

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: P192154

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23019 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

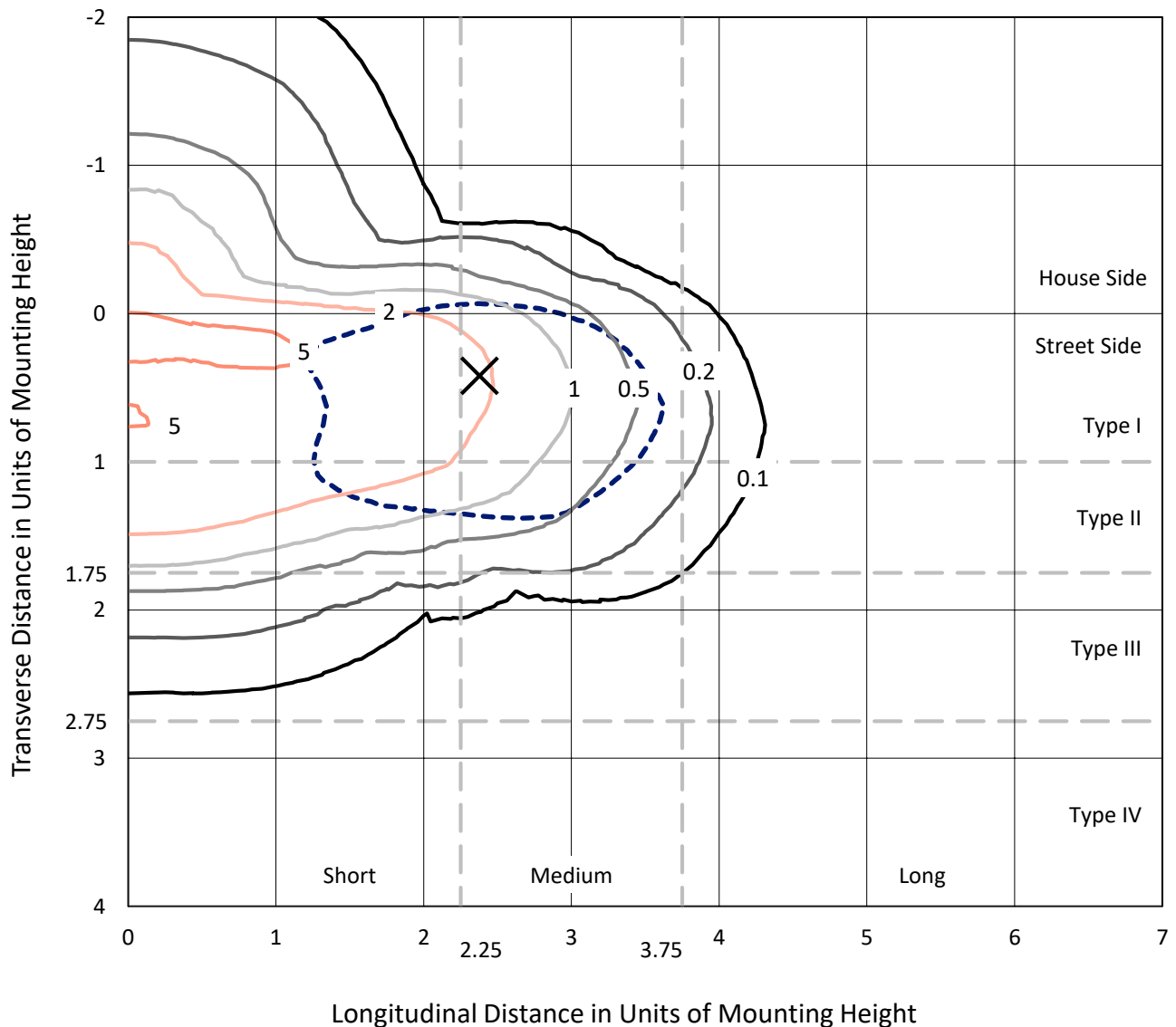
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

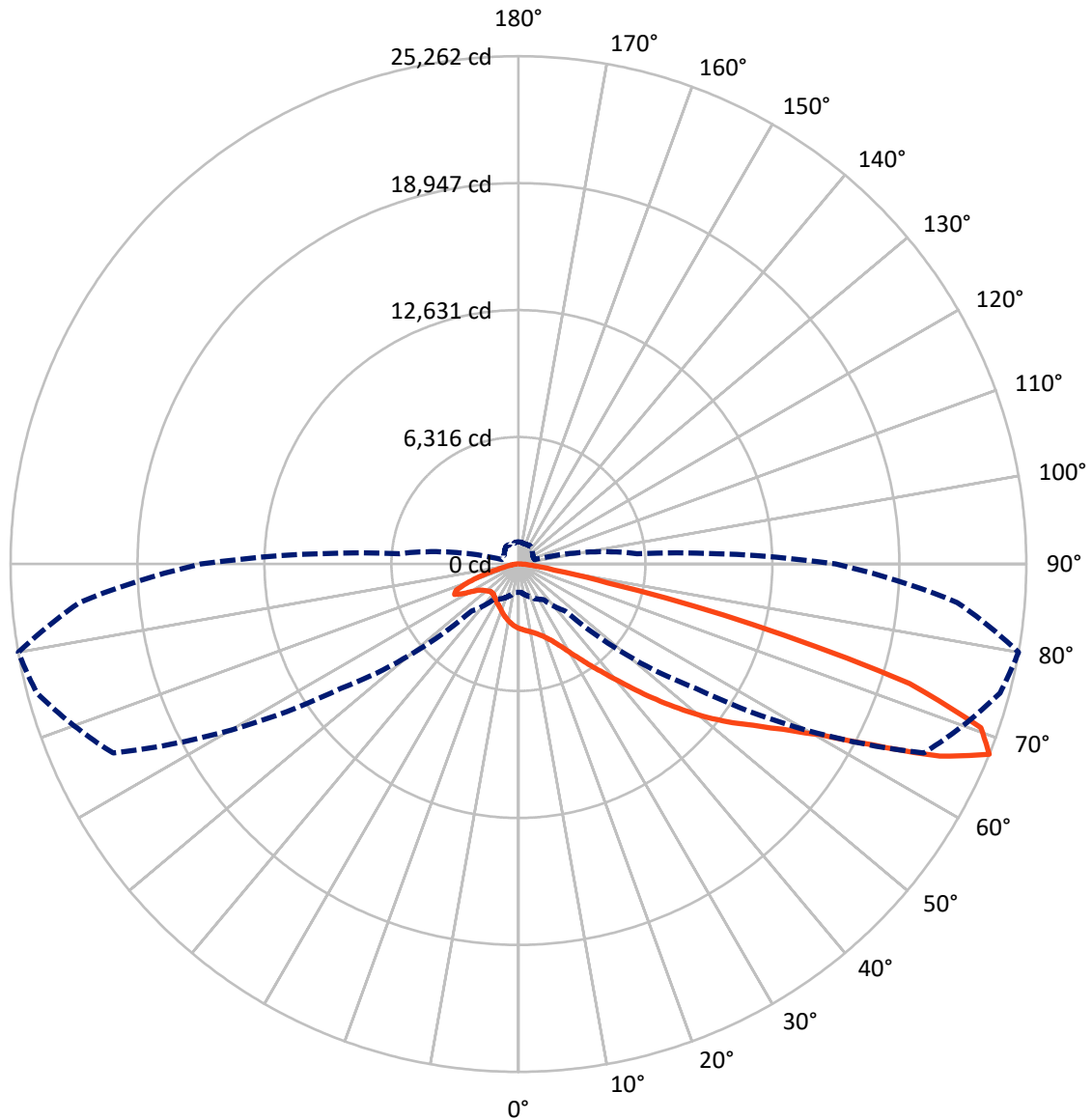
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4239.2	0.0	4239.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	18779.8	0.0	18779.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	23019.0	0.0	23019.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.0	1.3
10°-20°	849.8	3.7
20°-30°	1406.6	6.1
30°-40°	2300.9	10.0
40°-50°	3715.0	16.1
50°-60°	5363.4	23.3
60°-70°	5918.8	25.7
70°-80°	2728.2	11.9
80°-90°	441.3	1.9
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°	23019.0	100.0
0°-180°	23019.0	100.0



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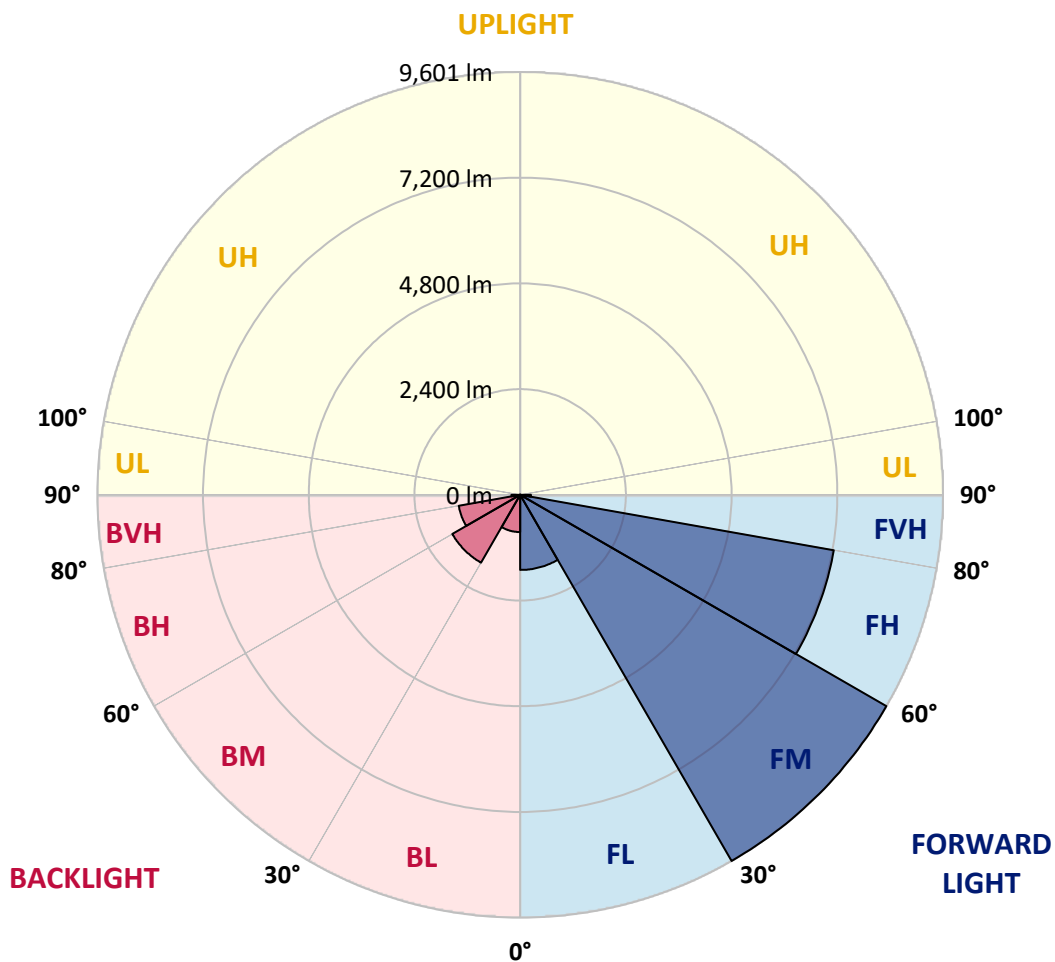
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.7	7.4			
FM (30°-60°)	9600.6	41.7			
FH (60°-80°)	7230.9	31.4			G3/7500
FVH (80°-90°)	242.6	1.1			G3/500
BL (0°-30°)	845.8	3.7	B2/1000		
BM (30°-60°)	1778.6	7.7	B2/2500		
BH (60°-80°)	1416.2	6.2	B3/2500		G3/2500
BVH (80°-90°)	198.7	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0
2.5°	3498.3	3477.9	3481.3	3475.7	3458.7	3429.2	3397.5	3339.7	3279.6	3247.9	3222.9
5°	3790.7	3785.0	3777.1	3759.0	3715.9	3654.7	3578.8	3476.8	3366.9	3309.1	3253.5
