

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: P191510

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191510  
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-02-LED-E1-T4FT-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 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: 8257.3 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

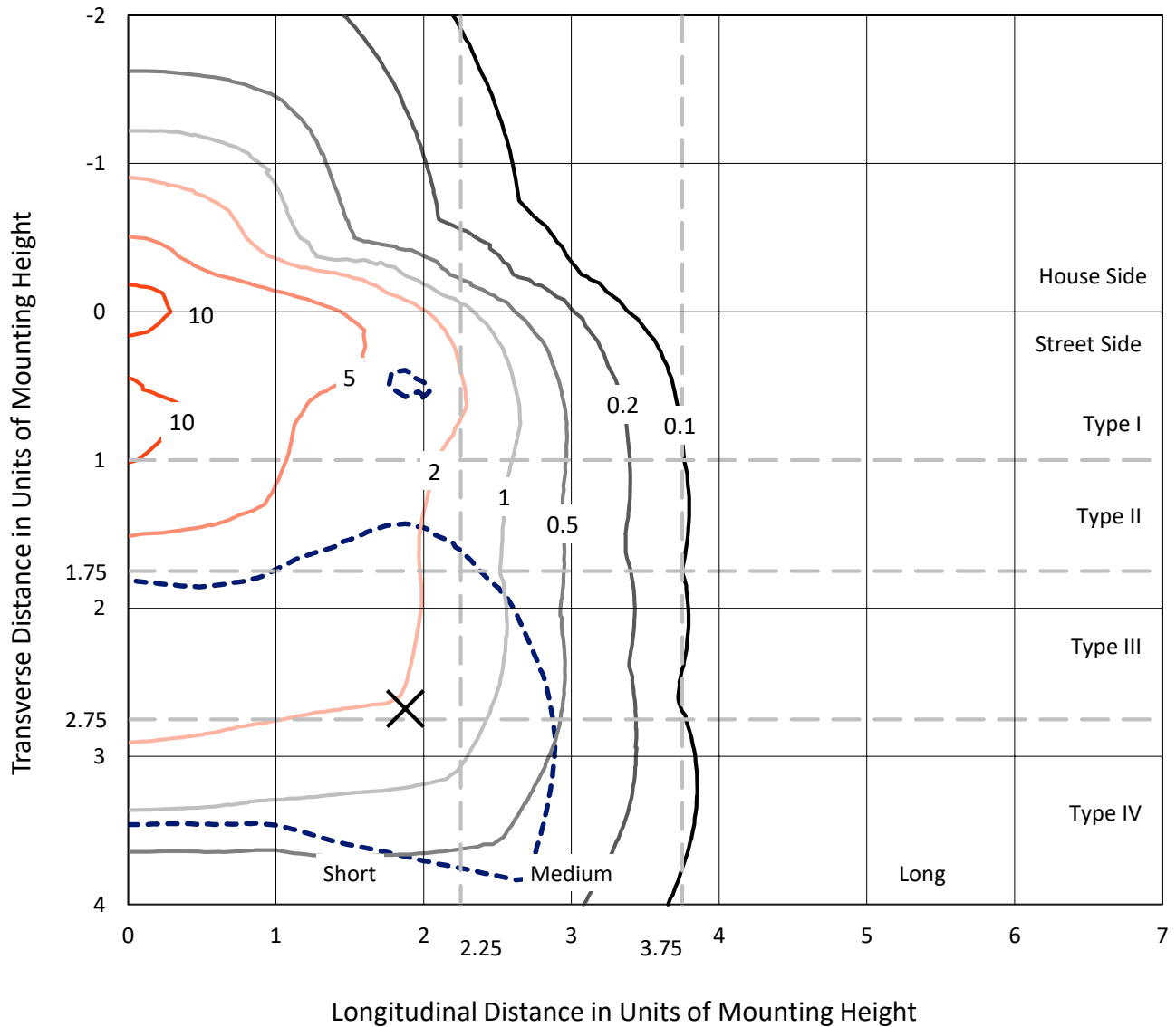
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P191510  
 CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-600

