

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: P192302

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192302
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-04-LED-E1-T3R-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 26931 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

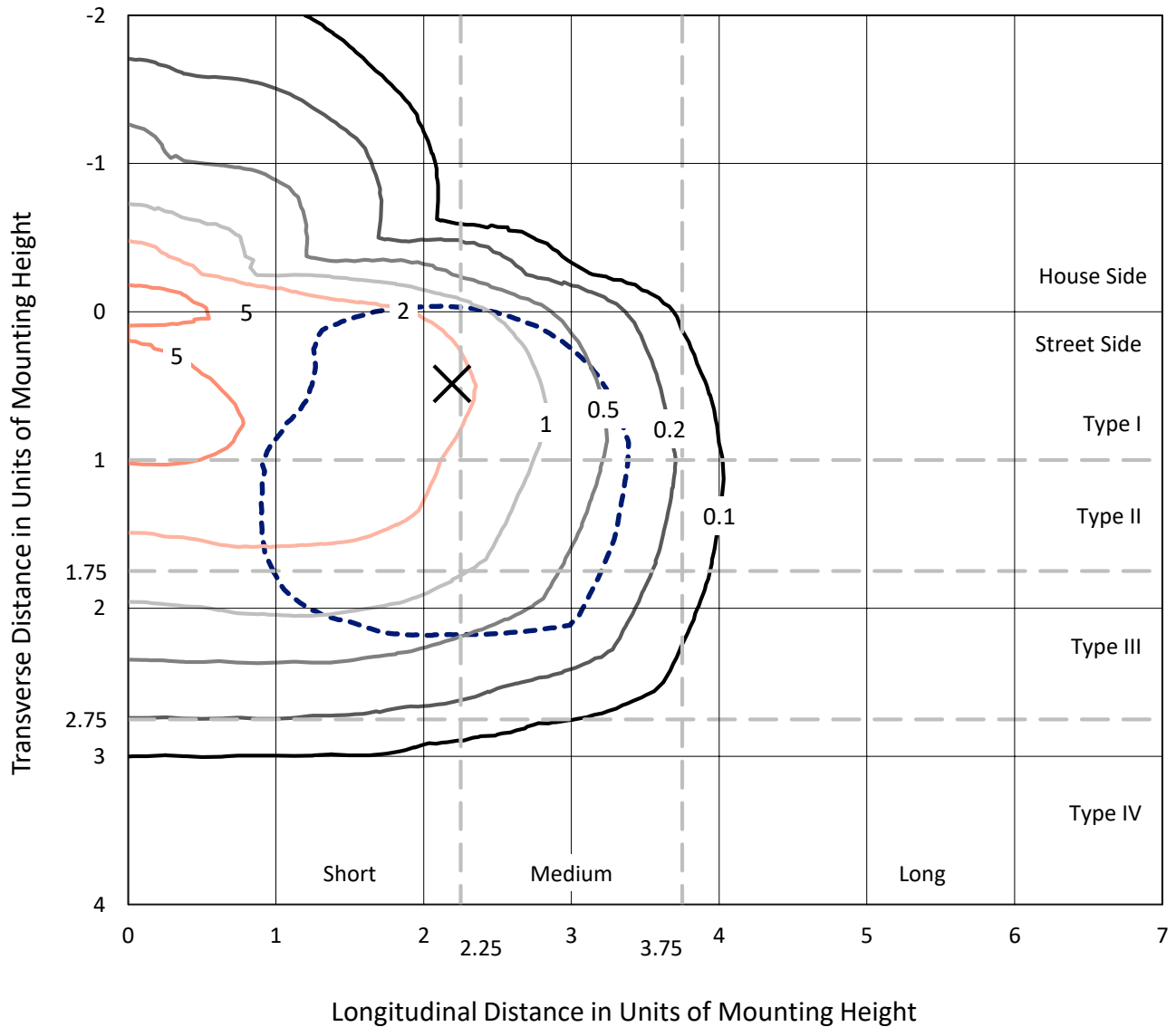


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Iso-Footcandle Lines of Horizontal Illumination

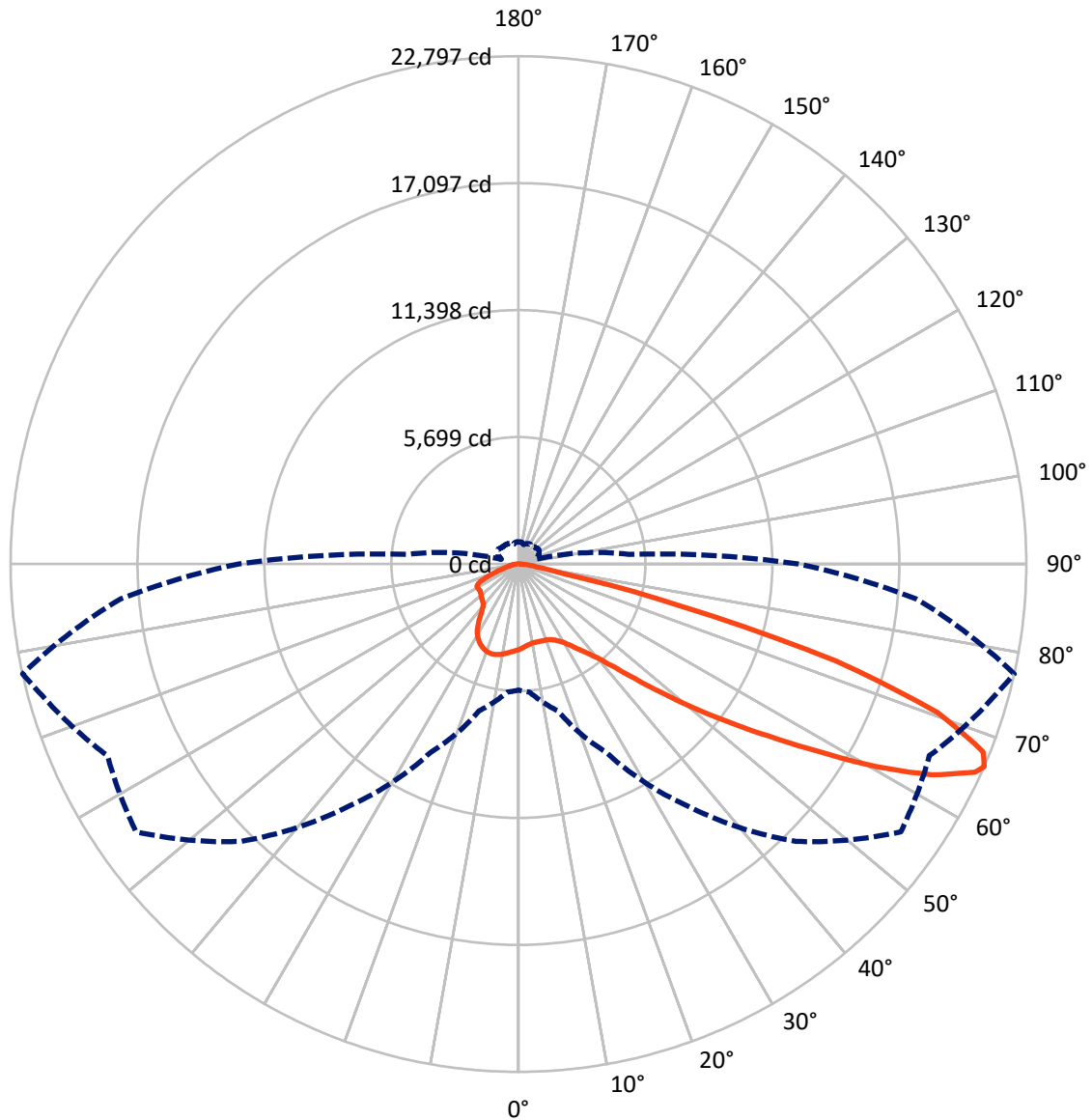
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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
House Side	Lumens	4601.0	0.0	4601.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	22330.0	0.0	22330.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	26931.0	0.0	26931.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.9	1.3
10°-20°	967.3	3.6
20°-30°	1650.9	6.1
30°-40°	2642.7	9.8
40°-50°	4082.8	15.2
50°-60°	5790.8	21.5
60°-70°	7746.5	28.8
70°-80°	3364.2	12.5
80°-90°	343.0	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°	26931.0	100.0
0°-180°	26931.0	100.0



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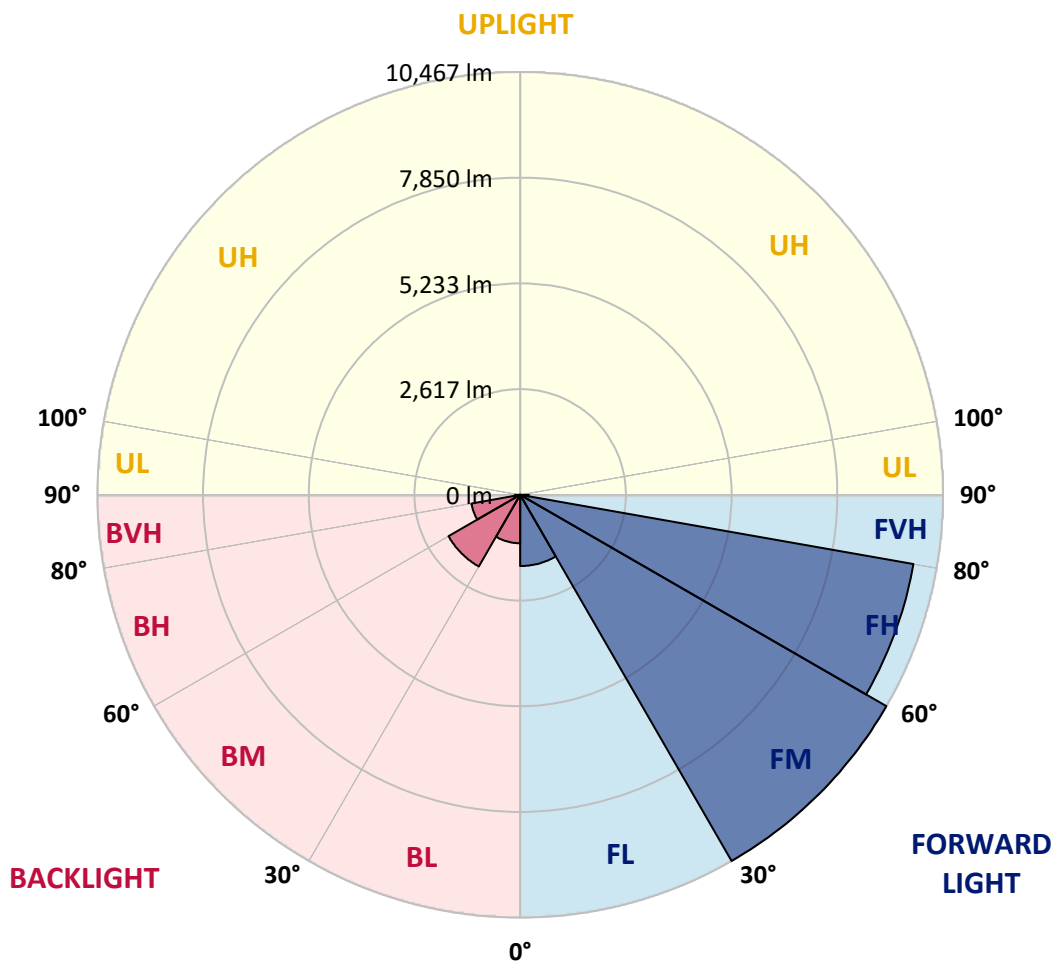
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1762.8	6.5			
FM	(30°-60°)	10466.8	38.9			
FH	(60°-80°)	9885.3	36.7			G4/12000
FVH	(80°-90°)	215.1	0.8			G2/225
BL	(0°-30°)	1198.3	4.4	B3/2500		
BM	(30°-60°)	2049.5	7.6	B2/2500		
BH	(60°-80°)	1225.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	127.9	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°	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8