7.5°	4009.4	4006.0	3995.8	3984.5	3942.5	3868.9	3754.4	3609.4	3449.6	3370.3	3284.1
10°	4027.5	4033.2	4041.1	4071.7	4077.4	4037.7	3921.0	3745.4	3535.7	3433.7	3323.8
12.5°	3873.4	3885.9	3916.5	3994.7	4077.4	4126.1	4066.1	3888.2	3636.6	3513.0	3373.7
15°	3669.4	3676.2	3713.6	3821.3	3969.7	4120.5	4177.1	4045.7	3766.9	3615.0	3448.5
17.5°	3582.2	3585.6	3611.6	3683.0	3821.3	4036.6	4239.5	4216.8	3926.7	3742.0	3540.2
20°	3538.0	3545.9	3583.3	3653.6	3740.8	3928.9	4248.5	4401.5	4117.1	3900.6	3655.8
22.5°	3663.8	3660.4	3674.0	3709.1	3782.8	3896.1	4241.7	4591.9	4359.6	4104.6	3806.6
25°	3957.3	3969.7	3945.9	3906.3	3930.1	4009.4	4278.0	4798.1	4663.3	4366.4	4003.7
27.5°	4375.4	4363.0	4327.9	4234.9	4186.2	4220.2	4398.1	5020.3	5040.7	4710.9	4264.4
30°	4792.5	4782.3	4748.3	4635.0	4535.2	4506.9	4631.6	5275.2	5490.6	5124.5	4584.0
32.5°	5225.4	5214.0	5182.3	5069.0	4948.9	4883.1	4963.6	5569.9	6020.9	5618.6	4960.2
35°	5759.1	5737.6	5670.7	5513.2	5395.4	5344.4	5381.8	5940.5	6632.9	6203.4	5416.9
37.5°	6261.2	6294.0	6226.0	6008.4	5855.5	5837.3	5879.3	6392.6	7292.4	6857.2	5941.6
40°	6765.5	6771.1	6709.9	6532.0	6374.5	6345.0	6450.4	6941.1	8070.9	7639.2	6579.6
42.5°	7286.7	7298.1	7195.0	7030.6	6915.0	6920.7	7040.8	7583.7	8963.9	8560.5	7313.9
45°	7904.4	7921.4	7808.0	7592.7	7487.3	7699.2	7649.4	8304.4	9943.1	9607.6	8157.1
47.5°	8550.3	8576.4	8490.2	8288.5	8157.1	8448.3	8257.9	9103.3	10997.0	10730.7	9082.9