### Iso-Footcandle Lines of Horizontal Illumination

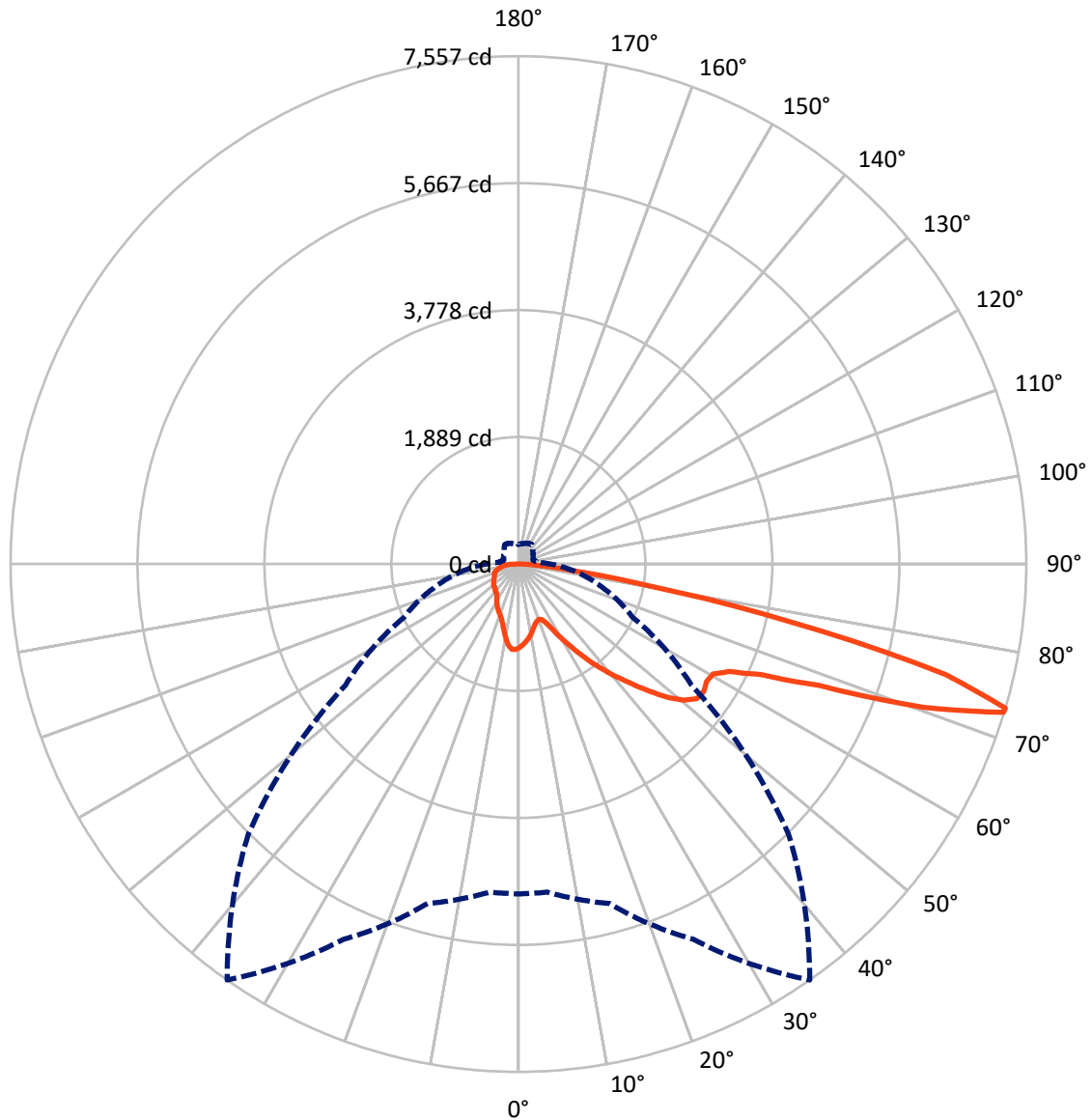
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191510  
CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191510

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1574.9	0.0	1574.9
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	6682.4	0.0	6682.4
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	8257.3	0.0	8257.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	1.4
10°-20°	281.6	3.4
20°-30°	455.2	5.5
30°-40°	763.4	9.2
40°-50°	1176.7	14.3
50°-60°	1578.7	19.1
60°-70°	2103.1	25.5
70°-80°	1604.0	19.4
80°-90°	181.8	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°	8257.3	100.0
0°-180°	8257.3	100.0



