

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: P191524

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191524
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-06-LED-E1-T4FT-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 29600.1 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

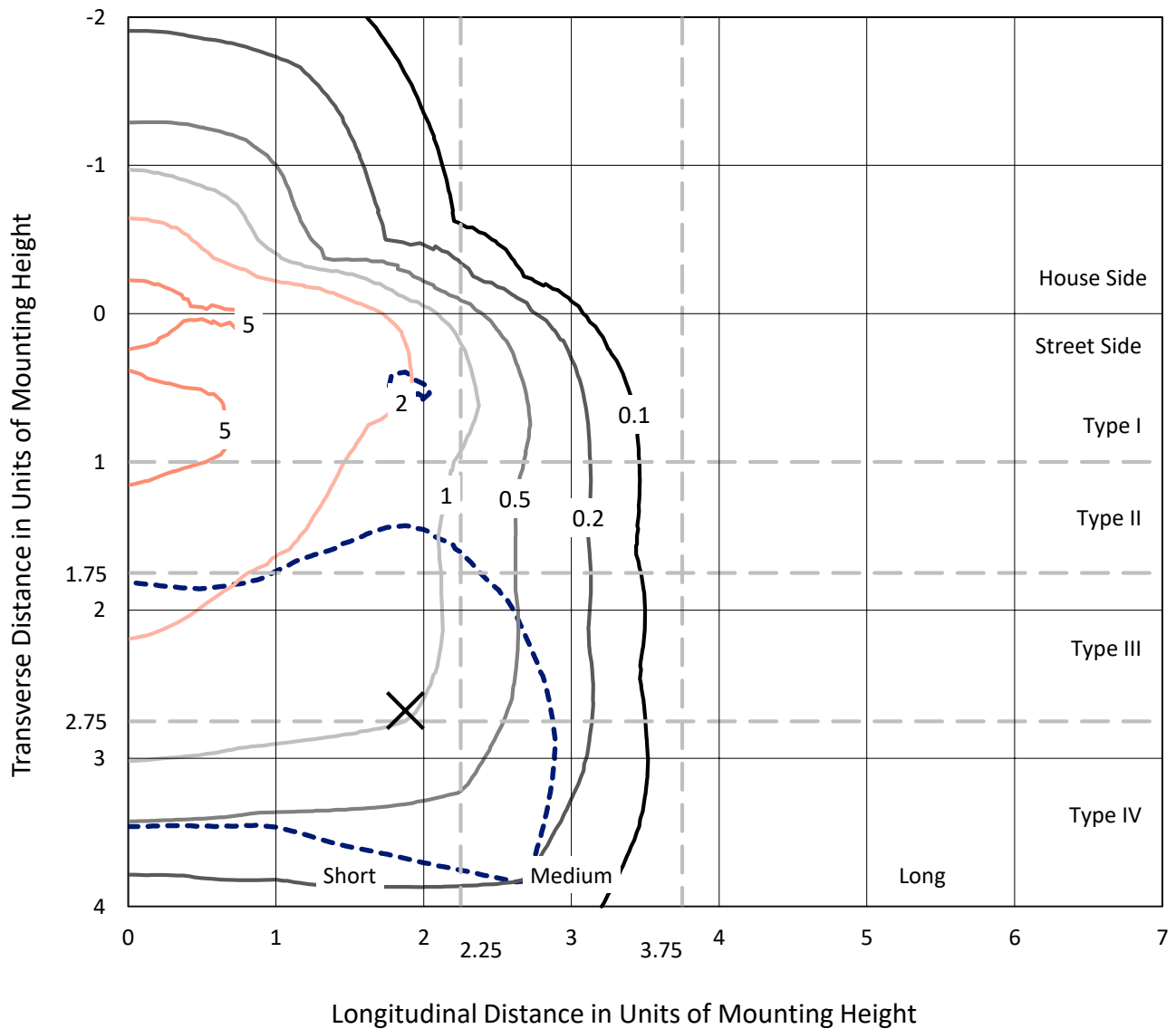
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

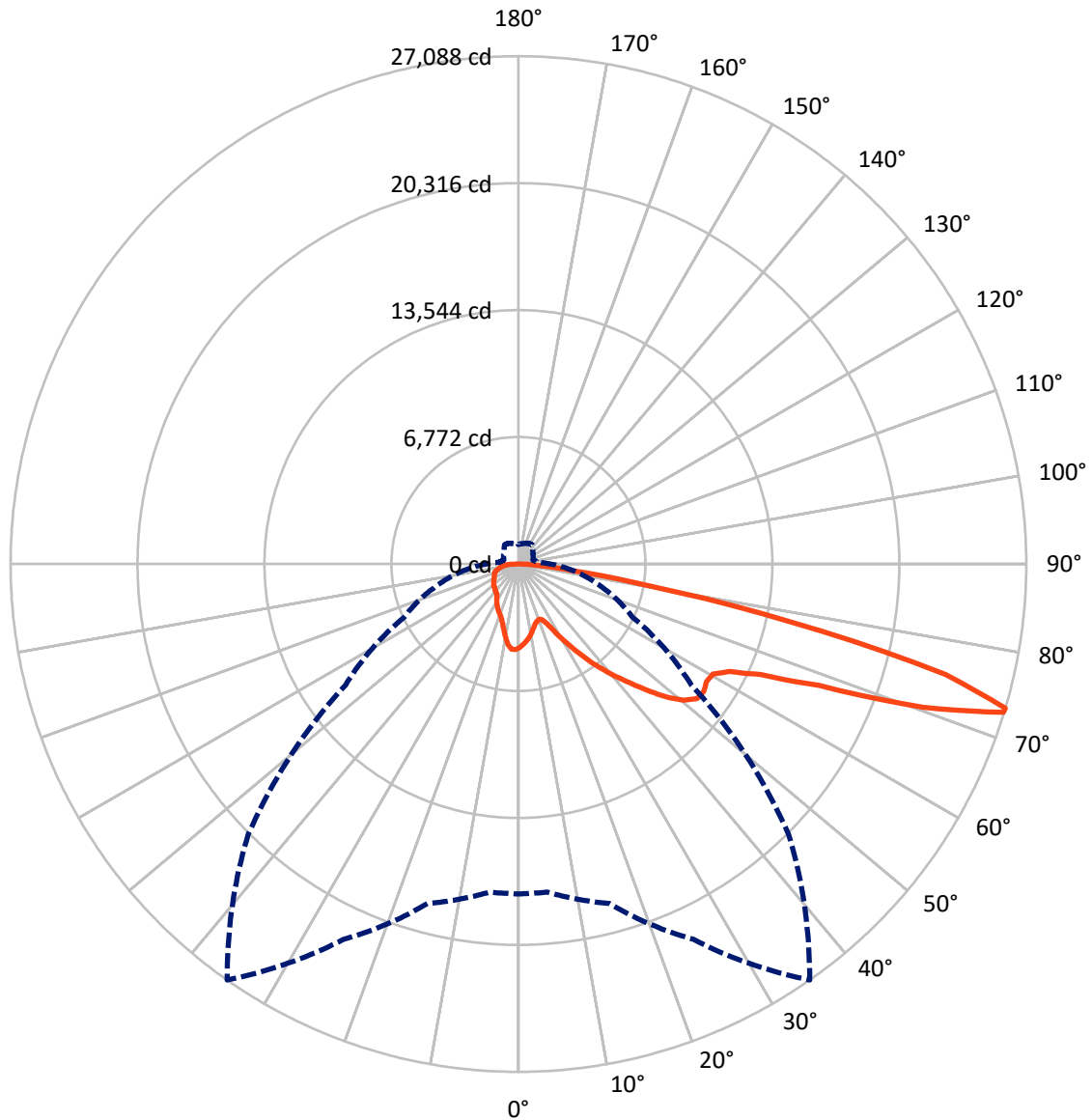
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	5645.6	0.0	5645.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	23954.6	0.0	23954.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	29600.1	0.0	29600.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.4	1.4
10°-20°	1009.4	3.4
20°-30°	1631.9	5.5
30°-40°	2736.5	9.2
40°-50°	4218.1	14.3
50°-60°	5659.1	19.1
60°-70°	7539.0	25.5
70°-80°	5750.0	19.4
80°-90°	651.7	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°	29600.1	100.0
0°-180°	29600.1	100.0



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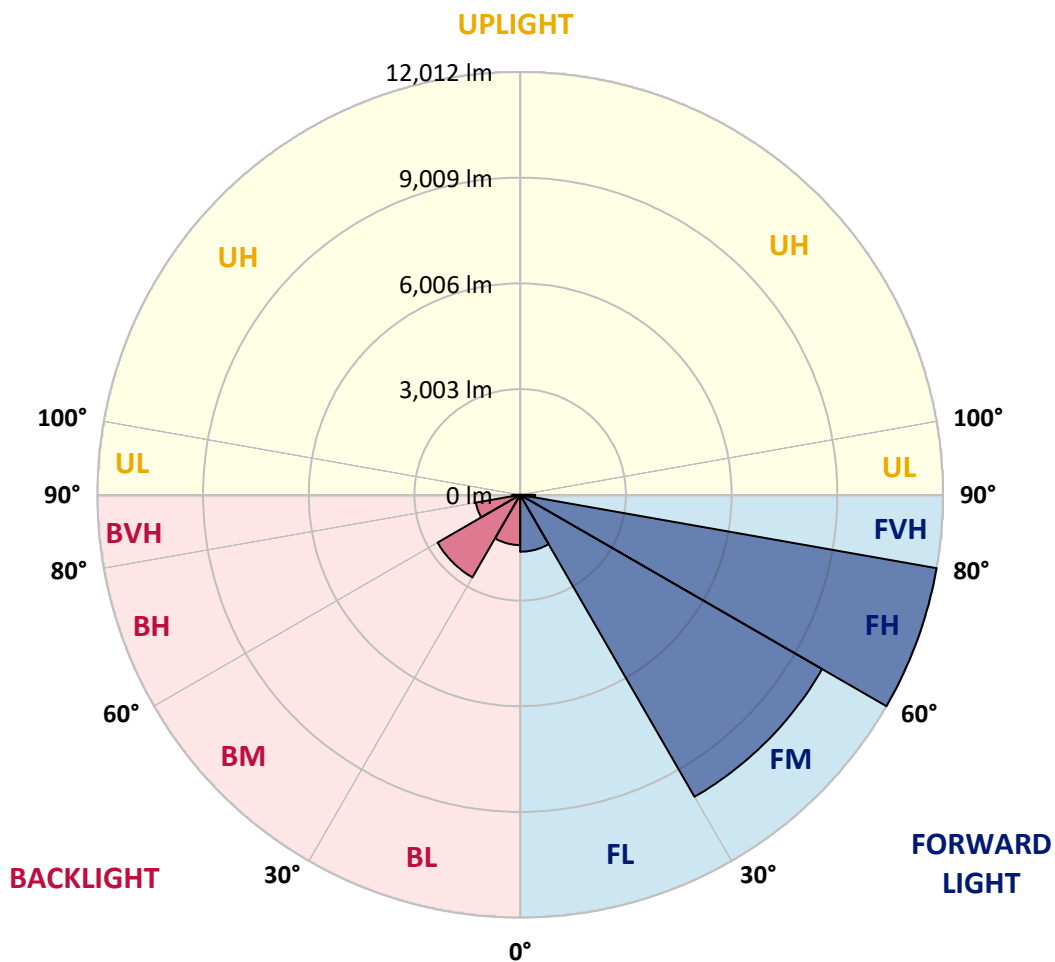
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1617.2	5.5			
FM	(30°-60°)	9904.4	33.5			
FH	(60°-80°)	12011.7	40.6			G5
FVH	(80°-90°)	421.3	1.4			G3/500
BL	(0°-30°)	1428.6	4.8	B3/2500		
BM	(30°-60°)	2709.2	9.2	B3/5000		
BH	(60°-80°)	1277.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	230.5	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°	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5
