

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: P194025

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194025
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-07-LED-E1-T3R-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28380 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 295
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

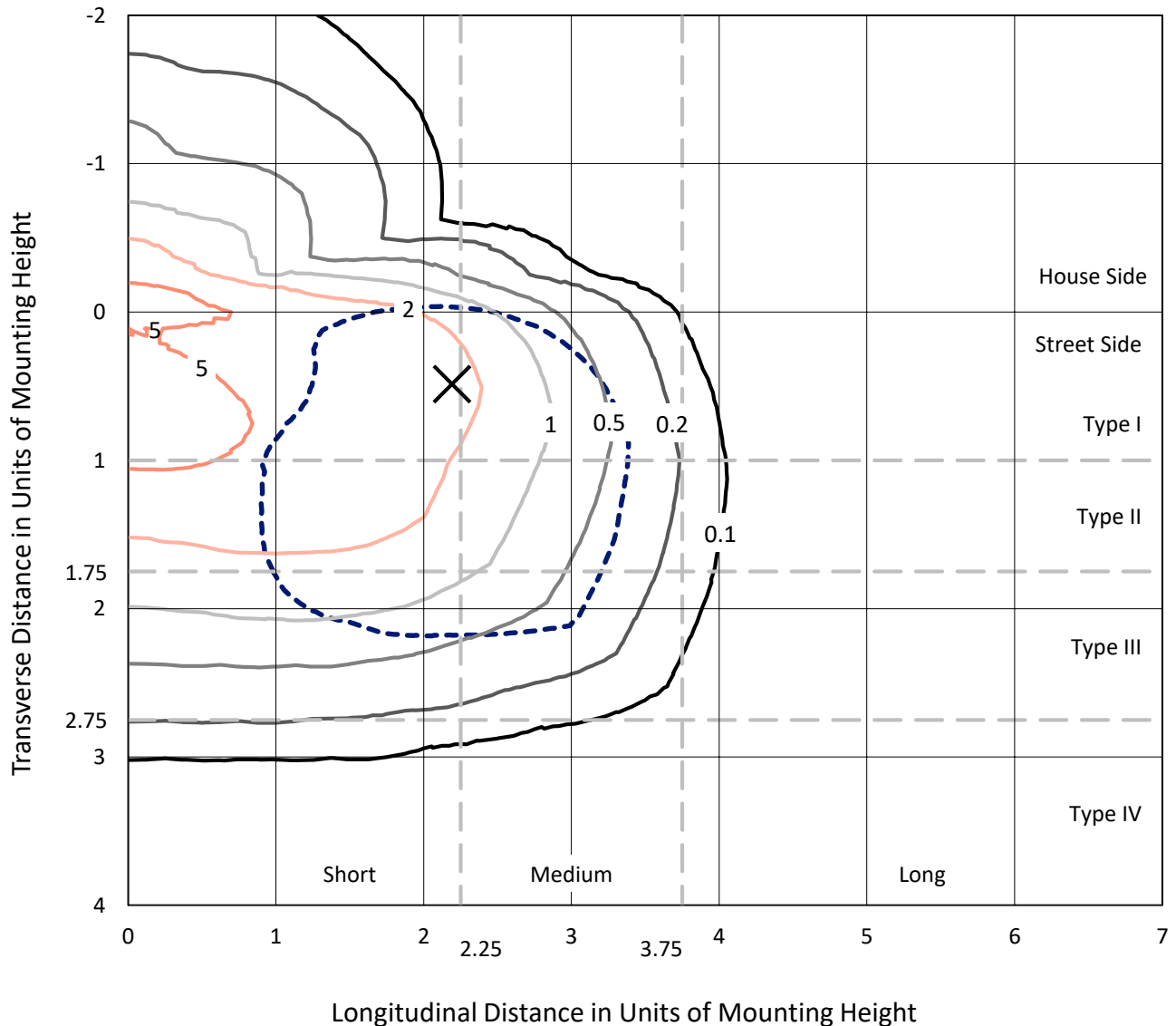


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

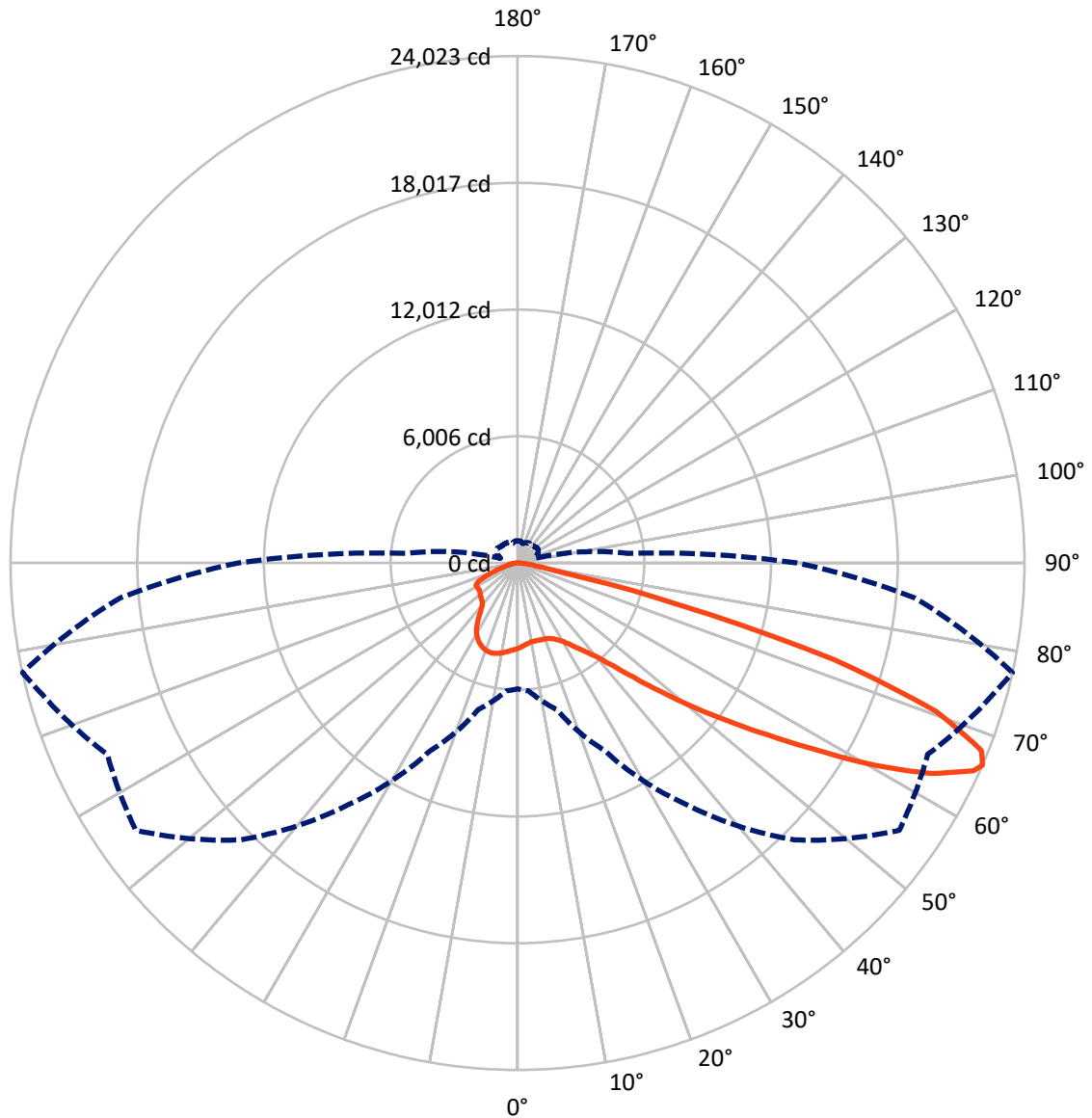


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Full Cutoff

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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	4848.5	0.0	4848.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	23531.5	0.0	23531.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	28380.0	0.0	28380.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.3	1.3
10°-20°	1019.4	3.6
20°-30°	1739.7	6.1
30°-40°	2784.9	9.8
40°-50°	4302.4	15.2
50°-60°	6102.3	21.5
60°-70°	8163.3	28.8
70°-80°	3545.2	12.5
80°-90°	361.5	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°	28380.0	100.0
0°-180°	28380.0	100.0



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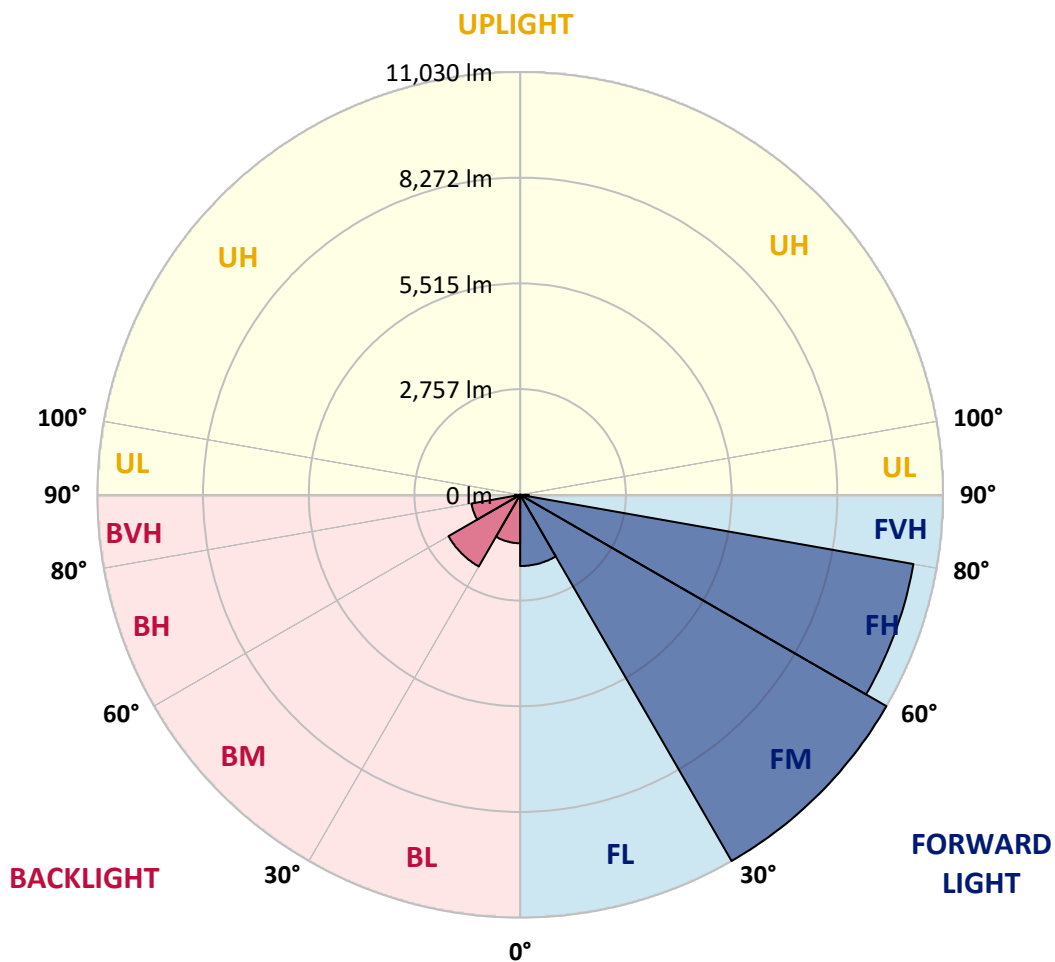
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1857.6	6.5			
FM (30°-60°)	11030.0	38.9			
FH (60°-80°)	10417.2	36.7			G4/12000
FVH (80°-90°)	226.7	0.8			G3/500
BL (0°-30°)	1262.8	4.4	B3/2500		
BM (30°-60°)	2159.8	7.6	B2/2500		
