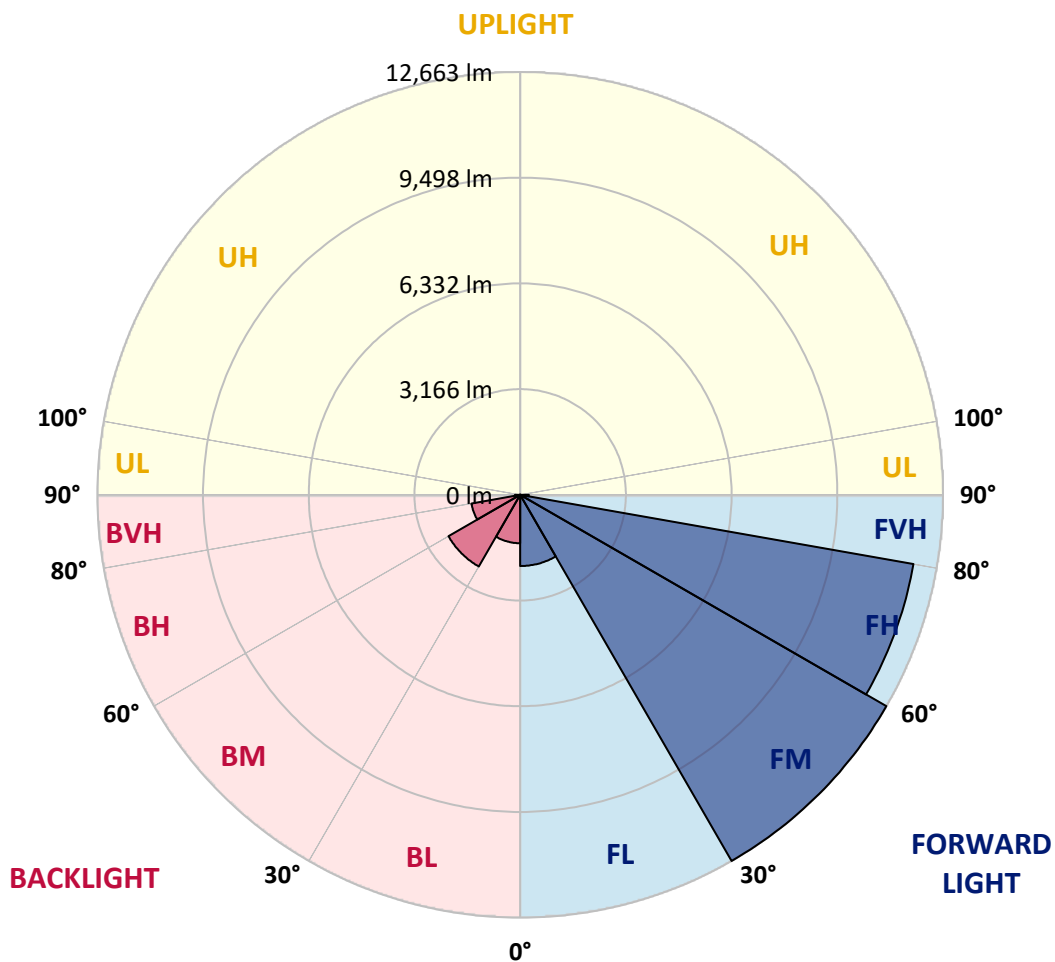
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2132.7	6.5			
FM (30°-60°)	12663.5	38.9			
FH (60°-80°)	11959.9	36.7			G4/12000
FVH (80°-90°)	260.3	0.8			G3/500
BL (0°-30°)	1449.8	4.4	B3/2500		
BM (30°-60°)	2479.6	7.6	B2/2500		
BH (60°-80°)	1482.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	154.7	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°	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2
2.5°	4107.5	4135.2	4158.3	4179.8	4222.9	4293.8	4375.4	4441.6	4537.0	4555.5	4606.3
5°	3730.3	3730.3	3748.8	3781.1	3839.6	3945.8	4056.7	4204.5	4412.3	4461.6	4597.0
7.5°	3547.1	3548.6	3559.4	3587.1	3637.9	3734.9	3856.5	4030.5	4312.2	4393.8	4624.8
10°	3614.8	3599.4	3576.3	3562.5	3570.2	3627.1	3742.6	3936.6	4250.7	4355.3	4686.3
12.5°	3993.5	3964.3	3884.2	3778.0	3676.4	3634.8	3702.6	3891.9	4224.5	4346.1	4767.9
15°	4612.4	4600.1	4450.8	4230.6	3984.3	3778.0	3731.8	3875.0	4227.6	4356.9	4864.9
17.5°	5388.4	5371.4	5174.4	4854.1	4452.3	4050.5	3835.0	3888.9	4238.3	4375.4	4958.8
20°	6172.0	6119.6	5907.2	5525.4	5009.6	4421.5	4005.9	3924.3	4252.2	4395.4	5057.4
22.5°	6757.0	6713.9	6523.0	6152.0	5557.7	4851.1	4235.3	3985.9	4296.8	4453.9	5179.0
25°	7271.2	7274.3	7084.9	6726.2	6111.9	5306.8	4530.8	4150.6	4410.8	4574.0	5345.3
27.5°	7907.0	7870.1	7693.0	7337.4	6660.0	5767.1	4888.0	4376.9	4580.1	4744.8	5563.9
30°	8667.6	8641.4	8436.6	8033.3	7268.1	6261.3	5296.0	4640.2	4798.7	4969.6	5850.2
32.5°	9562.0	9549.7	9337.3	8818.4	7970.2	6843.2	5774.8	4988.1	5125.1	5302.2	6261.3
35°	10612.0	10613.5	10362.6	9739.1	8738.4	7520.6	6318.2	5436.1	5522.3	5707.0	6750.9
37.5°	11258.6	11337.1	11243.2	10607.4	9608.2	8278.1	7023.4	6030.4	5974.9	6161.2	7275.8
40°	11397.2	11492.6	11789.7	11466.4	10581.2	9112.5	7648.4	6601.5	6532.2	6760.1	7951.7
42.5°	11203.2	11335.6	11963.7	12191.6	11614.2	10140.9	8489.0	7449.8	7362.0	7668.4	8792.3
45°	11087.7	11186.2	11912.9	12568.7	12510.2	11303.3	9559.0	8515.2	8482.8	8884.6	9762.2
47.5°	10887.6	10976.9	11675.8	12656.5	13036.8	12368.6	10844.5	9817.6	9880.7	10407.2	10856.8
50°	10995.3	11032.3	11411.0	12433.3	13189.2	13149.2	12280.9	11326.3	11541.9	12199.3	12096.1