2.5°	4291.3	4299.9	4289.8	4302.7	4324.0	4346.7	4362.4	4385.1	4410.8	4446.3	4454.7
5°	4089.5	4102.2	4102.2	4125.0	4166.3	4203.2	4237.3	4274.3	4328.3	4389.4	4413.5
7.5°	3867.8	3874.8	3887.6	3921.8	3981.4	4034.0	4082.4	4142.0	4216.0	4297.0	4339.7
10°	3600.5	3610.4	3630.4	3678.6	3759.7	3832.2	3901.8	3984.3	4078.1	4179.1	4233.1
12.5°	3411.4	3408.6	3417.2	3452.7	3523.8	3611.8	3712.8	3818.0	3933.1	4051.1	4116.5
15°	3347.5	3331.9	3299.1	3290.6	3329.0	3417.2	3533.7	3663.1	3800.9	3943.1	4024.1
17.5°	3387.3	3360.3	3270.7	3205.3	3199.7	3266.5	3390.2	3535.1	3694.3	3867.8	3968.6
20°	3637.4	3573.5	3353.1	3201.1	3148.4	3181.2	3289.2	3442.7	3630.4	3860.6	3990.0
22.5°	4235.8	4142.0	3674.4	3391.6	3213.9	3174.1	3255.1	3418.6	3637.4	3948.8	4113.6
25°	5107.2	4973.6	4225.9	3866.3	3499.6	3287.8	3306.3	3473.9	3738.4	4153.5	4352.5
27.5°	5795.2	5708.5	4946.6	4535.8	4019.8	3594.9	3472.6	3613.3	3944.5	4488.9	4692.2
30°	6204.6	6152.0	5717.1	5294.9	4683.7	4083.8	3791.0	3874.8	4267.1	4953.7	5121.4
32.5°	6679.4	6648.1	6434.9	6046.8	5400.1	4726.2	4295.6	4265.7	4699.2	5512.4	5589.1
35°	7171.2	7161.2	7036.1	6757.5	6169.0	5573.4	4965.1	4763.3	5169.8	6092.3	6043.9
37.5°	7628.9	7611.8	7539.2	7377.2	6973.6	6483.2	5647.4	5273.5	5677.2	6646.6	6432.0
40°	8471.8	8338.2	8089.4	7967.2	7786.6	7249.3	6189.0	5749.7	6203.2	7175.4	6767.4
42.5°	9499.4	9281.9	8818.6	8650.9	8625.3	7853.4	6558.5	6211.7	6733.4	7700.0	7097.2
45°	10308.3	10103.6	9704.1	9492.4	9586.2	8400.7	6929.5	6704.9	7279.2	8250.0	7437.0