BH (60°-80°)	1291.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	134.8	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°	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3
2.5°	3577.6	3601.8	3621.9	3640.7	3678.2	3739.9	3811.0	3868.6	3951.8	3967.9	4012.1
5°	3249.1	3249.1	3265.2	3293.4	3344.3	3436.8	3533.4	3662.1	3843.1	3886.1	4004.1
7.5°	3089.5	3090.9	3100.3	3124.4	3168.6	3253.1	3359.1	3510.6	3756.0	3827.1	4028.2
10°	3148.5	3135.1	3115.0	3102.9	3109.6	3159.3	3259.8	3428.8	3702.3	3793.5	4081.8
12.5°	3478.4	3452.9	3383.2	3290.7	3202.2	3166.0	3225.0	3389.9	3679.5	3785.5	4152.9
15°	4017.5	4006.7	3876.7	3684.9	3470.4	3290.7	3250.4	3375.2	3682.2	3794.9	4237.4
17.5°	4693.3	4678.6	4506.9	4228.0	3878.0	3528.0	3340.3	3387.2	3691.6	3811.0	4319.2
20°	5375.8	5330.2	5145.2	4812.6	4363.4	3851.2	3489.1	3418.1	3703.7	3828.4	4405.0
22.5°	5885.4	5847.9	5681.6	5358.4	4840.8	4225.3	3688.9	3471.7	3742.6	3879.3	4510.9
25°	6333.3	6336.0	6171.0	5858.6	5323.5	4622.2	3946.4	3615.2	3841.8	3983.9	4655.8
27.5°	6887.1	6854.9	6700.7	6390.9	5800.9	5023.2	4257.5	3812.3	3989.3	4132.8	4846.2
30°	7549.5	7526.7	7348.4	6997.0	6330.6	5453.6	4612.8	4041.6	4179.7	4328.6	5095.6
32.5°	8328.6	8317.9	8132.8	7680.9	6942.1	5960.5	5029.9	4344.7	4464.0	4618.2	5453.6
35°	9243.1	9244.5	9025.9	8482.8	7611.2	6550.5	5503.2	4734.9	4810.0	4970.9	5880.0
37.5°	9806.3	9874.7	9792.9	9239.1	8368.8	7210.3	6117.4	5252.5	5204.2	5366.5	6337.3
40°	9927.0	10010.1	10268.9	9987.3	9216.3	7937.0	6661.8	5750.0	5689.6	5888.1	6926.0
42.5°	9758.0	9873.4	10420.5	10618.9	10116.1	8832.8	7394.0	6488.8	6412.4	6679.2	7658.1