REPORT NUMBER: P191510

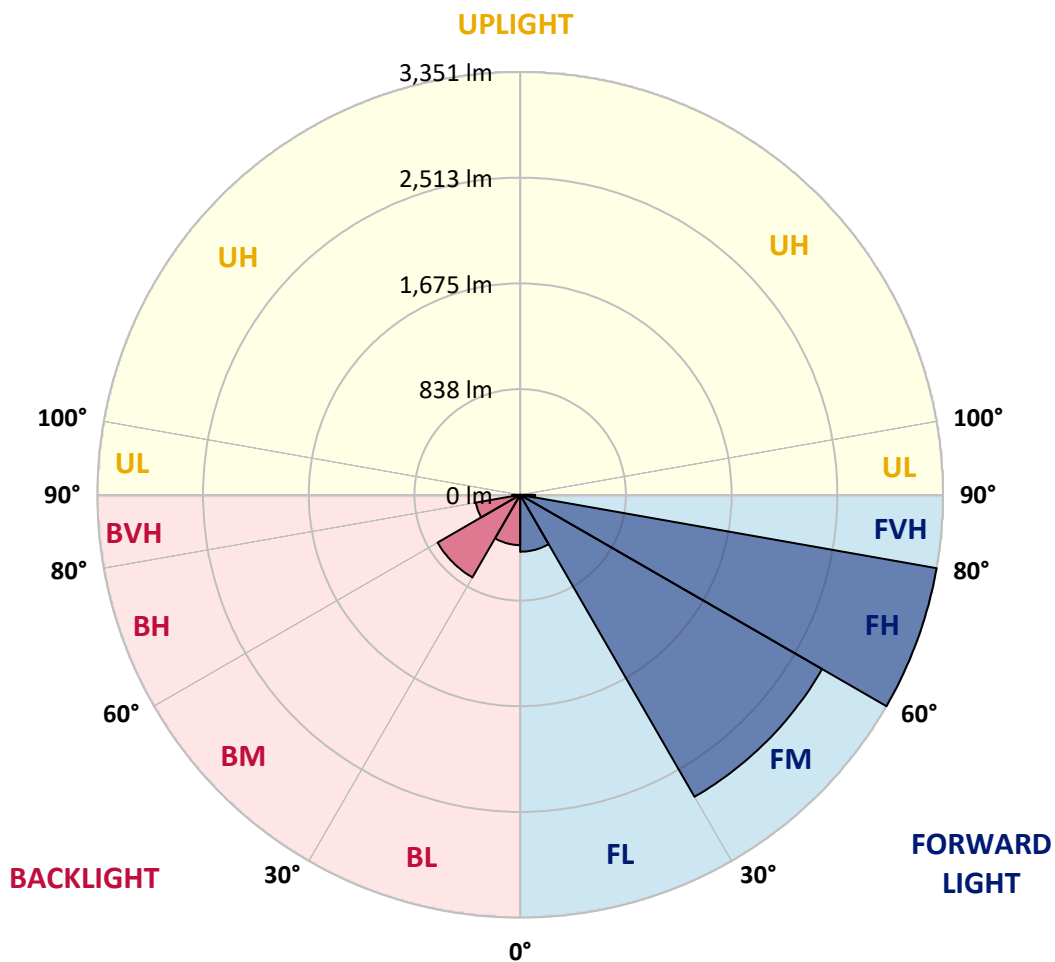
CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.1	5.5			
FM	(30°-60°)	2762.9	33.5			
FH	(60°-80°)	3350.8	40.6			G2/5000
FVH	(80°-90°)	117.5	1.4			G2/225
BL	(0°-30°)	398.5	4.8	B1/500		
BM	(30°-60°)	755.8	9.2	B1/1000		
BH	(60°-80°)	356.3	4.3	B1/500		G1/500
BVH	(80°-90°)	64.3	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P191510

