

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: P269349

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269349  
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-05-LED-E1-T3R-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 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: 26427.4 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

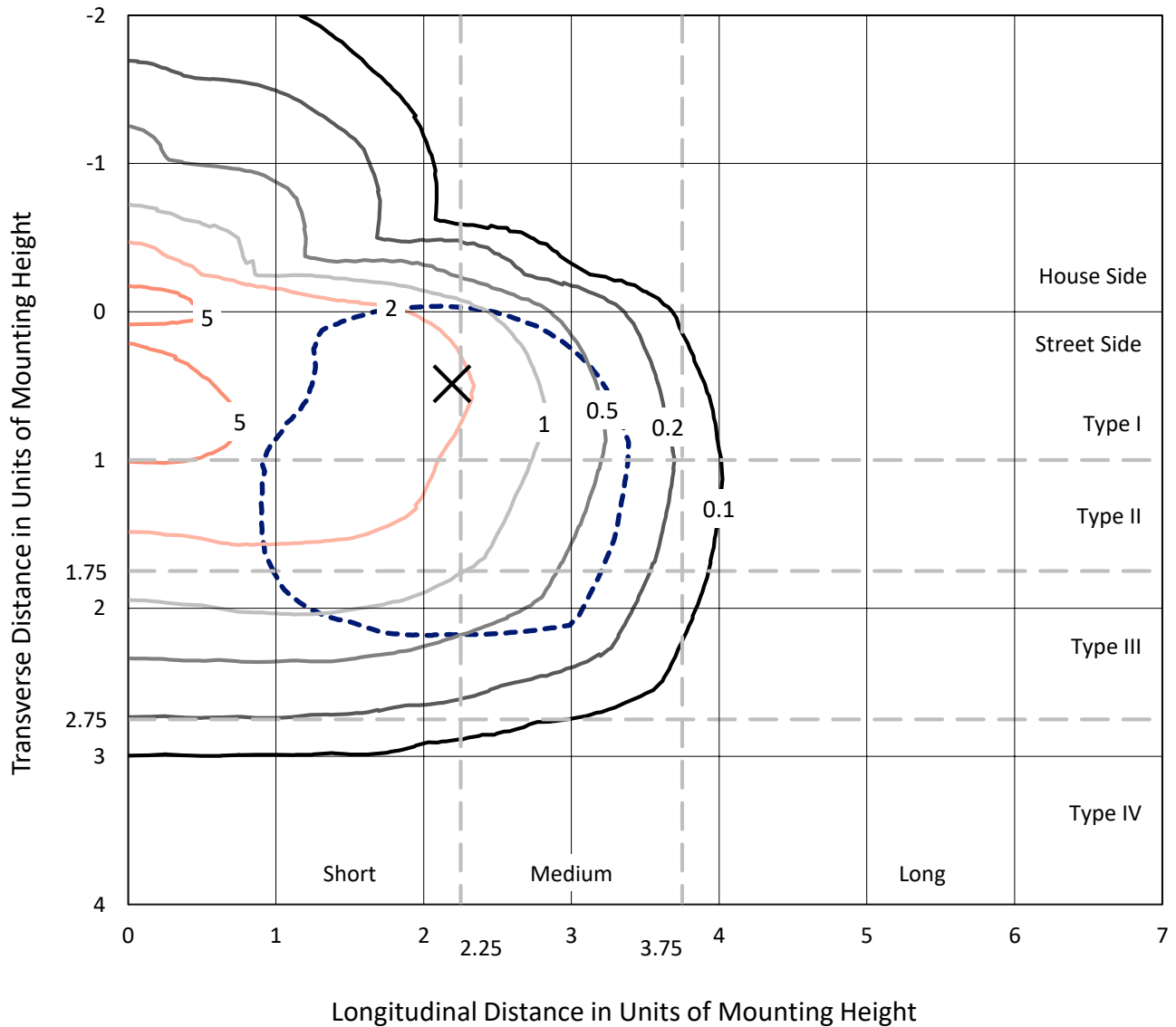
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

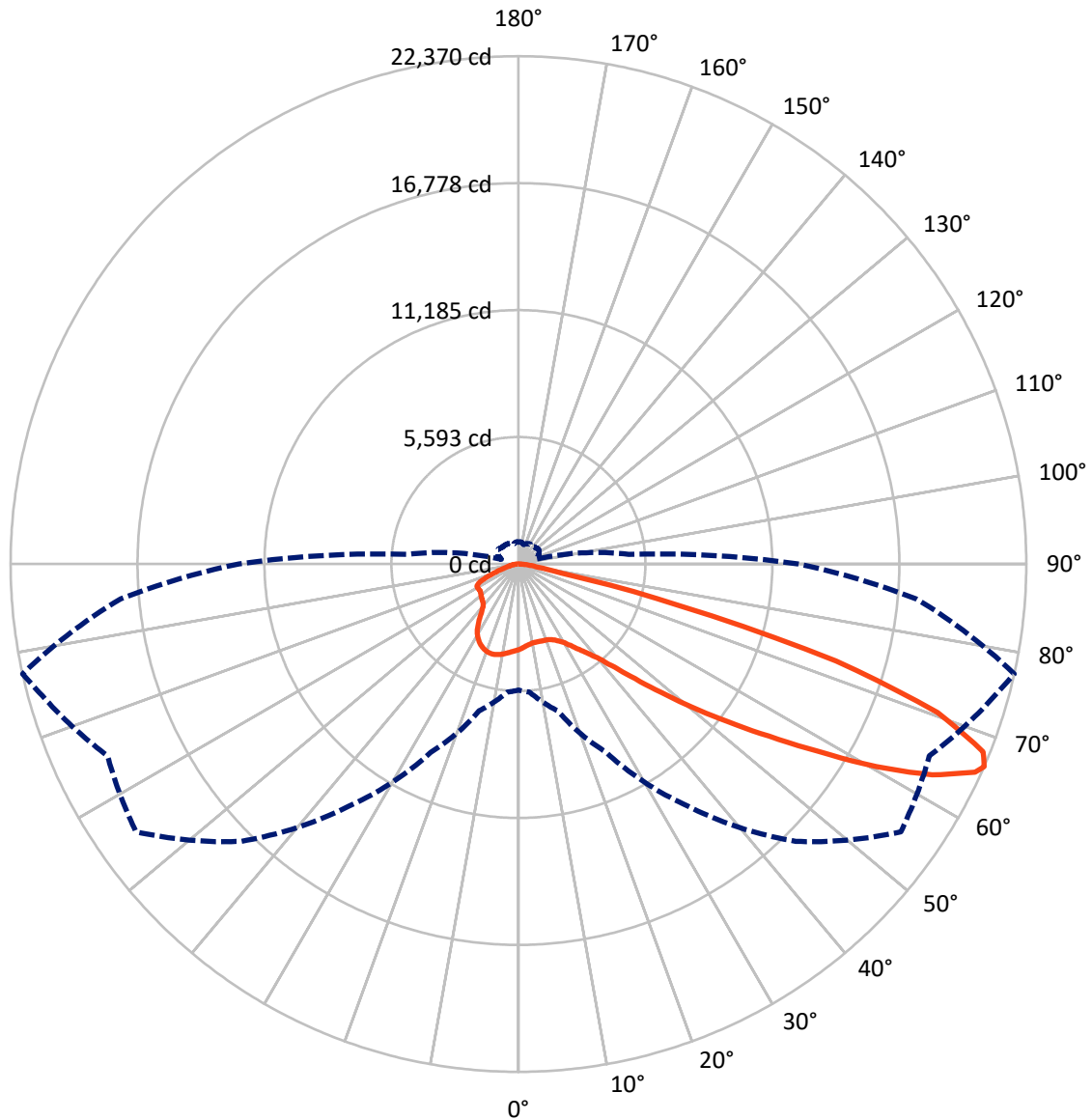
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	4514.9	0.0	4514.9
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	21912.4	0.0	21912.4
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	26427.4	0.0	26427.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.5	1.3
10°-20°	949.2	3.6
20°-30°	1620.0	6.1
30°-40°	2593.3	9.8
40°-50°	4006.4	15.2
50°-60°	5682.5	21.5
60°-70°	7601.6	28.8
70°-80°	3301.2	12.5
80°-90°	336.6	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°	26427.4	100.0
0°-180°	26427.4	100.0



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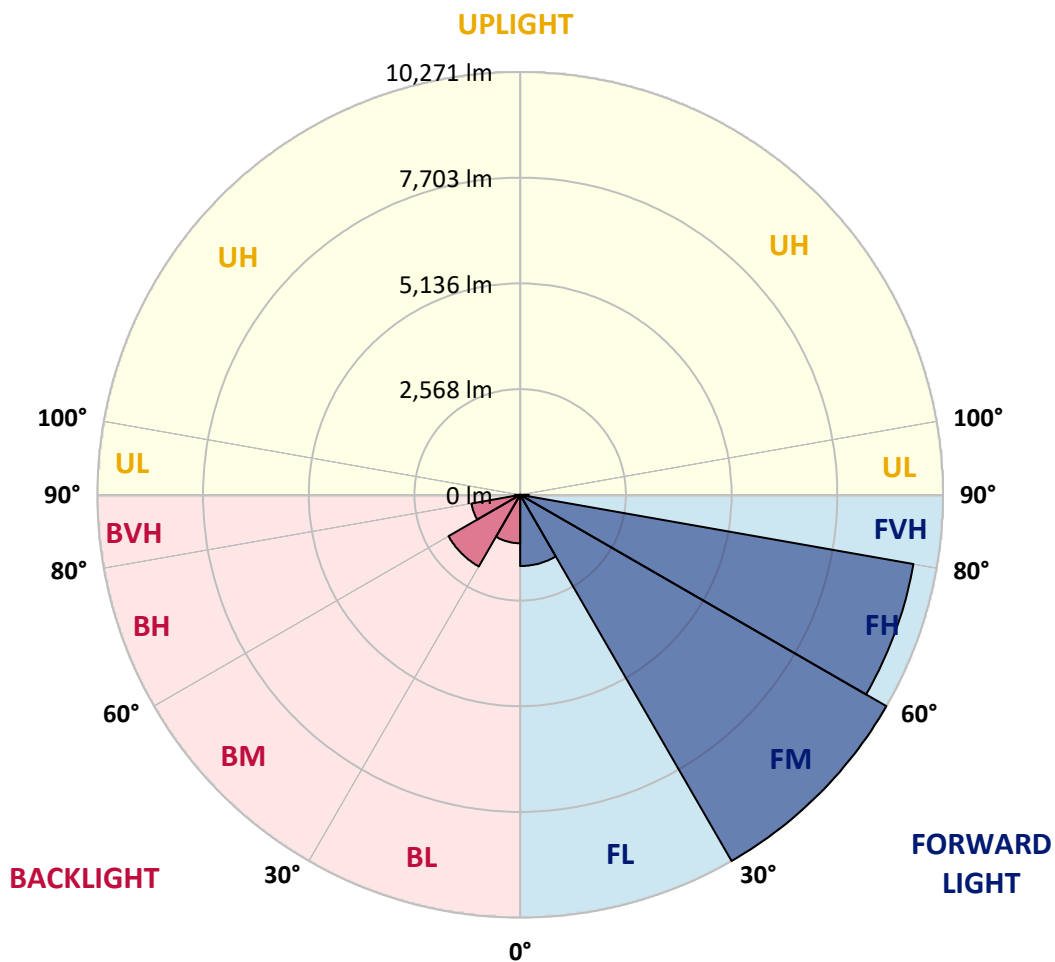
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1729.8	6.5			
FM	(30°-60°)	10271.1	38.9			
FH	(60°-80°)	9700.5	36.7			G4/12000
FVH	(80°-90°)	211.1	0.8			G2/225
BL	(0°-30°)	1175.9	4.4	B3/2500		
BM	(30°-60°)	2011.2	7.6	B2/2500		
BH	(60°-80°)	1202.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	125.5	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°	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1