50°	8902.7	8940.1	9024.0	9009.3	8980.9	8932.2	8936.7	9960.1	12083.8	11900.2	10034.9
52.5°	8713.5	8712.4	9018.3	9390.0	9786.7	9816.1	9764.0	10863.3	13099.1	13043.6	10931.3
55°	7847.7	7906.6	8370.1	9089.7	10173.1	10849.7	11003.8	11897.9	14096.4	14161.0	11841.2
57.5°	6406.2	6454.9	7080.5	8083.4	9651.8	11463.9	12767.1	13401.7	15211.5	15512.9	13052.7
60°	4344.8	4403.8	5066.7	6271.4	8248.9	11121.6	14445.4	16085.2	16546.5	17232.1	14752.5
62.5°	2553.2	2606.5	3147.0	3956.1	5807.9	9531.7	15182.0	19903.1	18666.8	19826.1	17345.4
65°	1757.7	1793.9	2056.8	2462.5	3337.4	6419.8	14268.6	22539.0	21929.4	23039.9	20351.9
67.5°	1414.3	1409.8	1618.3	1894.8	2148.6	3310.2	10789.6	22241.0	24798.7	25262.2	21912.4
70°	1165.0	1160.4	1302.1	1531.0	1716.9	1864.2	5877.0	18768.8	24214.0	24402.1	20475.4
72.5°	974.6	979.1	1069.8	1239.8	1408.6	1404.1	2582.7	13203.4	19048.7	20349.6	16322.1
75°	822.7	825.0	885.1	1005.2	1143.4	1131.0	1400.7	7153.0	11072.9	11978.4	9047.8
77.5°	700.3	702.6	741.1	808.0	906.6	902.1	1022.2	3090.4	4619.1	4562.4	3094.9
80°	624.4	624.4	642.5	655.0	709.4	689.0	758.1	1484.5	1952.6	1803.0	1235.2
82.5°	489.6	491.8	602.9	598.4	558.7	532.6	532.6	874.9	1034.6	956.5	723.0
85°	275.4	274.2	388.7	469.2	491.8	375.1	371.7	489.6	563.2	496.4	350.2
87.5°	117.9	120.1	180.2	208.5	278.8	233.4	230.0	252.7	286.7	248.2	162.1
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°	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0
