

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: P194721

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194721
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-03-LED-E1-T2-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19562 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 191
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



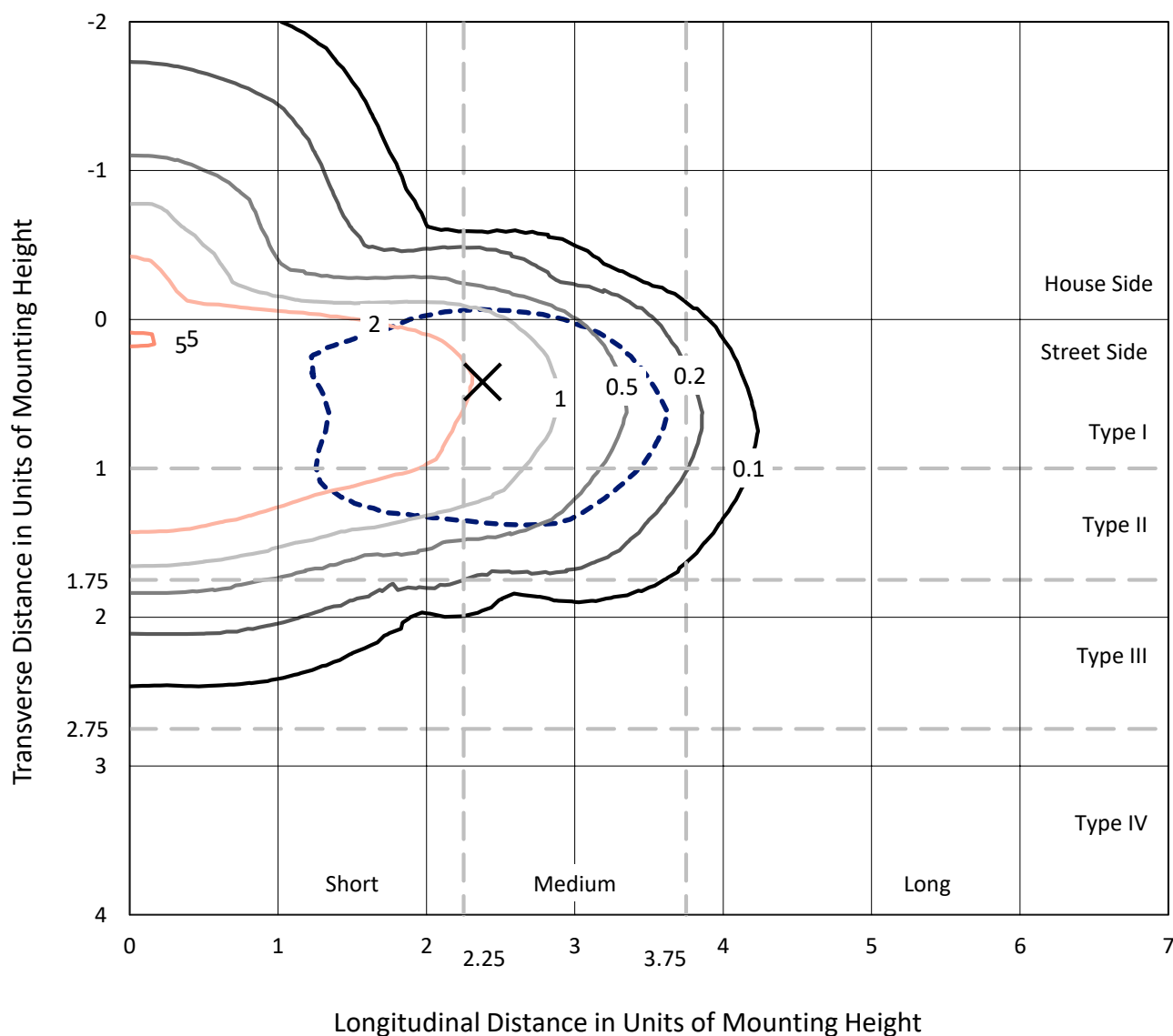
REPORT NUMBER: P194721

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7060-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