45°	9657.5	9743.3	10376.2	10947.5	10896.5	9845.2	8325.9	7416.8	7388.6	7738.6	8502.9
47.5°	9483.2	9560.9	10169.7	11023.9	11355.1	10773.1	9445.6	8551.2	8606.2	9064.8	9456.3
50°	9577.0	9609.2	9939.1	10829.5	11487.9	11453.0	10696.7	9865.3	10053.1	10625.6	10535.8
52.5°	9563.6	9646.7	9912.3	10510.3	11505.3	11872.7	11929.0	11331.0	11726.5	12383.6	11733.3
55°	7731.9	7884.7	9597.1	10429.9	11567.0	12284.4	13025.9	12875.7	13613.3	14378.9	13084.9
57.5°	7383.2	7479.8	8429.2	10598.8	11894.2	13070.2	14246.2	14576.1	15809.7	16698.8	14731.6
60°	7314.8	7434.2	8417.1	10805.3	12557.9	14350.8	16055.1	16634.4	18482.2	19455.7	16641.1
62.5°	7101.6	7230.4	8338.0	10778.5	13500.6	16122.2	18370.9	18822.8	21016.6	21963.3	18238.2
65°	6425.8	6546.5	7693.0	10345.4	14136.2	18012.9	21111.8	20828.9	23017.3	23729.3	19034.7
66°	5963.2	6081.2	7184.8	9835.8	13988.7	18549.3	22082.7	21449.7	23465.2	24023.0	18879.1
67.5°	5117.0	5209.6	6197.8	8694.7	13204.3	18699.5	22899.3	21916.4	23512.1	23709.2	17990.1
70°	3233.0	3259.8	4028.2	6002.1	9995.4	16217.4	21656.2	20757.8	21573.1	21039.4	15081.6
72.5°	1402.6	1393.2	1933.6	3053.3	5658.8	10881.8	17518.1	17127.9	16922.7	15705.1	10557.2
75°	780.4	791.2	1004.4	1417.4	2299.7	5345.0	11459.7	10966.2	9259.2	7900.8	4787.2
77.5°	626.2	641.0	832.7	1005.7	1032.5	1863.9	5362.4	4363.4	2626.9	2108.0	1330.2
80°	494.8	521.6	726.8	783.1	695.9	768.4	1732.5	1385.2	1039.2	953.4	689.2
82.5°	391.6	410.3	623.5	592.7	486.8	517.6	830.0	808.6	675.8	615.5	398.3
85°	281.6	316.5	512.2	446.5	319.1	348.6	551.1	528.3	387.5	316.5	175.7