2.5°	3199.1	3169.7	3105.1	3024.6	2952.1	2904.5	2861.4	2799.1	2802.5	2759.4	2727.7
5°	3196.9	3135.7	2986.1	2808.2	2637.1	2513.5	2420.6	2336.7	2316.3	2276.7	2252.9
7.5°	3199.1	3099.4	2847.8	2563.4	2351.5	2195.1	2115.8	2071.6	2061.4	2047.8	2048.9
10°	3207.1	3066.6	2696.0	2334.5	2112.4	2009.2	1990.0	2003.6	2019.4	2024.0	2025.1
12.5°	3225.2	3037.1	2529.4	2130.5	1962.8	1931.0	1963.9	2010.4	2041.0	2055.7	2054.6
15°	3266.0	3014.4	2369.6	1970.7	1880.0	1897.0	1958.2	2024.0	2068.2	2088.6	2089.7
17.5°	3310.2	2981.6	2205.3	1848.3	1818.9	1861.9	1937.8	2014.9	2069.3	2092.0	2096.5
20°	3368.0	2940.8	2033.0	1756.5	1761.1	1809.8	1881.2	1958.2	2018.3	2037.6	2046.6
22.5°	3443.9	2896.6	1882.3	1681.7	1695.3	1732.7	1788.3	1855.1	1907.2	1916.3	1924.2
25°	3545.9	2849.0	1762.2	1613.7	1619.4	1640.9	1678.3	1718.0	1754.3	1744.1	1752.0
27.5°	3683.0	2808.2	1672.7	1551.4	1541.2	1545.7	1565.0	1577.5	1596.7	1568.4	1571.8
30°	3844.0	2764.0	1603.5	1497.0	1468.7	1460.7	1465.3	1472.1	1486.8	1448.3	1442.6
32.5°	4030.9	2710.7	1538.9	1449.4	1409.8	1393.9	1396.2	1414.3	1470.9	1447.1	1434.7
35°	4248.5	2650.7	1470.9	1397.3	1370.1	1347.4	1345.2	1401.8	1570.7	1555.9	1544.6
37.5°	4503.5	2590.6	1403.0	1338.4	1340.6	1315.7	1307.8	1372.4	1589.9	1532.1	1524.2
40°	4827.6	2558.9	1345.2	1276.0	1304.4	1301.0	1285.1	1318.0	1463.0	1357.6	1344.0
42.5°	5228.8	2563.4	1302.1	1209.2	1261.3	1297.6	1272.6	1273.8	1325.9	1246.6	1234.1