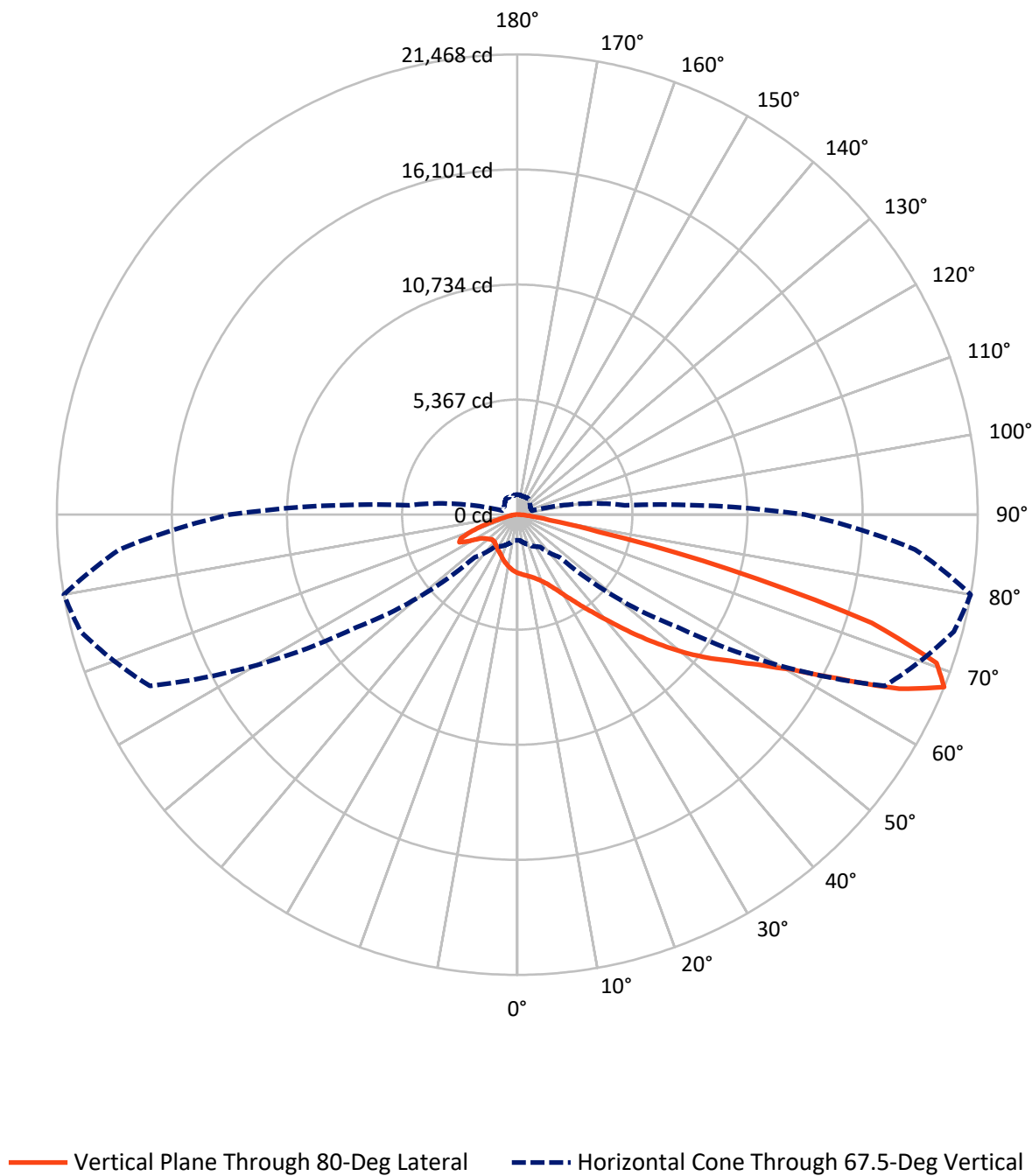


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P194721

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7060-1200

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3602.6	0.0	3602.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	15959.4	0.0	15959.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	19562.0	0.0	19562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.7	1.3
10°-20°	722.2	3.7
20°-30°	1195.4	6.1
30°-40°	1955.3	10.0
40°-50°	3157.1	16.1
50°-60°	4557.9	23.3
60°-70°	5029.9	25.7
70°-80°	2318.5	11.9
80°-90°	375.0	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°	19562.0	100.0
0°-180°	19562.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194721