47.5°	11171.0	10849.8	10321.1	10385.0	10589.7	8918.1	7307.7	7235.1	7877.6	8865.5	7859.1
50°	11202.3	10956.4	10724.7	11107.1	11425.5	9394.3	7781.0	7790.9	8609.7	9640.2	8420.6
52.5°	10552.8	10500.2	10868.3	11469.5	11928.7	9770.9	8319.7	8365.2	9546.4	10530.1	9037.5
55°	10325.4	10265.6	10690.7	11343.1	11997.0	10082.2	8903.9	8986.3	10679.3	11468.2	9638.8
57.5°	10879.7	10747.5	10775.9	11283.4	11830.6	10423.4	9540.7	9707.0	11910.2	12288.3	10025.4
60°	12429.1	12146.2	11608.9	11596.1	11920.1	10935.1	10277.0	10480.2	13189.5	12680.6	9874.7
62.5°	14602.4	14319.6	13313.2	12657.9	12609.6	11779.5	11181.1	11235.1	13928.7	12149.0	8955.0
65°	16954.9	16701.9	15577.5	14652.1	14205.8	13178.2	12231.4	11571.9	13687.0	10686.4	7346.0
67.5°	19810.6	19539.1	18572.5	17718.2	17288.9	15435.4	12969.2	11249.3	12153.3	8278.4	5280.7
70°	21807.7	21530.5	21149.5	21841.8	22892.2	18691.9	13064.4	9937.3	9077.3	5502.4	3178.3
72.5°	19202.2	19072.8	19767.9	22683.3	27058.5	20667.7	11809.3	7235.1	5272.1	2921.0	1839.4
73°	17593.1	17564.7	18750.2	22093.4	27088.4	20363.5	11259.2	6724.8	4521.5	2584.2	1681.5
75°	7944.4	8173.3	10771.7	16875.3	23534.7	16780.1	7924.5	3857.8	2554.3	1785.4	1269.4
77.5°	1909.0	1988.6	3370.2	8014.1	14862.6	9999.9	3590.6	1907.6	1633.2	1260.8	926.8
80°	813.0	840.0	1297.8	2960.8	6997.7	4026.9	1654.5	1277.9	1130.1	879.8	649.6
82.5°	452.0	480.5	736.3	1343.2	2824.4	1373.1	1009.2	889.9	743.4	530.2	422.2