87.5°	115.3	150.2	362.1	296.3	178.3	162.3	274.9	258.8	183.7	134.1	87.2
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°	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3
2.5°	4040.3	4072.4	4114.0	4139.5	4152.9	4162.3	4177.0	4175.7	4179.7	4181.1	4186.4
5°	4067.1	4120.7	4181.1	4197.2	4197.2	4182.4	4167.7	4143.5	4134.1	4131.4	4134.1
7.5°	4136.8	4195.8	4248.1	4229.3	4189.1	4130.1	4053.7	3986.6	3950.4	3938.4	3935.7
10°	4225.3	4296.4	4317.8	4246.8	4128.8	3986.6	3835.1	3725.1	3662.1	3644.7	3639.3
12.5°	4332.6	4399.6	4370.1	4219.9	4001.4	3772.1	3562.9	3387.2	3255.8	3214.2	3211.6
15°	4450.6	4502.9	4399.6	4136.8	3811.0	3473.0	3100.3	2797.2	2633.6	2581.3	2577.3
17.5°	4560.5	4587.4	4382.2	3992.0	3530.7	2983.6	2488.8	2255.5	2199.1	2212.6	2215.2
20°	4654.4	4654.4	4323.2	3784.1	3089.5	2338.6	2026.2	2022.1	2062.4	2102.6	2110.6
22.5°	4757.7	4696.0	4219.9	3490.5	2464.7	1913.5	1867.9	1905.5	1951.1	1995.3	2002.0
25°	4885.1	4729.5	4076.5	3045.3	1937.7	1737.9	1755.3	1786.1	1808.9	1837.1	1841.1
27.5°	5027.2	4772.4	3887.4	2432.5	1681.5	1627.9	1641.3	1652.0	1649.4	1660.1	1662.8
30°	5197.5	4822.0	3628.6	1901.5	1575.6	1534.0	1509.9	1500.5	1500.5	1517.9	1524.7
32.5°	5425.5	4895.8	3257.2	1629.2	1524.7	1467.0	1389.2	1354.4	1367.8	1426.8	1440.2
35°	5676.2	4974.9	2754.3	1536.7	1513.9	1436.2	1315.5	1251.1	1252.4	1307.4	1324.9
37.5°	5949.8	5075.5	2203.2	1519.3	1538.1	1437.5	1276.6	1188.1	1151.9	1151.9	1158.6
40°	6299.8	5178.7	1783.5	1531.4	1589.0	1453.6	1256.5	1138.5	1036.5	1039.2	1044.6
42.5°	6755.7	5267.2	1558.2	1556.8	1650.7	1475.0	1255.1	1072.8	984.3	1044.6	1099.6