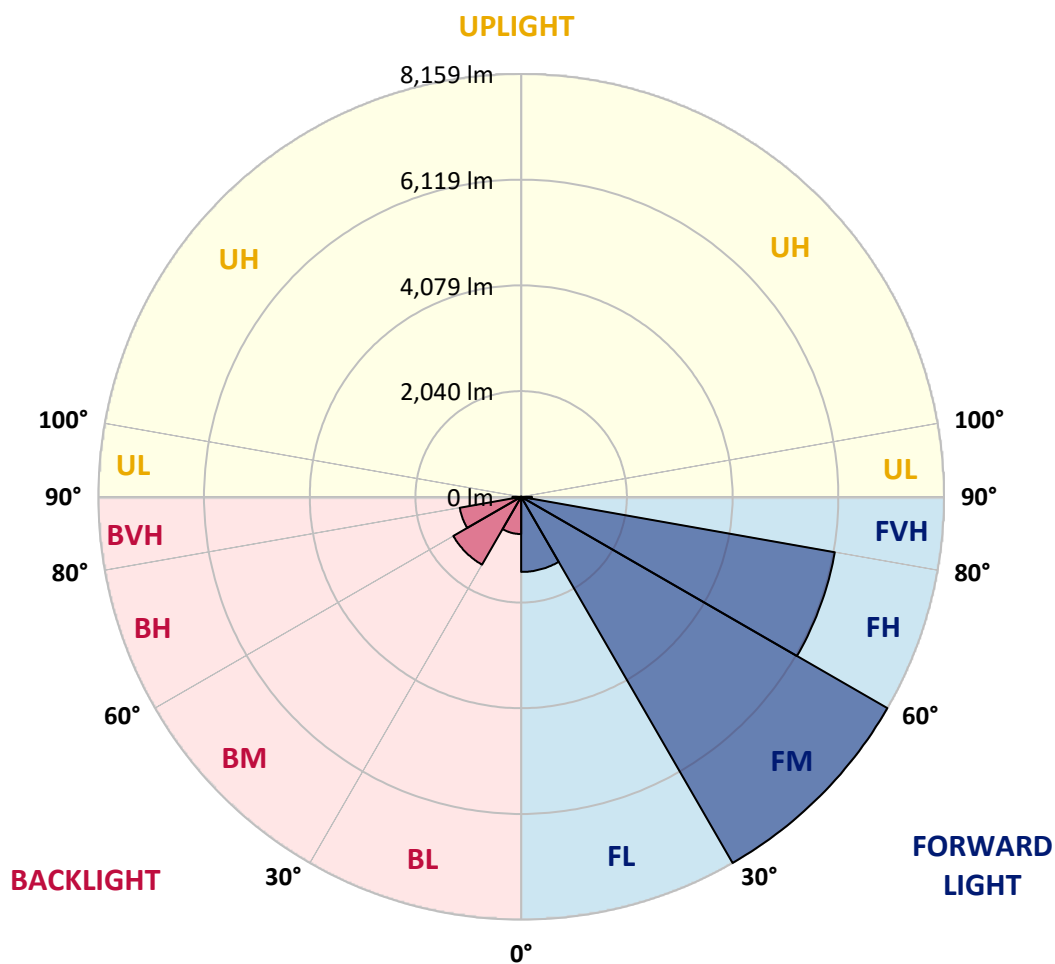
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7060-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1449.5	7.4			
FM	(30°-60°)	8158.8	41.7			
FH	(60°-80°)	6144.9	31.4			G3/7500
FVH	(80°-90°)	206.2	1.1			G2/225
BL	(0°-30°)	718.8	3.7	B2/1000		
BM	(30°-60°)	1511.5	7.7	B2/2500		
BH	(60°-80°)	1203.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	168.8	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



