

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: P192316

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192316
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-08-LED-E1-T4FT-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA 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: 31620 lumens
Efficiency: N/A
Efficacy: 123.0 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): 257
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

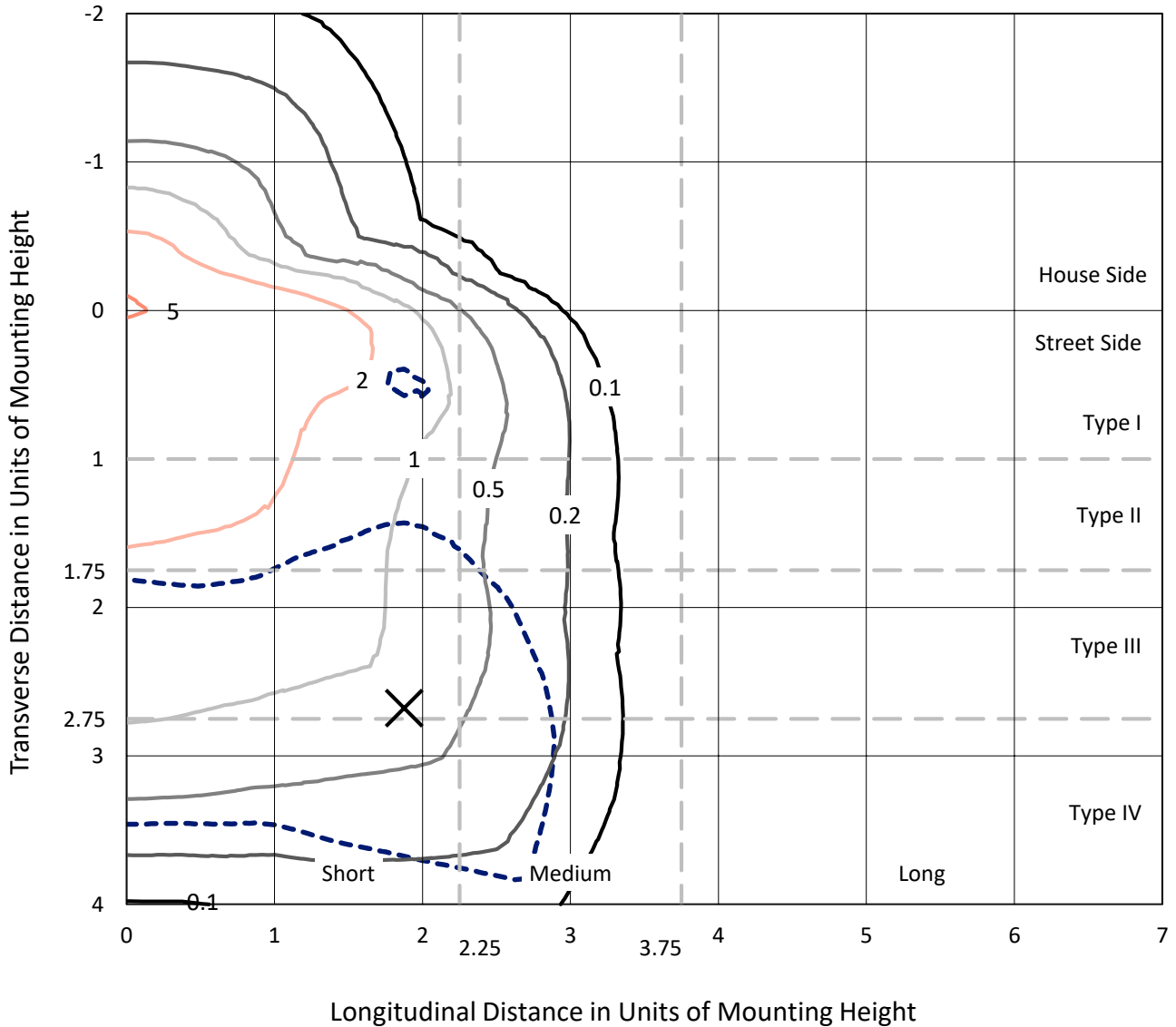


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

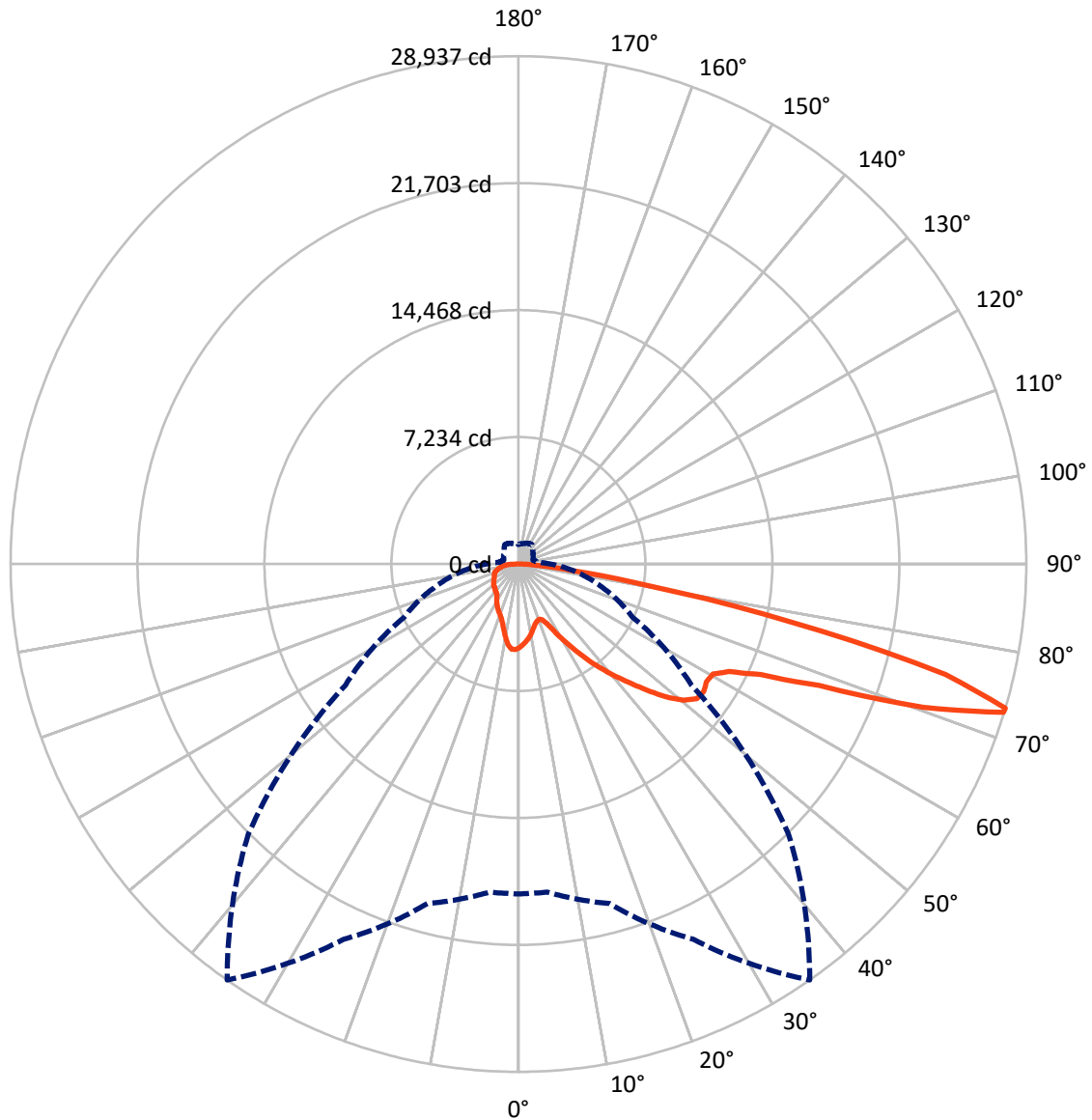


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Non-Cutoff

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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	6030.8	0.0	6030.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	25589.2	0.0	25589.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	31620.0	0.0	31620.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.0	1.4
10°-20°	1078.3	3.4
20°-30°	1743.2	5.5
30°-40°	2923.2	9.2
40°-50°	4506.0	14.3
50°-60°	6045.2	19.1
60°-70°	8053.5	25.5
70°-80°	6142.3	19.4
80°-90°	696.2	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°	31620.0	100.0
0°-180°	31620.0	100.0



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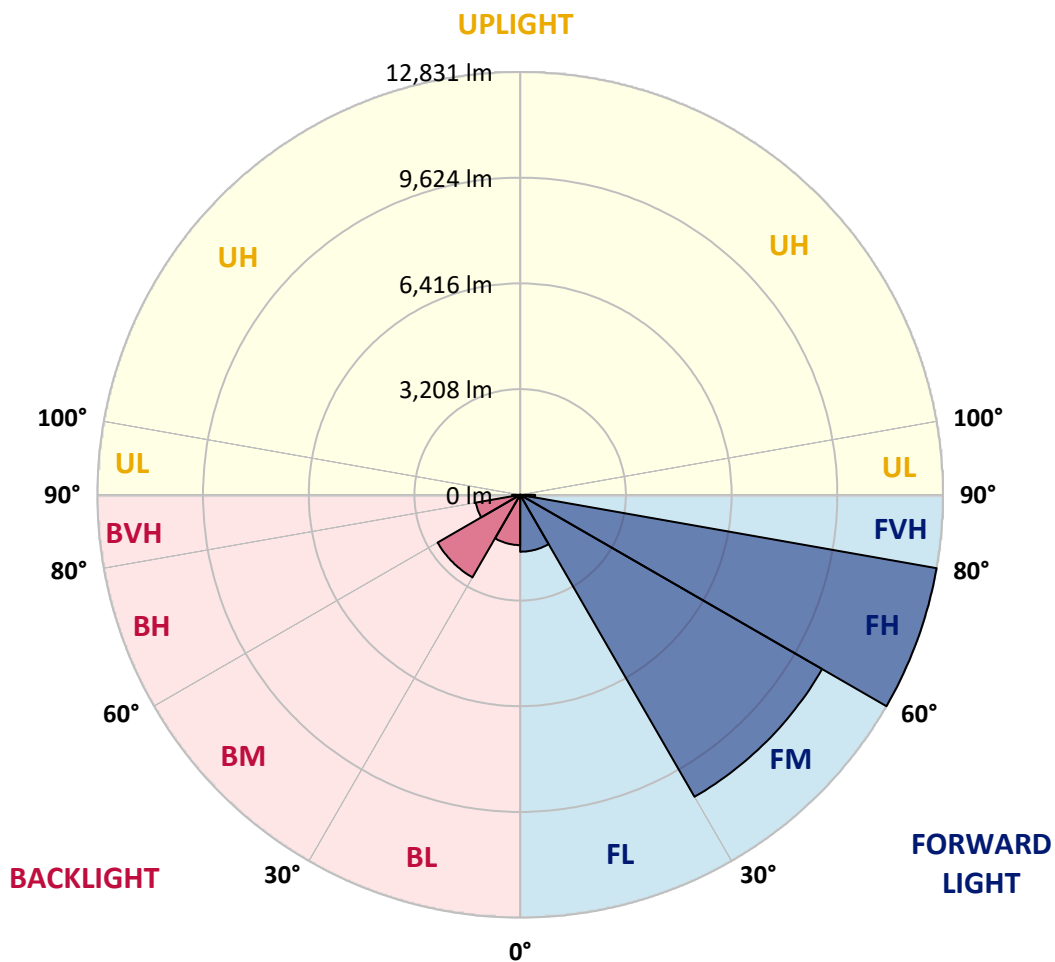
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1727.5	5.5			
FM (30°-60°)	10580.3	33.5			
FH (60°-80°)	12831.4	40.6			G5
FVH (80°-90°)	450.0	1.4			G3/500
BL (0°-30°)	1526.1	4.8	B3/2500		
