

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: P192325

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34221 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

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

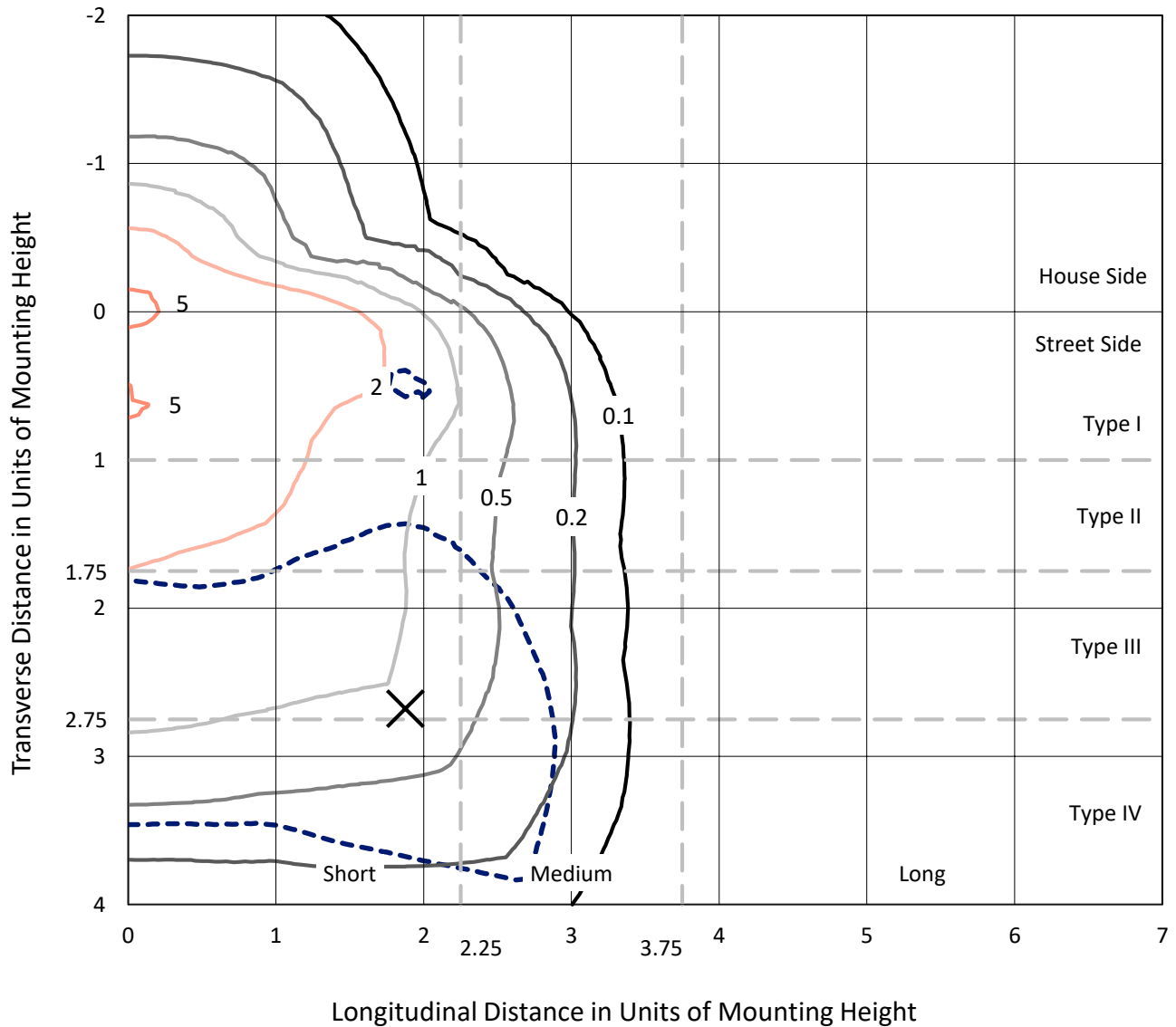


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

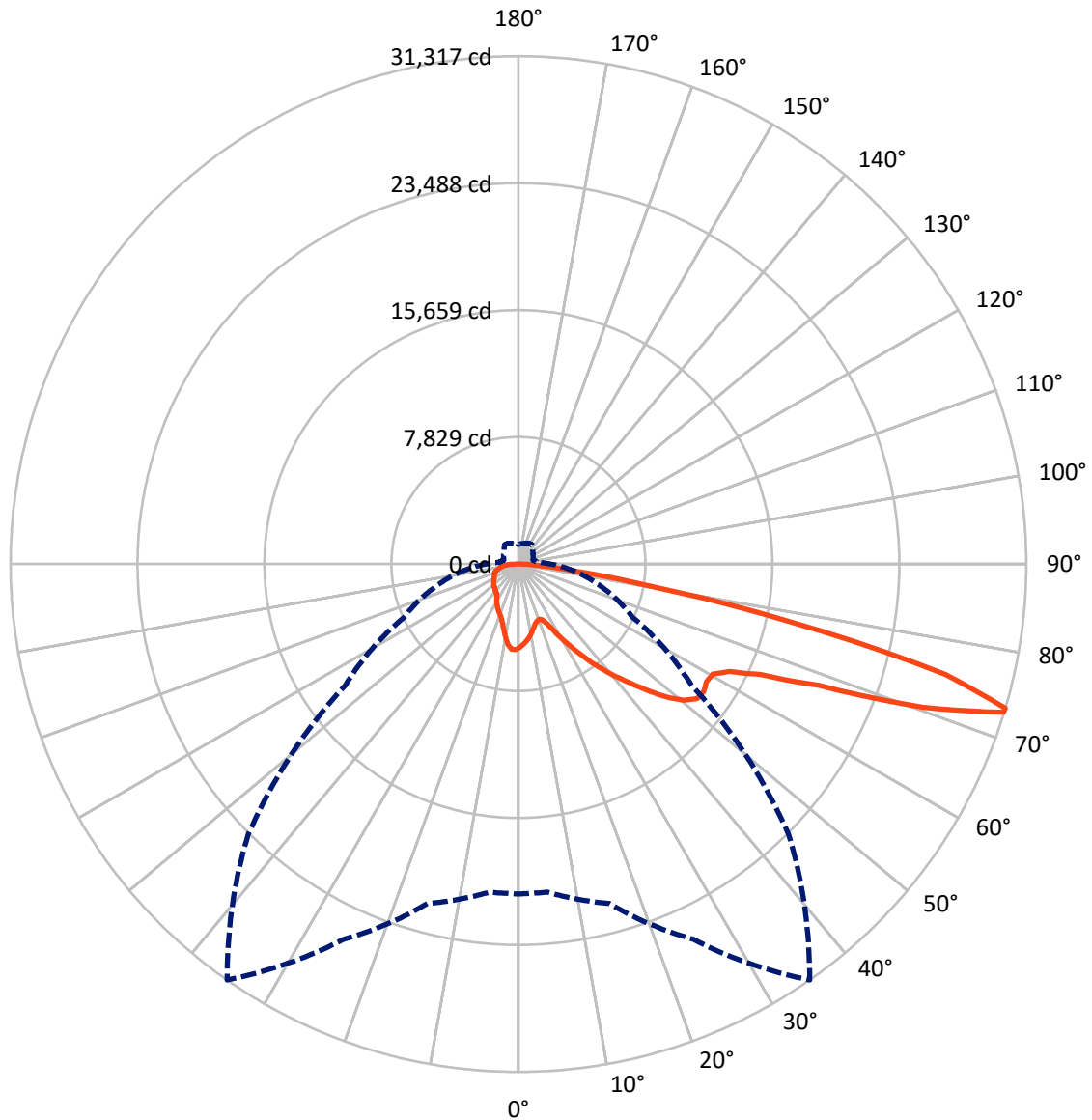


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6526.9	0.0	6526.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	27694.1	0.0	27694.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	34221.0	0.0	34221.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.6	1.4
10°-20°	1167.0	3.4
20°-30°	1886.6	5.5
30°-40°	3163.6	9.2
40°-50°	4876.6	14.3
50°-60°	6542.5	19.1
60°-70°	8715.9	25.5
70°-80°	6647.6	19.4
80°-90°	753.5	2.2
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°	34221.0	100.0
0°-180°	34221.0	100.0



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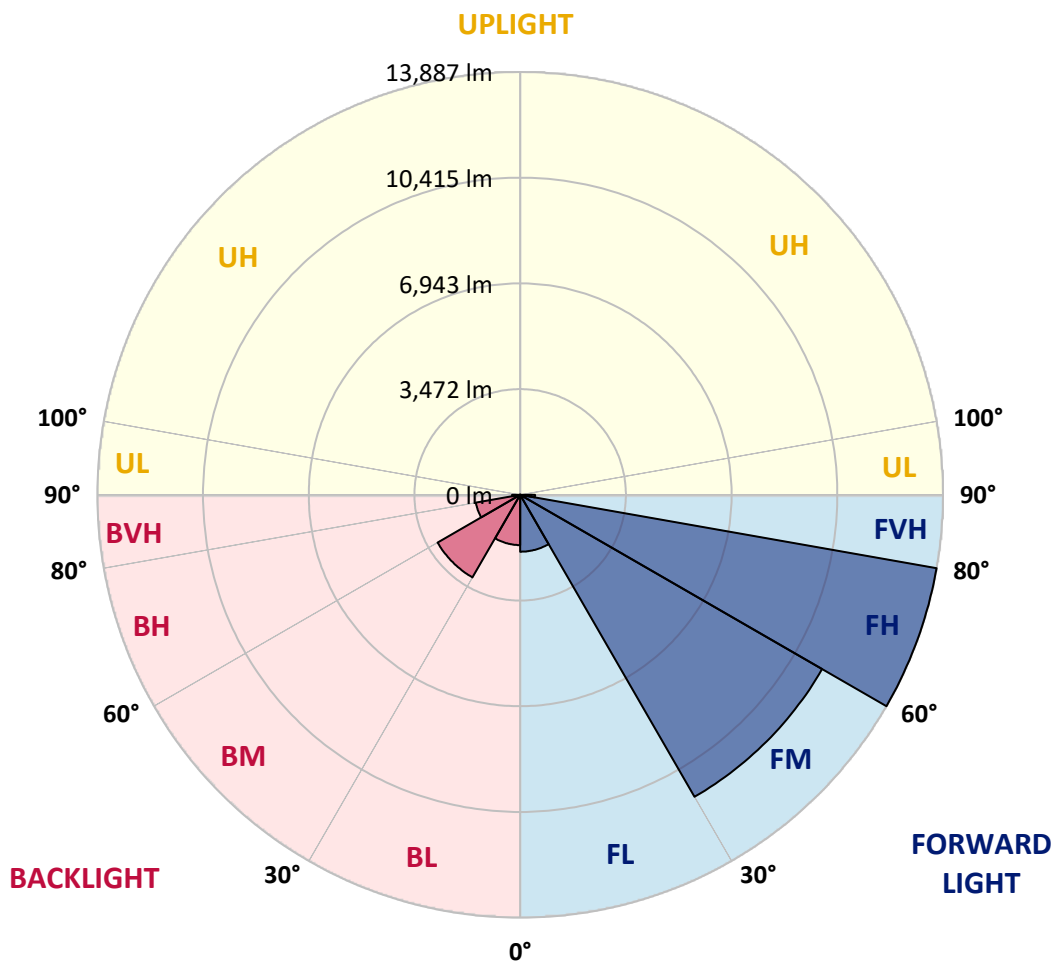
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1869.6	5.5			
FM	(30°-60°)	11450.6	33.5			
FH	(60°-80°)	13886.9	40.6			G5
FVH	(80°-90°)	487.0	1.4			G3/500
BL	(0°-30°)	1651.6	4.8	B3/2500		
BM	(30°-60°)	3132.2	9.2	B3/5000		
BH	(60°-80°)	1476.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	266.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0
2.5°	4961.2	4971.1	4959.6	4974.4	4999.0	5025.3	5043.4	5069.7	5099.3	5140.4	5150.2