85°	255.8	271.5	430.7	750.5	1196.9	551.5	604.2	591.4	419.3	272.9	207.6
87.5°	120.8	130.7	207.6	348.2	469.0	216.0	307.0	338.3	263.0	166.3	108.0
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°	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5	4467.5
2.5°	4464.8	4490.3	4520.2	4535.8	4550.0	4567.1	4584.1	4584.1	4587.0	4588.4
5°	4433.5	4486.0	4533.0	4552.8	4557.1	4557.1	4552.8	4530.1	4510.2	4518.8
7.5°	4368.1	4444.8	4484.6	4477.6	4423.5	4360.9	4308.4	4244.4	4211.7	4206.1
10°	4274.3	4362.4	4369.5	4298.4	4164.8	4031.2	3920.4	3812.3	3761.1	3748.3
12.5°	4170.5	4251.5	4206.1	4059.6	3845.0	3650.3	3509.5	3400.1	3351.7	3338.9
15°	4086.6	4142.0	4026.9	3796.7	3526.6	3320.5	3203.9	3122.9	3088.8	3078.9
17.5°	4042.6	4054.0	3843.5	3532.2	3245.1	3073.1	3000.6	2962.3	2949.5	2942.4
20°	4063.9	3984.3	3668.7	3286.3	3014.8	2894.0	2876.9	2867.0	2864.2	2860.0
22.5°	4170.5	3963.0	3508.1	3053.2	2813.0	2760.4	2774.7	2773.2	2770.4	2767.5
25°	4360.9	3981.4	3351.7	2831.5	2643.9	2632.5	2658.0	2658.0	2646.7	2646.7
27.5°	4612.6	4019.8	3176.9	2621.1	2490.4	2491.8	2511.7	2506.0	2493.2	2484.6
30°	4919.6	4044.0	2972.2	2432.1	2346.8	2341.1	2346.8	2322.6	2284.2	2281.4
32.5°	5233.7	4014.2	2734.9	2264.3	2194.7	2182.0	2177.7	2143.5	2099.5	2086.7
35°	5518.0	3904.7	2493.2	2130.7	2049.7	2021.2	2041.2	2029.8	1990.0	1980.0
37.5°	5725.6	3701.4	2275.8	2012.8	1946.0	1938.8	1951.6	1955.9	1909.0	1899.0
40°	5864.9	3425.7	2089.5	1913.2	1926.0	1899.0	1856.3	1826.6	1812.4	1808.1