2.5°	3395.0	3417.9	3437.0	3454.8	3490.4	3548.9	3616.4	3671.1	3750.0	3765.3	3807.3
5°	3083.2	3083.2	3098.5	3125.2	3173.6	3261.4	3353.0	3475.1	3646.9	3687.6	3799.6
7.5°	2931.8	2933.1	2942.0	2964.9	3006.9	3087.0	3187.6	3331.3	3564.2	3631.7	3822.5
10°	2987.8	2975.1	2956.0	2944.5	2950.9	2998.0	3093.4	3253.7	3513.3	3599.8	3873.4
12.5°	3300.8	3276.6	3210.5	3122.7	3038.7	3004.3	3060.3	3216.8	3491.7	3592.2	3940.9
15°	3812.3	3802.2	3678.7	3496.8	3293.2	3122.7	3084.5	3202.8	3494.2	3601.1	4021.0
17.5°	4453.7	4439.7	4276.8	4012.1	3680.0	3347.9	3169.7	3214.3	3503.1	3616.4	4098.7
20°	5101.4	5058.1	4882.5	4566.9	4140.6	3654.6	3311.0	3243.5	3514.6	3632.9	4180.1
22.5°	5584.9	5549.3	5391.5	5084.8	4593.6	4009.6	3500.6	3294.4	3551.5	3681.3	4280.6
25°	6009.9	6012.5	5855.9	5559.5	5051.7	4386.2	3744.9	3430.6	3645.7	3780.5	4418.0
27.5°	6535.5	6504.9	6358.6	6064.6	5504.7	4766.7	4040.1	3617.7	3785.6	3921.8	4598.7
30°	7164.1	7142.4	6973.2	6639.8	6007.4	5175.2	4377.3	3835.3	3966.3	4107.6	4835.4
32.5°	7903.4	7893.2	7717.6	7288.8	6587.6	5656.2	4773.1	4122.8	4236.1	4382.4	5175.2
35°	8771.2	8772.5	8565.1	8049.7	7222.6	6216.1	5222.3	4493.1	4564.4	4717.1	5579.8
37.5°	9305.6	9370.5	9292.9	8767.4	7941.5	6842.1	5805.0	4984.3	4938.5	5092.5	6013.7
40°	9420.2	9499.1	9744.6	9477.4	8745.7	7531.8	6321.7	5456.4	5399.1	5587.5	6572.4
42.5°	9259.8	9369.3	9888.4	10076.8	9599.6	8381.8	7016.4	6157.5	6085.0	6338.2	7267.1
45°	9164.4	9245.8	9846.4	10388.5	10340.2	9342.5	7900.8	7038.1	7011.4	7343.5	8068.8