52.5°	10980.0	11075.4	11380.2	12066.9	13209.2	13631.0	13695.7	13009.1	13463.2	14217.6	13470.9
55°	8876.9	9052.5	11018.4	11974.5	13280.0	14103.7	14955.0	14782.6	15629.3	16508.4	15022.8
57.5°	8476.7	8587.5	9677.5	12168.5	13655.7	15005.8	16356.0	16734.7	18151.1	19171.8	16913.3
60°	8398.2	8535.2	9663.7	12405.6	14417.7	16476.1	18432.8	19097.9	21219.4	22337.1	19105.6
62.5°	8153.4	8301.2	9572.8	12374.8	15500.0	18509.8	21091.6	21610.4	24129.1	25216.0	20939.2
65°	7377.4	7516.0	8832.3	11877.5	16229.8	20680.6	24238.4	23913.6	26426.1	27243.6	21853.7
66°	6846.3	6981.8	8248.8	11292.5	16060.4	21296.4	25353.0	24626.4	26940.3	27580.7	21675.1
67.5°	5874.9	5981.1	7115.7	9982.3	15159.8	21468.8	26290.6	25162.1	26994.2	27220.5	20654.4
70°	3711.8	3742.6	4624.8	6891.0	11475.7	18619.1	24863.5	23832.0	24768.0	24155.3	17315.1
72.5°	1610.4	1599.6	2220.0	3505.5	6496.8	12493.3	20112.5	19664.5	19428.9	18031.0	12120.7
75°	896.0	908.3	1153.1	1627.3	2640.3	6136.6	13156.9	12590.3	10630.5	9070.9	5496.1
77.5°	719.0	735.9	956.1	1154.6	1185.4	2140.0	6156.6	5009.6	3015.9	2420.1	1527.2
80°	568.1	598.9	834.4	899.1	799.0	882.2	1989.1	1590.3	1193.1	1094.6	791.3
82.5°	449.5	471.1	715.9	680.5	558.9	594.3	953.0	928.3	775.9	706.6	457.2
85°	323.3	363.3	588.1	512.7	366.4	400.3	632.7	606.6	444.9	363.3	201.7
87.5°	132.4	172.4	415.7	340.2	204.8	186.3	315.6	297.1	210.9	154.0	100.1
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°	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2	4643.2
2.5°	4638.6	4675.6	4723.3	4752.5	4767.9	4778.7	4795.6	4794.1	4798.7	4800.3	4806.4
5°	4669.4	4731.0	4800.3	4818.7	4818.7	4801.8	4784.9	4757.2	4746.4	4743.3	4746.4
7.5°	4749.5	4817.2	4877.2	4855.7	4809.5	4741.8	4654.0	4577.0	4535.5	4521.6	4518.5
10°	4851.1	4932.7	4957.3	4875.7	4740.2	4577.0	4403.1	4276.8	4204.5	4184.5	4178.3
12.5°	4974.2	5051.2	5017.3	4844.9	4594.0	4330.7	4090.5	3888.9	3738.0	3690.3	3687.2
15°	5109.7	5169.8	5051.2	4749.5	4375.4	3987.4	3559.4	3211.5	3023.6	2963.6	2959.0
17.5°	5236.0	5266.7	5031.2	4583.2	4053.6	3425.5	2857.4	2589.5	2524.8	2540.2	2543.3
20°	5343.7	5343.7	4963.5	4344.6	3547.1	2684.9	2326.2	2321.6	2367.8	2414.0	2423.2
22.5°	5462.3	5391.4	4844.9	4007.4	2829.7	2196.9	2144.6	2187.7	2240.0	2290.8	2298.5