2.5°	3331.5	3353.9	3372.6	3390.2	3425.1	3482.5	3548.8	3602.5	3679.8	3694.9	3736.1
5°	3025.5	3025.5	3040.6	3066.8	3114.2	3200.4	3290.3	3410.1	3578.7	3618.7	3728.5
7.5°	2876.9	2878.2	2887.0	2909.4	2950.7	3029.4	3128.0	3269.0	3497.6	3563.8	3751.1
10°	2931.9	2919.4	2900.6	2889.5	2895.6	2941.9	3035.6	3192.8	3447.7	3532.6	3801.0
12.5°	3239.1	3215.4	3150.4	3064.3	2981.8	2948.1	3003.0	3156.6	3426.3	3524.9	3867.2
15°	3741.0	3731.1	3610.0	3431.3	3231.7	3064.3	3026.7	3142.9	3428.9	3533.8	3945.9
17.5°	4370.3	4356.7	4196.8	3937.1	3611.1	3285.3	3110.6	3154.2	3437.6	3548.8	4022.0
20°	5006.0	4963.6	4791.2	4481.6	4063.3	3586.3	3249.1	3182.9	3448.9	3565.1	4101.9
22.5°	5480.5	5445.4	5290.7	4989.7	4507.8	3934.5	3435.1	3232.8	3485.1	3612.4	4200.6
25°	5897.6	5900.0	5746.5	5455.4	4957.2	4304.1	3674.8	3366.5	3577.5	3709.8	4335.4
27.5°	6413.2	6383.3	6239.6	5951.2	5401.8	4677.6	3964.6	3550.0	3714.9	3848.5	4512.7
30°	7030.0	7008.8	6842.7	6515.6	5895.0	5078.4	4295.4	3763.4	3892.1	4030.8	4744.9
32.5°	7755.5	7745.5	7573.3	7152.5	6464.5	5550.4	4683.9	4045.7	4156.8	4300.5	5078.4
35°	8607.2	8608.4	8404.9	7899.2	7087.4	6099.9	5124.7	4409.2	4478.9	4628.8	5475.4
37.5°	9131.6	9195.3	9119.1	8603.3	7793.1	6714.1	5696.5	4891.1	4846.1	4997.2	5901.2
40°	9244.0	9321.4	9562.4	9300.2	8582.1	7391.0	6203.4	5354.3	5298.2	5483.0	6449.4
42.5°	9086.6	9194.1	9703.5	9888.4	9420.0	8225.2	6885.1	6042.4	5971.3	6219.7	7131.3
45°	8993.0	9072.9	9662.3	10194.2	10146.7	9167.8	7753.1	6906.4	6880.3	7206.2	7917.9