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3
2.5°	1197.1	1199.5	1196.8	1200.3	1206.3	1212.6	1216.9	1223.2	1230.4	1240.3	1242.7
5°	1140.8	1144.4	1144.4	1150.7	1162.2	1172.5	1182.0	1192.4	1207.4	1224.5	1231.2
7.5°	1078.9	1081.0	1084.5	1094.0	1110.6	1125.3	1138.9	1155.4	1176.1	1198.7	1210.6
10°	1004.4	1007.2	1012.7	1026.2	1048.8	1069.0	1088.4	1111.4	1137.6	1165.8	1180.9
12.5°	951.7	950.8	953.3	963.1	983.0	1007.6	1035.7	1065.1	1097.2	1130.1	1148.4
15°	933.9	929.5	920.3	918.0	928.6	953.3	985.7	1021.8	1060.3	1100.0	1122.6
17.5°	944.9	937.4	912.4	894.2	892.6	911.2	945.7	986.1	1030.5	1078.9	1107.1
20°	1014.7	996.9	935.4	892.9	878.3	887.4	917.6	960.3	1012.7	1077.0	1113.1
22.5°	1181.6	1155.4	1025.0	946.1	896.5	885.5	908.1	953.6	1014.7	1101.5	1147.5
25°	1424.7	1387.4	1178.8	1078.5	976.2	917.2	922.3	969.1	1042.9	1158.6	1214.1
27.5°	1616.7	1592.4	1379.9	1265.3	1121.4	1002.8	968.7	1008.0	1100.4	1252.2	1309.0
30°	1730.8	1716.2	1594.8	1477.0	1306.5	1139.3	1057.5	1081.0	1190.4	1381.9	1428.7
32.5°	1863.3	1854.5	1795.1	1686.8	1506.4	1318.5	1198.3	1190.0	1310.9	1537.7	1559.2
35°	2000.5	1997.7	1962.8	1885.1	1720.9	1554.8	1385.1	1328.7	1442.2	1699.5	1686.0
37.5°	2128.1	2123.3	2103.2	2058.0	1945.3	1808.6	1575.3	1471.1	1583.7	1854.1	1794.3
40°	2363.3	2326.0	2256.6	2222.6	2172.1	2022.3	1726.4	1604.0	1730.4	2001.6	1887.9
42.5°	2650.0	2589.3	2460.0	2413.2	2406.1	2190.8	1829.5	1732.8	1878.3	2148.0	1979.8
45°	2875.6	2818.5	2707.0	2648.0	2674.2	2343.5	1933.1	1870.4	2030.6	2301.4	2074.6
47.5°	3116.3	3026.7	2879.2	2897.0	2954.1	2487.8	2038.5	2018.3	2197.5	2473.1	2192.4
50°	3125.0	3056.4	2991.8	3098.4	3187.3	2620.6	2170.6	2173.4	2401.8	2689.2	2349.0
52.5°	2943.8	2929.1	3031.8	3199.6	3327.7	2725.8	2320.9	2333.6	2663.0	2937.4	2521.1
55°	2880.3	2863.8	2982.3	3164.3	3346.7	2812.5	2483.8	2506.8	2979.1	3199.2	2688.8
57.5°	3035.0	2998.2	3006.0	3147.6	3300.2	2907.7	2661.5	2707.9	3322.4	3427.9	2796.6
60°	3467.2	3388.3	3238.5	3234.9	3325.3	3050.4	2866.9	2923.6	3679.3	3537.4	2754.7
62.5°	4073.5	3994.6	3713.8	3531.0	3517.6	3286.0	3119.1	3134.1	3885.6	3389.1	2498.1
65°	4729.7	4659.1	4345.5	4087.4	3962.9	3676.2	3412.1	3228.1	3818.2	2981.1	2049.3
67.5°	5526.4	5450.6	5181.0	4942.7	4822.9	4305.9	3617.9	3138.1	3390.3	2309.3	1473.0
70°	6083.5	6006.2	5899.9	6093.0	6386.1	5214.3	3644.5	2772.1	2532.2	1534.9	886.6
72.5°	5356.7	5320.6	5514.4	6327.8	7548.3	5765.5	3294.3	2018.3	1470.7	814.9	513.1
73°	4907.8	4899.8	5230.6	6163.2	7556.5	5680.7	3140.9	1876.0	1261.3	720.9	469.1
75°	2216.2	2280.1	3004.8	4707.5	6565.3	4681.0	2210.6	1076.1	712.6	498.1	354.1
77.5°	532.5	554.7	940.2	2235.6	4146.0	2789.6	1001.6	532.1	455.6	351.7	258.5
80°	226.8	234.4	362.0	825.9	1952.1	1123.4	461.6	356.5	315.3	245.4	181.2
82.5°	126.1	134.0	205.4	374.7	787.9	383.0	281.5	248.3	207.4	147.9	117.7
85°	71.4	75.7	120.2	209.4	333.9	153.9	168.5	165.0	117.0	76.1	57.9
87.5°	33.7	36.5	57.9	97.2	130.8	60.3	85.6	94.4	73.3	46.4	30.2
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: P191510  
 CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-600