5°	4727.9	4742.7	4742.7	4769.0	4816.6	4859.4	4898.8	4941.5	5004.0	5074.6	5102.6
7.5°	4471.5	4479.7	4494.5	4534.0	4603.0	4663.8	4719.7	4788.7	4874.1	4967.8	5017.1
10°	4162.6	4174.1	4197.1	4253.0	4346.6	4430.4	4511.0	4606.3	4714.7	4831.4	4893.9
12.5°	3944.0	3940.7	3950.6	3991.7	4073.8	4175.7	4292.4	4414.0	4547.1	4683.5	4759.1
15°	3870.1	3852.0	3814.2	3804.3	3848.7	3950.6	4085.3	4234.9	4394.3	4558.6	4652.3
17.5°	3916.1	3884.9	3781.3	3705.7	3699.2	3776.4	3919.4	4087.0	4271.0	4471.5	4588.2
20°	4205.3	4131.4	3876.6	3700.8	3640.0	3677.8	3802.7	3980.2	4197.1	4463.3	4612.9
22.5°	4897.1	4788.7	4248.0	3921.0	3715.6	3669.6	3763.2	3952.2	4205.3	4565.2	4755.8
25°	5904.5	5750.0	4885.6	4469.9	4045.9	3801.0	3822.4	4016.3	4322.0	4801.8	5031.9
27.5°	6699.9	6599.6	5718.8	5243.9	4647.4	4156.0	4014.7	4177.4	4560.3	5189.7	5424.7
30°	7173.2	7112.4	6609.5	6121.4	5414.8	4721.3	4382.8	4479.7	4933.3	5727.0	5920.9
32.5°	7722.0	7685.9	7439.4	6990.8	6243.0	5464.1	4966.2	4931.7	5432.9	6372.9	6461.6
35°	8290.6	8279.1	8134.5	7812.4	7132.1	6443.5	5740.2	5506.8	5976.8	7043.3	6987.5
37.5°	8819.8	8800.1	8716.3	8528.9	8062.2	7495.3	6529.0	6096.8	6563.5	7684.2	7436.1
40°	9794.3	9639.8	9352.2	9210.9	9002.2	8381.0	7155.1	6647.3	7171.5	8295.6	7823.9
42.5°	10982.4	10731.0	10195.3	10001.4	9971.8	9079.4	7582.4	7181.4	7784.5	8902.0	8205.2
45°	11917.5	11680.8	11219.1	10974.2	11082.7	9712.1	8011.3	7751.6	8415.5	9537.9	8597.9