47.5°	8999.0	9072.8	9650.5	10461.0	10775.3	10223.1	8963.3	8114.6	8166.8	8602.0	8973.5
50°	9088.0	9118.6	9431.6	10276.5	10901.3	10868.2	10150.6	9361.6	9539.8	10083.1	9997.9
52.5°	9075.3	9154.2	9406.2	9973.7	10917.9	11266.5	11320.0	10752.4	11127.8	11751.3	11134.2
55°	7337.1	7482.2	9107.1	9897.3	10976.4	11657.2	12360.9	12218.3	12918.2	13644.8	12416.8
57.5°	7006.3	7097.9	7998.8	10057.7	11286.9	12402.8	13518.8	13831.8	15002.5	15846.2	13979.5
60°	6941.4	7054.6	7987.3	10253.6	11916.8	13618.1	15235.4	15785.1	17538.6	18462.4	15791.5
62.5°	6739.0	6861.2	7912.3	10228.2	12811.3	15299.0	17433.0	17861.8	19943.6	20841.9	17307.0
65°	6097.7	6212.2	7300.2	9817.2	13414.5	17093.2	20033.9	19765.4	21842.1	22517.8	18062.8
66°	5658.7	5770.7	6817.9	9333.6	13274.5	17602.2	20955.2	20354.6	22267.1	22796.5	17915.2
67.5°	4855.8	4943.6	5881.4	8250.8	12530.1	17744.7	21730.1	20797.4	22311.6	22498.7	17071.6
70°	3067.9	3093.4	3822.5	5695.6	9485.1	15389.4	20550.5	19698.0	20471.6	19965.2	14311.6
72.5°	1331.0	1322.1	1834.9	2897.4	5369.9	10326.2	16623.7	16253.4	16058.7	14903.3	10018.2
75°	740.6	750.8	953.1	1345.0	2182.3	5072.1	10874.6	10406.3	8786.5	7497.4	4542.7
77.5°	594.2	608.2	790.2	954.4	979.8	1768.7	5088.6	4140.6	2492.8	2000.3	1262.3
80°	469.5	495.0	689.7	743.1	660.4	729.1	1644.0	1314.5	986.2	904.7	654.1
82.5°	371.6	389.4	591.7	562.4	461.9	491.2	787.7	767.3	641.3	584.1	377.9
85°	267.2	300.3	486.1	423.7	302.8	330.8	523.0	501.4	367.7	300.3	166.7
87.5°	109.4	142.5	343.6	281.2	169.2	154.0	260.9	245.6	174.3	127.2	82.7