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3
2.5°	1245.4	1252.6	1261.0	1265.3	1269.3	1274.0	1278.8	1278.8	1279.6	1280.0
5°	1236.7	1251.5	1264.5	1270.1	1271.2	1271.2	1270.1	1263.8	1258.1	1260.6
7.5°	1218.5	1239.9	1251.1	1249.0	1234.0	1216.5	1201.9	1184.1	1174.9	1173.3
10°	1192.4	1216.9	1218.9	1199.1	1161.9	1124.5	1093.6	1063.5	1049.2	1045.7
12.5°	1163.4	1186.0	1173.3	1132.5	1072.6	1018.2	979.1	948.5	935.0	931.4
15°	1140.0	1155.4	1123.4	1059.2	983.8	926.3	893.8	871.1	861.6	858.9
17.5°	1127.7	1130.9	1072.2	985.4	905.3	857.3	837.1	826.3	822.8	820.8
20°	1133.6	1111.4	1023.5	916.8	841.1	807.3	802.6	799.7	799.0	797.8
22.5°	1163.4	1105.5	978.7	851.7	784.7	770.1	774.1	773.7	772.8	772.0
25°	1216.5	1110.6	935.0	789.9	737.5	734.4	741.5	741.5	738.4	738.4
27.5°	1286.8	1121.4	886.2	731.2	694.7	695.1	700.6	699.1	695.5	693.2
30°	1372.4	1128.1	829.1	678.4	654.7	653.1	654.7	647.9	637.2	636.4
32.5°	1460.0	1119.8	762.9	631.7	612.2	608.7	607.4	597.9	585.6	582.1
35°	1539.3	1089.2	695.5	594.4	571.8	563.9	569.4	566.2	555.2	552.4
37.5°	1597.2	1032.6	634.8	561.5	542.9	540.8	544.4	545.6	532.5	529.8
40°	1636.1	955.6	582.9	533.7	537.3	529.8	517.8	509.5	505.5	504.4
42.5°	1667.4	875.5	539.3	520.7	538.5	516.7	490.9	477.4	484.6	487.7
45°	1703.5	797.4	502.8	504.4	532.5	501.6	472.3	459.2	462.0	462.8
47.5°	1753.0	702.3	463.5	478.2	512.7	491.3	460.7	442.1	429.0	423.1
50°	1821.7	589.6	422.7	448.9	493.3	483.8	442.9	423.1	399.0	393.3
52.5°	1869.2	484.6	389.0	424.3	475.9	468.7	428.6	402.8	377.5	372.8
55°	1843.5	402.4	359.7	396.9	452.9	450.1	416.8	382.3	362.4	358.4
57.5°	1714.6	350.6	337.1	371.1	424.6	434.2	400.9	364.8	350.6	347.7
60°	1468.8	318.0	322.7	353.7	401.7	418.3	385.0	355.3	345.8	343.8
62.5°	1139.6	296.2	312.1	341.1	383.8	407.2	376.3	354.1	350.6	348.1
65°	816.4	278.8	300.5	328.4	367.5	396.9	373.2	352.5	353.3	351.3
67.5°	554.7	263.3	286.7	314.0	351.7	387.8	368.8	347.0	356.9	354.5
70°	388.2	248.3	270.5	295.8	331.8	375.1	360.8	338.6	337.9	328.4
72.5°	302.9	228.4	248.3	270.5	306.5	357.3	344.9	320.0	306.9	297.0
73°	289.1	223.6	242.6	264.8	301.0	352.9	340.6	314.9	300.1	291.0
75°	239.1	203.1	220.4	240.3	277.2	332.3	319.2	291.4	272.8	267.3
77.5°	187.9	173.7	190.4	208.2	244.3	302.2	287.4	261.0	250.6	245.8
80°	139.2	143.9	158.7	174.5	211.8	270.1	257.0	230.4	276.4	264.8
82.5°	97.9	109.0	122.5	136.8	177.7	238.8	222.8	195.5	202.2	168.2
85°	57.9	71.4	84.1	96.4	128.1	197.8	184.0	155.8	127.7	121.7
87.5°	33.7	39.7	43.3	56.0	88.1	149.0	129.7	115.4	66.2	44.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)