47.5°	12915.0	12543.6	11932.3	12006.2	12242.9	10310.3	8448.4	8364.6	9107.4	10249.5	9086.0
50°	12951.1	12666.9	12399.0	12841.0	13209.2	10860.8	8995.6	9007.1	9953.7	11145.1	9735.1
52.5°	12200.1	12139.3	12565.0	13260.1	13790.9	11296.3	9618.5	9671.0	11036.7	12173.8	10448.3
55°	11937.2	11868.2	12359.5	13113.8	13869.8	11656.2	10293.9	10389.2	12346.4	13258.5	11143.5
57.5°	12578.1	12425.3	12458.1	13044.8	13677.5	12050.6	11030.1	11222.4	13769.5	14206.7	11590.5
60°	14369.3	14042.3	13421.1	13406.4	13781.0	12642.2	11881.3	12116.3	15248.5	14660.2	11416.3
62.5°	16882.0	16555.0	15391.5	14633.9	14578.1	13618.3	12926.5	12988.9	16103.1	14045.6	10353.0
65°	19601.7	19309.2	18009.3	16939.5	16423.5	15235.4	14140.9	13378.4	15823.7	12354.6	8492.8
67.5°	22903.2	22589.3	21471.9	20484.2	19987.9	17845.0	14993.8	13005.4	14050.5	9570.8	6105.0
70°	25212.1	24891.6	24451.2	25251.5	26466.0	21609.9	15103.9	11488.6	10494.4	6361.4	3674.5
72.5°	22199.9	22050.3	22853.9	26224.4	31282.6	23894.1	13652.9	8364.6	6095.1	3377.1	2126.5
73°	20339.6	20306.7	21677.3	25542.4	31317.1	23542.5	13016.9	7774.6	5227.5	2987.6	1944.1
75°	9184.6	9449.2	12453.2	19509.7	27208.8	19399.6	9161.6	4460.0	2953.1	2064.0	1467.5
77.5°	2207.0	2299.0	3896.4	9265.1	17182.7	11560.9	4151.1	2205.4	1888.2	1457.6	1071.5
80°	940.0	971.2	1500.4	3423.1	8090.2	4655.6	1912.8	1477.4	1306.5	1017.2	751.0
82.5°	522.6	555.4	851.2	1553.0	3265.3	1587.5	1166.8	1028.7	859.5	613.0	488.1
85°	295.8	313.9	497.9	867.7	1383.7	637.6	698.4	683.6	484.8	315.5	239.9