45°	5724.0	2616.7	1271.5	1155.9	1212.6	1294.2	1268.1	1250.0	1254.5	1212.6	1205.8
47.5°	6302.0	2726.6	1250.0	1111.7	1166.1	1281.7	1267.0	1243.2	1233.0	1210.3	1204.6
50°	6944.5	2886.4	1234.1	1069.8	1124.2	1261.3	1268.1	1236.4	1225.0	1216.0	1212.6
52.5°	7575.7	3068.8	1210.3	1033.5	1091.3	1236.4	1271.5	1229.6	1217.1	1210.3	1206.9
55°	8279.5	3296.6	1174.0	1002.9	1064.1	1204.6	1271.5	1219.4	1205.8	1206.9	1205.8
57.5°	9230.3	3664.9	1131.0	976.9	1031.3	1166.1	1250.0	1208.0	1191.0	1192.2	1193.3
60°	10715.9	4314.3	1078.8	950.8	990.5	1120.8	1220.5	1183.1	1166.1	1170.6	1171.8
62.5°	12900.8	5267.3	1010.9	912.3	947.4	1072.0	1179.7	1151.4	1134.4	1145.7	1145.7
65°	15171.8	6108.2	927.0	863.5	902.1	1018.8	1128.7	1111.7	1094.7	1120.8	1119.6
67.5°	15782.7	5920.1	843.1	810.3	856.7	959.9	1067.5	1058.4	1049.4	1094.7	1092.4
70°	14020.5	4752.8	766.1	755.9	806.9	896.4	1001.8	1001.8	996.1	1030.1	1022.2
72.5°	10681.9	3370.3	692.4	698.1	750.2	827.3	930.4	938.3	929.3	946.3	939.5
75°	5718.3	1928.8	618.8	634.6	679.9	757.0	851.1	859.0	853.3	852.2	855.6
77.5°	1900.4	942.9	541.7	566.6	606.3	684.5	768.3	780.8	767.2	764.9	763.8
80°	846.5	592.7	456.7	489.6	524.7	601.8	681.1	691.3	676.5	696.9	670.9
82.5°	544.0	389.8	366.0	402.3	436.3	519.0	593.8	596.1	582.5	676.5	576.8
85°	264.0	241.4	275.4	308.2	337.7	408.0	491.8	493.0	459.0	418.2	403.4
87.5°	131.5	140.5	183.6	213.0	227.8	279.9	358.1	351.3	336.6	306.0	282.2
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)