BM (30°-60°)	2894.1	9.2	B3/5000		
BH (60°-80°)	1364.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	246.2	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°	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4
2.5°	4584.2	4593.3	4582.6	4596.3	4619.1	4643.4	4660.1	4684.4	4711.7	4749.7	4758.8
5°	4368.5	4382.2	4382.2	4406.5	4450.5	4490.0	4526.5	4565.9	4623.6	4688.9	4714.7
7.5°	4131.7	4139.3	4152.9	4189.4	4253.1	4309.3	4360.9	4424.7	4503.7	4590.2	4635.8
10°	3846.2	3856.8	3878.1	3929.7	4016.3	4093.7	4168.1	4256.2	4356.4	4464.2	4521.9
12.5°	3644.2	3641.2	3650.3	3688.3	3764.2	3858.3	3966.2	4078.5	4201.5	4327.5	4397.4
15°	3575.9	3559.2	3524.3	3515.2	3556.2	3650.3	3774.8	3913.0	4060.3	4212.1	4298.7
17.5°	3618.4	3589.6	3493.9	3424.1	3418.0	3489.4	3621.5	3776.3	3946.4	4131.7	4239.5
20°	3885.7	3817.3	3582.0	3419.5	3363.3	3398.3	3513.7	3677.6	3878.1	4124.1	4262.2
22.5°	4524.9	4424.7	3925.2	3623.0	3433.2	3390.7	3477.2	3651.8	3885.7	4218.2	4394.4
25°	5455.7	5313.0	4514.3	4130.1	3738.4	3512.1	3531.9	3711.1	3993.5	4436.9	4649.4
27.5°	6190.7	6098.0	5284.2	4845.3	4294.1	3840.1	3709.5	3859.9	4213.7	4795.2	5012.4
30°	6628.0	6571.8	6107.1	5656.2	5003.2	4362.5	4049.7	4139.3	4558.3	5291.7	5470.9
32.5°	7135.1	7101.7	6874.0	6459.4	5768.5	5048.8	4588.7	4556.8	5019.9	5888.5	5970.5
35°	7660.5	7649.9	7516.3	7218.6	6590.0	5953.8	5303.9	5088.3	5522.5	6508.0	6456.4
37.5°	8149.4	8131.2	8053.8	7880.7	7449.4	6925.6	6032.7	5633.4	6064.6	7100.2	6870.9
40°	9049.9	8907.1	8641.4	8510.8	8318.0	7744.0	6611.3	6142.1	6626.4	7665.1	7229.3