87.5°	139.7	151.2	239.9	402.6	542.3	249.8	355.0	391.1	304.0	192.3	124.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0
2.5°	5161.7	5191.3	5225.8	5243.9	5260.3	5280.0	5299.8	5299.8	5303.1	5304.7
5°	5125.6	5186.4	5240.6	5263.6	5268.5	5268.5	5263.6	5237.3	5214.3	5224.2
7.5°	5050.0	5138.7	5184.7	5176.5	5114.1	5041.8	4981.0	4907.0	4869.2	4862.6
10°	4941.5	5043.4	5051.6	4969.5	4815.0	4660.5	4532.3	4407.4	4348.3	4333.5
12.5°	4821.6	4915.2	4862.6	4693.4	4445.2	4220.1	4057.4	3930.9	3875.0	3860.2
15°	4724.6	4788.7	4655.6	4389.4	4077.1	3838.8	3704.1	3610.4	3571.0	3559.5
17.5°	4673.7	4686.8	4443.6	4083.7	3751.7	3552.9	3469.1	3424.7	3409.9	3401.7
20°	4698.3	4606.3	4241.5	3799.4	3485.5	3345.8	3326.1	3314.6	3311.3	3306.4
22.5°	4821.6	4581.6	4055.8	3529.9	3252.2	3191.4	3207.8	3206.2	3202.9	3199.6
25°	5041.8	4603.0	3875.0	3273.5	3056.6	3043.5	3073.0	3073.0	3059.9	3059.9
27.5°	5332.6	4647.4	3672.9	3030.3	2879.1	2880.8	2903.8	2897.2	2882.4	2872.6
30°	5687.6	4675.3	3436.2	2811.8	2713.2	2706.6	2713.2	2685.2	2640.8	2637.6
32.5°	6050.8	4640.8	3161.8	2617.8	2537.3	2522.5	2517.6	2478.2	2427.2	2412.4
35°	6379.4	4514.3	2882.4	2463.4	2369.7	2336.8	2359.8	2346.7	2300.7	2289.2
37.5°	6619.4	4279.3	2631.0	2327.0	2249.7	2241.5	2256.3	2261.2	2207.0	2195.5
40°	6780.4	3960.4	2415.7	2211.9	2226.7	2195.5	2146.2	2111.7	2095.3	2090.3
42.5°	6910.2	3628.5	2234.9	2157.7	2231.7	2141.3	2034.5	1978.6	2008.2	2021.3