42.5°	5977.1	3138.5	1933.2	1866.4	1930.3	1852.2	1759.8	1711.4	1737.0	1748.3
45°	6106.5	2858.5	1802.3	1808.1	1909.0	1798.1	1692.9	1646.0	1656.0	1658.8
47.5°	6284.2	2517.4	1661.7	1714.3	1837.9	1761.1	1651.8	1584.9	1538.0	1516.6
50°	6530.1	2113.7	1515.3	1609.1	1768.3	1734.1	1587.7	1516.6	1430.0	1410.0
52.5°	6700.6	1737.0	1394.4	1520.9	1705.8	1680.1	1536.6	1444.2	1353.2	1336.2
55°	6608.3	1442.8	1289.2	1422.8	1623.3	1613.3	1493.9	1370.2	1299.1	1284.9
57.5°	6146.3	1256.6	1208.2	1330.4	1522.4	1556.5	1437.0	1307.7	1256.6	1246.6
60°	5265.0	1140.0	1157.1	1267.9	1439.9	1499.6	1380.2	1273.6	1239.5	1232.3
62.5°	4085.3	1061.8	1118.7	1222.4	1376.0	1459.9	1349.0	1269.4	1256.6	1248.0
65°	2926.8	999.3	1077.5	1176.9	1317.7	1422.8	1337.6	1263.7	1266.5	1259.4
67.5°	1988.6	943.9	1027.7	1125.8	1260.8	1390.2	1322.0	1243.8	1279.3	1270.8
70°	1391.6	889.9	969.5	1060.4	1189.7	1344.7	1293.5	1213.9	1211.1	1176.9
72.5°	1086.0	818.8	889.9	969.5	1098.8	1280.7	1236.6	1147.1	1100.2	1064.7
73°	1036.2	801.7	869.9	949.5	1078.9	1265.1	1221.0	1128.6	1076.0	1043.3
75°	857.1	727.7	790.3	861.4	993.6	1191.1	1144.3	1044.7	977.9	958.1
77.5°	673.7	622.6	682.3	746.2	875.6	1083.1	1030.5	935.3	898.4	881.3
80°	498.9	516.0	568.6	625.4	759.0	968.0	921.1	825.8	990.7	949.5
82.5°	351.1	390.9	439.3	490.4	636.8	855.7	798.8	700.7	725.0	602.7
85°	207.6	255.8	301.4	345.5	459.1	709.3	659.5	558.6	457.7	436.4
87.5°	120.8	142.2	155.0	200.4	315.6	534.5	464.8	413.7	237.4	160.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)