47.5°	8830.7	8903.1	9470.0	10265.4	10573.8	10031.9	8795.8	7962.8	8014.0	8441.2	8805.7
50°	8918.2	8948.0	9255.2	10084.4	10697.5	10664.9	9960.8	9186.5	9361.3	9894.6	9810.8
52.5°	8905.5	8983.1	9230.3	9787.2	10713.6	11055.8	11108.4	10551.3	10919.7	11531.6	10925.9
55°	7199.8	7342.2	8936.8	9712.3	10771.1	11439.1	12129.8	11989.9	12676.6	13389.6	12184.6
57.5°	6875.3	6965.2	7849.2	9869.6	11075.8	12170.9	13266.0	13573.2	14722.0	15549.8	13718.0
60°	6811.6	6922.7	7838.0	10061.8	11693.9	13363.4	14950.5	15490.0	17210.5	18117.1	15496.1
62.5°	6613.1	6732.8	7764.3	10036.9	12571.7	15013.0	17107.0	17527.8	19570.7	20452.3	16983.4
65°	5983.7	6096.1	7163.8	9633.6	13163.7	16773.5	19659.2	19395.8	21433.6	22096.7	17725.0
66°	5553.0	5662.7	6690.4	9159.1	13026.2	17273.0	20563.3	19974.0	21850.7	22370.1	17580.2
67.5°	4765.0	4851.1	5771.4	8096.5	12295.8	17412.8	21323.7	20408.5	21894.4	22078.0	16752.3
70°	3010.6	3035.6	3751.1	5589.2	9307.7	15101.5	20166.2	19329.5	20088.7	19591.9	14043.9
72.5°	1306.1	1297.4	1800.7	2843.2	5269.5	10133.1	16312.9	15949.4	15758.3	14624.5	9831.0
75°	726.6	736.7	935.2	1319.9	2141.5	4977.2	10671.2	10211.8	8622.1	7357.3	4457.7
77.5°	583.1	596.8	775.4	936.6	961.5	1735.6	4993.5	4063.3	2446.2	1962.9	1238.8
80°	460.8	485.8	676.9	729.2	648.0	715.5	1613.3	1289.8	967.7	887.9	641.7
82.5°	364.6	382.0	580.7	551.9	453.3	482.0	772.9	753.0	629.4	573.2	370.9
85°	262.2	294.6	477.0	415.8	297.2	324.6	513.2	492.0	360.8	294.6	163.6
87.5°	107.3	139.9	337.1	276.0	166.0	151.1	255.9	240.9	171.0	124.9	81.1