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°	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8	3837.8
2.5°	3834.0	3864.5	3904.0	3928.1	3940.9	3949.8	3963.8	3962.5	3966.3	3967.6	3972.7
5°	3859.4	3910.3	3967.6	3982.9	3982.9	3968.9	3954.9	3932.0	3923.1	3920.5	3923.1
7.5°	3925.6	3981.6	4031.2	4013.4	3975.2	3919.2	3846.7	3783.1	3748.7	3737.3	3734.7
10°	4009.6	4077.0	4097.4	4029.9	3918.0	3783.1	3639.3	3534.9	3475.1	3458.6	3453.5
12.5°	4111.4	4175.0	4147.0	4004.5	3797.1	3579.5	3381.0	3214.3	3089.6	3050.1	3047.6
15°	4223.4	4273.0	4175.0	3925.6	3616.4	3295.7	2942.0	2654.4	2499.1	2449.5	2445.7
17.5°	4327.7	4353.1	4158.5	3788.2	3350.4	2831.3	2361.7	2140.3	2086.9	2099.6	2102.1
20°	4416.8	4416.8	4102.5	3590.9	2931.8	2219.2	1922.7	1918.9	1957.1	1995.2	2002.9
22.5°	4514.8	4456.2	4004.5	3312.3	2338.8	1815.8	1772.6	1808.2	1851.5	1893.4	1899.8
25°	4635.6	4488.0	3868.3	2889.8	1838.7	1649.1	1665.7	1694.9	1716.6	1743.3	1747.1
27.5°	4770.5	4528.8	3688.9	2308.3	1595.7	1544.8	1557.5	1567.7	1565.1	1575.3	1577.9
30°	4932.1	4575.8	3443.3	1804.4	1495.2	1455.7	1432.8	1423.9	1423.9	1440.4	1446.8
32.5°	5148.4	4645.8	3090.9	1546.1	1446.8	1392.1	1318.3	1285.2	1297.9	1353.9	1366.6
35°	5386.4	4720.9	2613.7	1458.3	1436.6	1362.8	1248.3	1187.2	1188.5	1240.7	1257.2
37.5°	5646.0	4816.3	2090.7	1441.7	1459.5	1364.1	1211.4	1127.4	1093.1	1093.1	1099.4
40°	5978.1	4914.3	1692.4	1453.2	1507.9	1379.4	1192.3	1080.3	983.6	986.2	991.3
42.5°	6410.7	4998.3	1478.6	1477.3	1566.4	1399.7	1191.0	1018.0	934.0	991.3	1043.4