45°	7262.5	5311.5	1458.9	1579.6	1700.3	1488.4	1233.7	1062.0	991.0	1170.6	1275.2
47.5°	7845.9	5286.0	1404.0	1587.7	1712.4	1488.4	1209.5	1087.5	1037.9	1355.7	1477.7
50°	8485.5	5212.2	1350.3	1571.6	1708.4	1485.8	1232.3	1113.0	1055.3	1387.9	1472.4
52.5°	9237.8	5150.6	1294.0	1536.7	1680.2	1471.0	1259.1	1102.3	1000.3	1261.8	1320.8
55°	10096.0	5168.0	1231.0	1487.1	1636.0	1442.9	1249.8	1059.3	942.7	1111.6	1147.8
57.5°	11192.9	5375.8	1155.9	1424.1	1575.6	1395.9	1216.2	1039.2	925.3	1008.4	1029.8
60°	12417.1	5737.9	1062.0	1361.1	1500.5	1320.8	1190.8	1048.6	933.3	1000.3	1011.1
62.5°	13315.6	5948.4	981.6	1268.5	1398.6	1237.7	1158.6	1060.7	954.8	1028.5	1025.8
65°	13559.6	5602.5	881.0	1133.1	1260.5	1150.5	1118.3	1074.1	964.1	1051.3	1039.2
66°	13217.7	5229.7	836.7	1070.1	1190.8	1107.6	1098.2	1072.8	960.1	1054.0	1033.9
67.5°	12387.6	4465.3	760.3	977.5	1079.5	1043.3	1066.0	1060.7	949.4	1051.3	1023.1
70°	10102.7	3046.6	650.4	814.0	898.4	918.5	1004.4	1017.8	914.5	1004.4	942.7
72.5°	7058.7	1855.9	575.3	631.6	726.8	783.1	919.9	958.8	867.6	877.0	818.0
75°	3411.4	985.6	521.6	489.4	564.5	654.4	818.0	878.3	793.8	733.5	712.0
77.5°	1063.4	602.1	442.5	394.2	442.5	528.3	683.9	769.7	706.7	614.2	606.1
80°	571.2	442.5	340.6	316.5	350.0	414.4	537.7	642.3	607.4	551.1	492.1
82.5°	376.8	287.0	252.1	245.4	266.8	316.5	399.6	532.4	532.4	472.0	343.3
85°	194.4	175.7	173.0	173.0	186.4	210.5	272.2	410.3	437.1	249.4	206.5
87.5°	96.5	100.6	93.9	97.9	104.6	103.3	130.1	206.5	246.7	151.5	126.0
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)