45°	7059.8	3304.8	2083.8	2090.3	2207.0	2078.8	1957.2	1903.0	1914.5	1917.8
47.5°	7265.2	2910.4	1921.1	1981.9	2124.8	2036.1	1909.6	1832.3	1778.1	1753.4
50°	7549.5	2443.6	1751.8	1860.3	2044.3	2004.9	1835.6	1753.4	1653.2	1630.2
52.5°	7746.7	2008.2	1612.1	1758.4	1972.0	1942.4	1776.4	1669.6	1564.5	1544.7
55°	7639.9	1668.0	1490.5	1645.0	1876.7	1865.2	1727.1	1584.2	1502.0	1485.6
57.5°	7105.8	1452.7	1396.8	1538.2	1760.0	1799.5	1661.4	1511.9	1452.7	1441.2
60°	6086.9	1318.0	1337.7	1465.9	1664.7	1733.7	1595.7	1472.4	1433.0	1424.8
62.5°	4723.0	1227.6	1293.3	1413.3	1590.8	1687.7	1559.5	1467.5	1452.7	1442.9
65°	3383.6	1155.3	1245.7	1360.7	1523.4	1645.0	1546.4	1460.9	1464.2	1456.0
67.5°	2299.0	1091.2	1188.1	1301.5	1457.6	1607.2	1528.3	1437.9	1479.0	1469.1
70°	1608.8	1028.7	1120.8	1225.9	1375.5	1554.6	1495.4	1403.4	1400.1	1360.7
72.5°	1255.5	946.6	1028.7	1120.8	1270.3	1480.6	1429.7	1326.2	1271.9	1230.9
73°	1198.0	926.8	1005.7	1097.7	1247.3	1462.6	1411.6	1304.8	1244.0	1206.2
75°	990.9	841.4	913.7	995.9	1148.7	1377.1	1322.9	1207.9	1130.6	1107.6
77.5°	778.9	719.8	788.8	862.8	1012.3	1252.2	1191.4	1081.3	1038.6	1018.9
80°	576.8	596.5	657.3	723.1	877.5	1119.1	1064.9	954.8	1145.4	1097.7
82.5°	405.9	451.9	507.8	567.0	736.2	989.3	923.6	810.2	838.1	696.8
85°	239.9	295.8	348.4	399.3	530.8	820.0	762.5	645.8	529.2	504.5
87.5°	139.7	164.3	179.1	231.7	364.8	617.9	537.4	478.2	274.4	185.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)