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°	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1
2.5°	3762.3	3792.3	3830.9	3854.6	3867.2	3875.8	3889.7	3888.5	3892.1	3893.4	3898.4
5°	3787.3	3837.2	3893.4	3908.3	3908.3	3894.6	3880.9	3858.4	3849.6	3847.3	3849.6
7.5°	3852.2	3907.1	3955.9	3938.3	3900.9	3846.0	3774.8	3712.3	3678.6	3667.4	3664.8
10°	3934.5	4000.8	4020.8	3954.6	3844.7	3712.3	3571.2	3468.9	3410.1	3393.9	3388.9
12.5°	4034.5	4096.9	4069.4	3929.5	3726.1	3512.6	3317.7	3154.2	3031.8	2993.2	2990.5
15°	4144.4	4193.1	4096.9	3852.2	3548.8	3234.1	2887.0	2604.7	2452.5	2403.8	2399.9
17.5°	4246.7	4271.7	4080.7	3717.4	3287.7	2778.3	2317.5	2100.2	2047.9	2060.4	2062.8
20°	4334.2	4334.2	4025.8	3523.8	2876.9	2177.8	1886.8	1882.9	1920.4	1957.9	1965.4
22.5°	4430.4	4372.9	3929.5	3250.2	2295.1	1781.9	1739.4	1774.4	1816.8	1858.1	1864.3
25°	4548.9	4404.1	3796.0	2835.8	1804.3	1618.2	1634.6	1663.2	1684.5	1710.7	1714.4
27.5°	4681.2	4444.1	3619.9	2265.0	1565.8	1515.9	1528.3	1538.3	1535.9	1545.9	1548.4
30°	4839.9	4490.3	3379.0	1770.6	1467.2	1428.5	1405.9	1397.3	1397.3	1413.6	1419.7
32.5°	5052.2	4559.0	3033.0	1517.1	1419.7	1366.1	1293.6	1261.2	1273.6	1328.7	1341.1
35°	5285.6	4632.6	2564.8	1431.0	1409.8	1337.3	1225.0	1165.0	1166.3	1217.5	1233.7
37.5°	5540.3	4726.3	2051.5	1414.8	1432.3	1338.6	1188.7	1106.4	1072.7	1072.7	1078.9
40°	5866.3	4822.5	1660.7	1426.0	1479.7	1353.6	1170.0	1060.1	965.1	967.7	972.8
42.5°	6290.9	4904.8	1450.9	1449.8	1537.1	1373.6	1168.8	998.9	916.5	972.8	1023.9