REPORT NUMBER: P194721

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7060-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7
2.5°	2972.9	2955.6	2958.5	2953.7	2939.2	2914.2	2887.2	2838.1	2787.1	2760.1	2738.9
5°	3221.4	3216.6	3209.8	3194.4	3157.8	3105.8	3041.3	2954.6	2861.2	2812.1	2764.9
7.5°	3407.3	3404.4	3395.7	3386.1	3350.5	3287.9	3190.6	3067.3	2931.5	2864.1	2790.9
10°	3422.7	3427.5	3434.2	3460.2	3465.1	3431.4	3332.2	3182.9	3004.7	2918.0	2824.6
12.5°	3291.7	3302.3	3328.3	3394.8	3465.1	3506.5	3455.4	3304.2	3090.4	2985.5	2867.0
15°	3118.4	3124.1	3155.9	3247.4	3373.6	3501.7	3549.8	3438.1	3201.2	3072.1	2930.6
17.5°	3044.2	3047.1	3069.2	3129.9	3247.4	3430.4	3602.8	3583.5	3337.0	3180.0	3008.6
20°	3006.6	3013.4	3045.2	3104.9	3179.0	3338.9	3610.5	3740.5	3498.8	3314.8	3106.8
22.5°	3113.5	3110.7	3122.2	3152.1	3214.7	3311.0	3604.7	3902.3	3704.9	3488.2	3234.9
25°	3363.0	3373.6	3353.3	3319.6	3339.9	3407.3	3635.5	4077.6	3963.0	3710.6	3402.5
27.5°	3718.3	3707.7	3677.9	3598.9	3557.5	3586.4	3737.6	4266.3	4283.7	4003.4	3624.0
30°	4072.7	4064.1	4035.2	3938.9	3854.1	3830.1	3936.0	4483.0	4666.0	4354.9	3895.5
32.5°	4440.6	4431.0	4404.0	4307.7	4205.6	4149.8	4218.2	4733.4	5116.7	4774.8	4215.3
35°	4894.2	4875.9	4819.1	4685.2	4585.1	4541.7	4573.5	5048.3	5636.7	5271.7	4603.4
37.5°	5320.9	5348.8	5291.0	5106.1	4976.1	4960.7	4996.3	5432.6	6197.2	5827.4	5049.3
40°	5749.4	5754.2	5702.2	5551.0	5417.2	5392.1	5481.7	5898.7	6858.9	6491.9	5591.5
42.5°	6192.4	6202.1	6114.4	5974.8	5876.5	5881.4	5983.4	6444.7	7617.7	7274.9	6215.5
45°	6717.3	6731.7	6635.4	6452.4	6362.9	6543.0	6500.6	7057.2	8449.8	8164.7	6932.0
47.5°	7266.2	7288.4	7215.2	7043.8	6932.0	7179.5	7017.8	7736.2	9345.4	9119.1	7718.9
50°	7565.7	7597.5	7668.8	7656.3	7632.2	7590.8	7594.6	8464.3	10269.0	10113.0	8527.8
52.5°	7404.9	7403.9	7664.0	7979.8	8316.9	8342.0	8297.6	9231.8	11131.9	11084.7	9289.6
55°	6669.1	6719.2	7113.1	7724.6	8645.3	9220.3	9351.2	10111.1	11979.4	12034.3	10062.9
57.5°	5444.1	5485.5	6017.1	6869.4	8202.3	9742.2	10849.7	11389.0	12927.0	13183.2	11092.4
60°	3692.3	3742.4	4305.8	5329.5	7010.1	9451.4	12276.0	13669.6	14061.5	14644.2	12537.0
62.5°	2169.8	2215.0	2674.4	3362.0	4935.6	8100.2	12902.0	16914.1	15863.4	16848.6	14740.5
65°	1493.7	1524.5	1747.9	2092.7	2836.2	5455.7	12125.8	19154.1	18636.0	19579.8	17295.4
67.5°	1201.9	1198.0	1375.2	1610.2	1825.9	2813.1	9169.2	18900.8	21074.5	21468.3	18621.6
70°	990.0	986.2	1106.5	1301.1	1459.0	1584.2	4994.4	15950.1	20577.5	20737.4	17400.4
72.5°	828.2	832.1	909.1	1053.6	1197.1	1193.2	2194.8	11220.5	16187.9	17293.5	13870.8
75°	699.2	701.1	752.1	854.2	971.7	961.1	1190.3	6078.8	9410.0	10179.5	7689.0
77.5°	595.2	597.1	629.8	686.7	770.4	766.6	868.7	2626.2	3925.4	3877.2	2630.1
80°	530.6	530.6	546.1	556.6	602.9	585.5	644.3	1261.6	1659.3	1532.2	1049.7
82.5°	416.0	418.0	512.3	508.5	474.8	452.6	452.6	743.5	879.3	812.8	614.4
85°	234.0	233.1	330.3	398.7	418.0	318.8	315.9	416.0	478.6	421.8	297.6
87.5°	100.2	102.1	153.1	177.2	236.9	198.4	195.5	214.8	243.7	210.9	137.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P194721