45°	6891.7	5040.3	1384.5	1499.0	1613.5	1412.5	1170.7	1007.8	940.4	1110.9	1210.1
47.5°	7445.3	5016.1	1332.3	1506.6	1625.0	1412.5	1147.8	1032.0	984.9	1286.5	1402.3
50°	8052.2	4946.1	1281.4	1491.3	1621.1	1409.9	1169.4	1056.2	1001.4	1317.0	1397.2
52.5°	8766.1	4887.6	1227.9	1458.3	1594.4	1395.9	1194.9	1046.0	949.3	1197.4	1253.4
55°	9580.5	4904.1	1168.1	1411.2	1552.4	1369.2	1186.0	1005.3	894.6	1054.9	1089.2
57.5°	10621.4	5101.4	1096.9	1351.4	1495.2	1324.7	1154.1	986.2	878.0	956.9	977.3
60°	11783.2	5444.9	1007.8	1291.6	1423.9	1253.4	1130.0	995.1	885.6	949.3	959.4
62.5°	12635.7	5644.7	931.5	1203.8	1327.2	1174.5	1099.4	1006.5	906.0	976.0	973.4
65°	12867.3	5316.4	836.0	1075.2	1196.1	1091.8	1061.2	1019.3	914.9	997.6	986.2
66°	12542.8	4962.7	794.0	1015.4	1130.0	1051.1	1042.2	1018.0	911.1	1000.2	981.1
67.5°	11755.2	4237.4	721.5	927.6	1024.3	990.0	1011.6	1006.5	900.9	997.6	970.9
70°	9586.9	2891.1	617.2	772.4	852.6	871.6	953.1	965.8	867.8	953.1	894.6
72.5°	6698.3	1761.1	545.9	599.3	689.7	743.1	872.9	909.8	823.3	832.2	776.2
75°	3237.2	935.3	495.0	464.5	535.7	621.0	776.2	833.5	753.3	696.0	675.7
77.5°	1009.1	571.3	419.9	374.1	419.9	501.4	649.0	730.4	670.6	582.8	575.2
80°	542.1	419.9	323.2	300.3	332.1	393.2	510.3	609.5	576.4	523.0	467.0
82.5°	357.6	272.3	239.2	232.9	253.2	300.3	379.2	505.2	505.2	447.9	325.8
85°	184.5	166.7	164.1	164.1	176.9	199.8	258.3	389.4	414.8	236.7	196.0
87.5°	91.6	95.4	89.1	92.9	99.3	98.0	123.4	196.0	234.1	143.8	119.6
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)