45°	6762.9	4946.1	1358.5	1471.0	1583.4	1386.1	1148.8	988.9	922.7	1090.2	1187.5
47.5°	7306.1	4922.4	1307.4	1478.4	1594.6	1386.1	1126.4	1012.7	966.4	1262.4	1376.1
50°	7901.6	4853.6	1257.4	1463.5	1590.8	1383.5	1147.6	1036.5	982.7	1292.4	1371.1
52.5°	8602.2	4796.2	1204.9	1431.0	1564.6	1369.7	1172.5	1026.5	931.5	1175.1	1230.0
55°	9401.3	4812.4	1146.2	1384.7	1523.3	1343.5	1163.8	986.5	877.9	1035.1	1068.9
57.5°	10422.8	5006.0	1076.3	1326.1	1467.2	1299.8	1132.6	967.7	861.6	939.0	959.0
60°	11562.9	5343.1	988.9	1267.4	1397.3	1230.0	1108.9	976.5	869.1	931.5	941.6
62.5°	12399.5	5539.2	914.0	1181.2	1302.4	1152.5	1078.9	987.6	889.1	957.8	955.3
65°	12626.7	5216.9	820.4	1055.1	1173.7	1071.4	1041.5	1000.3	897.8	979.0	967.7
66°	12308.2	4869.8	779.2	996.4	1108.9	1031.4	1022.7	998.9	894.1	981.5	962.8
67.5°	11535.3	4158.2	708.0	910.3	1005.3	971.4	992.6	987.6	884.0	979.0	952.7
70°	9407.6	2836.9	605.5	758.0	836.6	855.4	935.2	947.7	851.7	935.2	877.9
72.5°	6573.1	1728.2	535.7	588.1	676.9	729.2	856.7	892.8	807.8	816.6	761.8
75°	3176.6	917.8	485.8	455.8	525.7	609.4	761.8	817.8	739.2	683.0	663.0
77.5°	990.2	560.6	412.1	367.0	412.1	492.0	636.8	716.8	658.1	572.0	564.5
80°	531.9	412.1	317.1	294.6	325.9	385.8	500.7	598.1	565.7	513.2	458.2
82.5°	350.9	267.2	234.7	228.4	248.6	294.6	372.1	495.8	495.8	439.5	319.6
85°	181.1	163.6	161.1	161.1	173.6	196.0	253.5	382.0	407.1	232.2	192.2
87.5°	89.9	93.7	87.5	91.2	97.3	96.2	121.1	192.2	229.7	141.2	117.4
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)