42.5°	10147.7	9915.4	9420.4	9241.2	9213.9	8389.4	7006.1	6635.6	7192.8	8225.4	7581.5
45°	11011.7	10793.0	10366.4	10140.1	10240.3	8973.9	7402.4	7162.5	7775.9	8813.0	7944.5
47.5°	11933.4	11590.2	11025.4	11093.7	11312.3	9526.7	7806.3	7728.8	8415.2	9470.5	8395.4
50°	11966.8	11704.1	11456.6	11865.0	12205.2	10035.3	8311.9	8322.5	9197.2	10298.0	8995.2
52.5°	11272.9	11216.7	11610.0	12252.2	12742.7	10437.7	8887.4	8936.0	10197.8	11248.6	9654.2
55°	11029.9	10966.1	11420.1	12117.1	12815.6	10770.3	9511.5	9599.5	11408.0	12250.7	10296.5
57.5°	11622.1	11480.9	11511.3	12053.3	12637.9	11134.7	10191.7	10369.4	12723.0	13126.9	10709.5
60°	13277.2	12975.0	12401.1	12387.4	12733.6	11681.3	10978.3	11195.4	14089.6	13546.0	10548.6
62.5°	15598.9	15296.7	14221.7	13521.7	13470.0	12583.3	11944.0	12001.7	14879.1	12978.1	9566.1
65°	18111.9	17841.6	16640.5	15652.0	15175.2	14077.4	13066.1	12361.6	14621.0	11415.6	7847.3
67.5°	21162.4	20872.4	19839.9	18927.3	18468.7	16488.7	13854.2	12016.9	12982.6	8843.4	5641.0
70°	23295.8	22999.7	22592.8	23332.3	24454.4	19967.4	13955.9	10615.4	9696.7	5877.9	3395.2
72.5°	20512.5	20374.4	21116.9	24231.2	28904.9	22078.0	12615.2	7728.8	5631.9	3120.4	1964.9
73°	18793.7	18763.3	20029.7	23601.0	28936.8	21753.1	12027.5	7183.7	4830.1	2760.5	1796.3
75°	8486.5	8731.0	11506.7	18026.9	25140.7	17925.1	8465.3	4121.0	2728.6	1907.2	1356.0
77.5°	2039.3	2124.3	3600.2	8560.9	15876.8	10682.2	3835.6	2037.7	1744.7	1346.9	990.0
80°	868.5	897.4	1386.3	3162.9	7475.3	4301.7	1767.5	1365.1	1207.2	939.9	693.9