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7060-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7
2.5°	2718.7	2693.7	2638.8	2570.4	2508.7	2468.3	2431.7	2378.7	2381.6	2345.0	2318.1
5°	2716.8	2664.8	2537.6	2386.4	2241.0	2136.0	2057.1	1985.8	1968.5	1934.8	1914.5
7.5°	2718.7	2633.9	2420.1	2178.4	1998.3	1865.4	1798.0	1760.5	1751.8	1740.2	1741.2
10°	2725.4	2606.0	2291.1	1983.9	1795.1	1707.5	1691.1	1702.7	1716.2	1720.0	1721.0
12.5°	2740.8	2581.0	2149.5	1810.5	1668.0	1641.0	1669.0	1708.5	1734.5	1747.0	1746.0
15°	2775.5	2561.7	2013.7	1674.7	1597.7	1612.1	1664.2	1720.0	1757.6	1774.9	1775.9
17.5°	2813.1	2533.8	1874.1	1570.7	1545.7	1582.3	1646.8	1712.3	1758.5	1777.8	1781.6
20°	2862.2	2499.1	1727.7	1492.7	1496.6	1538.0	1598.7	1664.2	1715.2	1731.6	1739.3
22.5°	2926.7	2461.6	1599.6	1429.2	1440.7	1472.5	1519.7	1576.5	1620.8	1628.5	1635.3
25°	3013.4	2421.1	1497.5	1371.4	1376.2	1394.5	1426.3	1460.0	1490.8	1482.1	1488.9
27.5°	3129.9	2386.4	1421.5	1318.4	1309.7	1313.6	1330.0	1340.6	1356.9	1332.9	1335.8
30°	3266.7	2348.9	1362.7	1272.2	1248.1	1241.4	1245.2	1251.0	1263.5	1230.8	1226.0
32.5°	3425.6	2303.6	1307.8	1231.7	1198.0	1184.6	1186.5	1201.9	1250.0	1229.8	1219.2
35°	3610.5	2252.6	1250.0	1187.4	1164.3	1145.1	1143.1	1191.3	1334.8	1322.3	1312.6
37.5°	3827.2	2201.5	1192.3	1137.4	1139.3	1118.1	1111.4	1166.3	1351.2	1302.0	1295.3
40°	4102.6	2174.6	1143.1	1084.4	1108.5	1105.6	1092.1	1120.0	1243.3	1153.7	1142.2
42.5°	4443.5	2178.4	1106.5	1027.6	1071.9	1102.7	1081.5	1082.5	1126.8	1059.4	1048.8
45°	4864.4	2223.7	1080.5	982.3	1030.5	1099.8	1077.7	1062.2	1066.1	1030.5	1024.7
47.5°	5355.5	2317.1	1062.2	944.8	991.0	1089.2	1076.7	1056.5	1047.8	1028.5	1023.7
50°	5901.6	2452.9	1048.8	909.1	955.3	1071.9	1077.7	1050.7	1041.1	1033.4	1030.5
52.5°	6438.0	2607.9	1028.5	878.3	927.4	1050.7	1080.5	1044.9	1034.3	1028.5	1025.6
55°	7036.1	2801.5	997.7	852.3	904.3	1023.7	1080.5	1036.2	1024.7	1025.6	1024.7
57.5°	7844.1	3114.5	961.1	830.2	876.4	991.0	1062.2	1026.6	1012.2	1013.1	1014.1
60°	9106.6	3666.3	916.8	808.0	841.7	952.5	1037.2	1005.4	991.0	994.8	995.8
62.5°	10963.4	4476.3	859.0	775.3	805.1	911.0	1002.5	978.5	964.0	973.6	973.6
65°	12893.3	5190.8	787.8	733.8	766.6	865.8	959.2	944.8	930.3	952.5	951.5
67.5°	13412.4	5031.0	716.5	688.6	728.1	815.7	907.2	899.5	891.8	930.3	928.4
70°	11914.9	4039.0	651.0	642.4	685.7	761.8	851.3	851.3	846.5	875.4	868.7
72.5°	9077.7	2864.1	588.4	593.2	637.5	703.0	790.7	797.4	789.7	804.1	798.4
75°	4859.6	1639.1	525.8	539.3	577.8	643.3	723.3	730.0	725.2	724.2	727.1
77.5°	1615.0	801.3	460.3	481.5	515.2	581.7	652.9	663.5	652.0	650.1	649.1
80°	719.4	503.7	388.1	416.0	445.9	511.4	578.8	587.5	574.9	592.3	570.1
82.5°	462.3	331.3	311.1	341.9	370.8	441.1	504.6	506.6	495.0	574.9	490.2
85°	224.4	205.1	234.0	261.9	287.0	346.7	418.0	418.9	390.0	355.4	342.8
87.5°	111.7	119.4	156.0	181.1	193.6	237.9	304.3	298.5	286.0	260.0	239.8
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)