25°	5608.5	5429.9	4680.2	3496.3	2224.6	1995.2	2015.2	2050.7	2076.8	2109.2	2113.8
27.5°	5771.7	5479.2	4463.1	2792.7	1930.6	1869.0	1884.4	1896.7	1893.6	1905.9	1909.0
30°	5967.2	5536.2	4166.0	2183.1	1809.0	1761.2	1733.5	1722.7	1722.7	1742.8	1750.4
32.5°	6229.0	5620.8	3739.5	1870.5	1750.4	1684.2	1595.0	1554.9	1570.3	1638.1	1653.5
35°	6516.8	5711.7	3162.2	1764.3	1738.1	1648.8	1510.3	1436.4	1437.9	1501.0	1521.1
37.5°	6830.9	5827.1	2529.5	1744.3	1765.8	1650.4	1465.6	1364.0	1322.5	1322.5	1330.2
40°	7232.7	5945.7	2047.6	1758.1	1824.3	1668.9	1442.5	1307.1	1190.1	1193.1	1199.3
42.5°	7756.2	6047.3	1788.9	1787.4	1895.2	1693.5	1441.0	1231.6	1130.0	1199.3	1262.4
45°	8338.1	6098.1	1675.0	1813.6	1952.1	1708.9	1416.4	1219.3	1137.7	1344.0	1464.1
47.5°	9007.8	6068.8	1611.9	1822.8	1966.0	1708.9	1388.7	1248.6	1191.6	1556.5	1696.6
50°	9742.2	5984.2	1550.3	1804.3	1961.4	1705.8	1414.8	1277.8	1211.6	1593.4	1690.4
52.5°	10605.8	5913.3	1485.6	1764.3	1929.0	1688.9	1445.6	1265.5	1148.5	1448.7	1516.4
55°	11591.1	5933.4	1413.3	1707.3	1878.2	1656.5	1434.8	1216.2	1082.3	1276.3	1317.8
57.5°	12850.5	6172.0	1327.1	1635.0	1809.0	1602.7	1396.4	1193.1	1062.3	1157.7	1182.4
60°	14256.1	6587.7	1219.3	1562.6	1722.7	1516.4	1367.1	1203.9	1071.5	1148.5	1160.8
62.5°	15287.6	6829.4	1126.9	1456.4	1605.7	1421.0	1330.2	1217.8	1096.1	1180.8	1177.7
65°	15567.8	6432.2	1011.5	1300.9	1447.2	1320.9	1284.0	1233.2	1106.9	1207.0	1193.1
66°	15175.2	6004.2	960.7	1228.5	1367.1	1271.7	1260.9	1231.6	1102.3	1210.1	1187.0
67.5°	14222.2	5126.6	872.9	1122.3	1239.3	1197.8	1223.9	1217.8	1090.0	1207.0	1174.7
70°	11598.8	3497.8	746.7	934.5	1031.5	1054.6	1153.1	1168.5	1050.0	1153.1	1082.3
72.5°	8104.1	2130.7	660.5	725.1	834.4	899.1	1056.1	1100.8	996.1	1006.9	939.1
75°	3916.6	1131.6	598.9	561.9	648.1	751.3	939.1	1008.4	911.4	842.1	817.5
77.5°	1220.8	691.3	508.0	452.6	508.0	606.6	785.2	883.7	811.3	705.1	695.9
80°	655.8	508.0	391.0	363.3	401.8	475.7	617.4	737.4	697.4	632.7	565.0
82.5°	432.6	329.5	289.4	281.7	306.4	363.3	458.8	611.2	611.2	541.9	394.1
85°	223.2	201.7	198.6	198.6	214.0	241.7	312.5	471.1	501.9	286.4	237.1
87.5°	110.8	115.5	107.8	112.4	120.1	118.5	149.3	237.1	283.3	174.0	144.7
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)