82.5°	482.9	513.2	786.5	1434.9	3017.1	1466.8	1078.1	950.5	794.1	566.4	451.0
85°	273.3	290.0	460.1	801.7	1278.5	589.2	645.3	631.7	447.9	291.5	221.7
87.5°	129.1	139.7	221.7	372.0	501.1	230.8	328.0	361.4	280.9	177.7	115.4
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°	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4	4772.4
2.5°	4769.4	4796.7	4828.6	4845.3	4860.5	4878.7	4897.0	4897.0	4900.0	4901.5
5°	4736.0	4792.2	4842.3	4863.5	4868.1	4868.1	4863.5	4839.3	4818.0	4827.1
7.5°	4666.1	4748.1	4790.7	4783.1	4725.4	4658.6	4602.4	4534.0	4499.1	4493.0
10°	4565.9	4660.1	4667.7	4591.7	4449.0	4306.3	4187.8	4072.4	4017.8	4004.1
12.5°	4455.1	4541.6	4493.0	4336.6	4107.4	3899.3	3749.0	3632.1	3580.5	3566.8
15°	4365.5	4424.7	4301.7	4055.7	3767.2	3547.1	3422.6	3336.0	3299.6	3288.9
17.5°	4318.4	4330.6	4105.8	3773.3	3466.6	3282.9	3205.4	3164.4	3150.8	3143.2
20°	4341.2	4256.2	3919.1	3510.6	3220.6	3091.5	3073.3	3062.7	3059.6	3055.1
22.5°	4455.1	4233.4	3747.5	3261.6	3005.0	2948.8	2964.0	2962.5	2959.4	2956.4
25°	4658.6	4253.1	3580.5	3024.7	2824.3	2812.1	2839.5	2839.5	2827.3	2827.3
27.5°	4927.3	4294.1	3393.7	2800.0	2660.3	2661.8	2683.1	2677.0	2663.3	2654.2
30°	5255.3	4319.9	3175.0	2598.0	2506.9	2500.9	2506.9	2481.1	2440.1	2437.1
32.5°	5590.9	4288.1	2921.5	2418.9	2344.5	2330.8	2326.2	2289.8	2242.7	2229.1
35°	5894.6	4171.1	2663.3	2276.1	2189.6	2159.2	2180.5	2168.3	2125.8	2115.2
37.5°	6116.3	3954.0	2431.0	2150.1	2078.7	2071.1	2084.8	2089.4	2039.3	2028.6
40°	6265.1	3659.4	2232.1	2043.8	2057.5	2028.6	1983.1	1951.2	1936.0	1931.4
42.5°	6385.0	3352.7	2065.1	1993.7	2062.0	1978.5	1879.8	1828.2	1855.5	1867.7
45°	6523.2	3053.6	1925.4	1931.4	2039.3	1920.8	1808.5	1758.3	1769.0	1772.0
47.5°	6713.0	2689.1	1775.1	1831.2	1963.3	1881.3	1764.4	1693.1	1642.9	1620.2
50°	6975.7	2257.9	1618.7	1718.9	1888.9	1852.5	1696.1	1620.2	1527.5	1506.3
52.5°	7157.9	1855.5	1489.6	1624.7	1822.1	1794.8	1641.4	1542.7	1445.5	1427.3
55°	7059.2	1541.2	1377.2	1520.0	1734.1	1723.4	1595.9	1463.8	1387.8	1372.7
57.5°	6565.7	1342.3	1290.7	1421.3	1626.2	1662.7	1535.1	1397.0	1342.3	1331.7
60°	5624.3	1217.8	1236.0	1354.4	1538.2	1601.9	1474.4	1360.5	1324.1	1316.5
62.5°	4364.0	1134.3	1195.0	1305.9	1469.8	1559.4	1441.0	1356.0	1342.3	1333.2
65°	3126.5	1067.5	1151.0	1257.3	1407.6	1520.0	1428.8	1349.9	1352.9	1345.3
67.5°	2124.3	1008.2	1097.8	1202.6	1346.9	1485.0	1412.1	1328.6	1366.6	1357.5
70°	1486.5	950.5	1035.6	1132.8	1270.9	1436.4	1381.8	1296.7	1293.7	1257.3
72.5°	1160.1	874.6	950.5	1035.6	1173.8	1368.1	1321.0	1225.4	1175.3	1137.3
73°	1106.9	856.4	929.3	1014.3	1152.5	1351.4	1304.3	1205.6	1149.5	1114.5
75°	915.6	777.4	844.2	920.2	1061.4	1272.4	1222.3	1116.0	1044.7	1023.4
77.5°	719.7	665.1	728.8	797.2	935.4	1157.0	1100.9	999.1	959.7	941.4
80°	533.0	551.2	607.4	668.1	810.8	1034.1	983.9	882.2	1058.3	1014.3
82.5°	375.1	417.6	469.2	523.9	680.3	914.1	853.4	748.6	774.4	643.8
85°	221.7	273.3	321.9	369.0	490.5	757.7	704.6	596.7	488.9	466.2
87.5°	129.1	151.8	165.5	214.1	337.1	570.9	496.5	441.9	253.6	171.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)