

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: P300425

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300425  
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: GLNA-AF-02-LED-E1-T4FT-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8043.6 lumens  
Efficiency: N/A  
Efficacy: 121.9 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

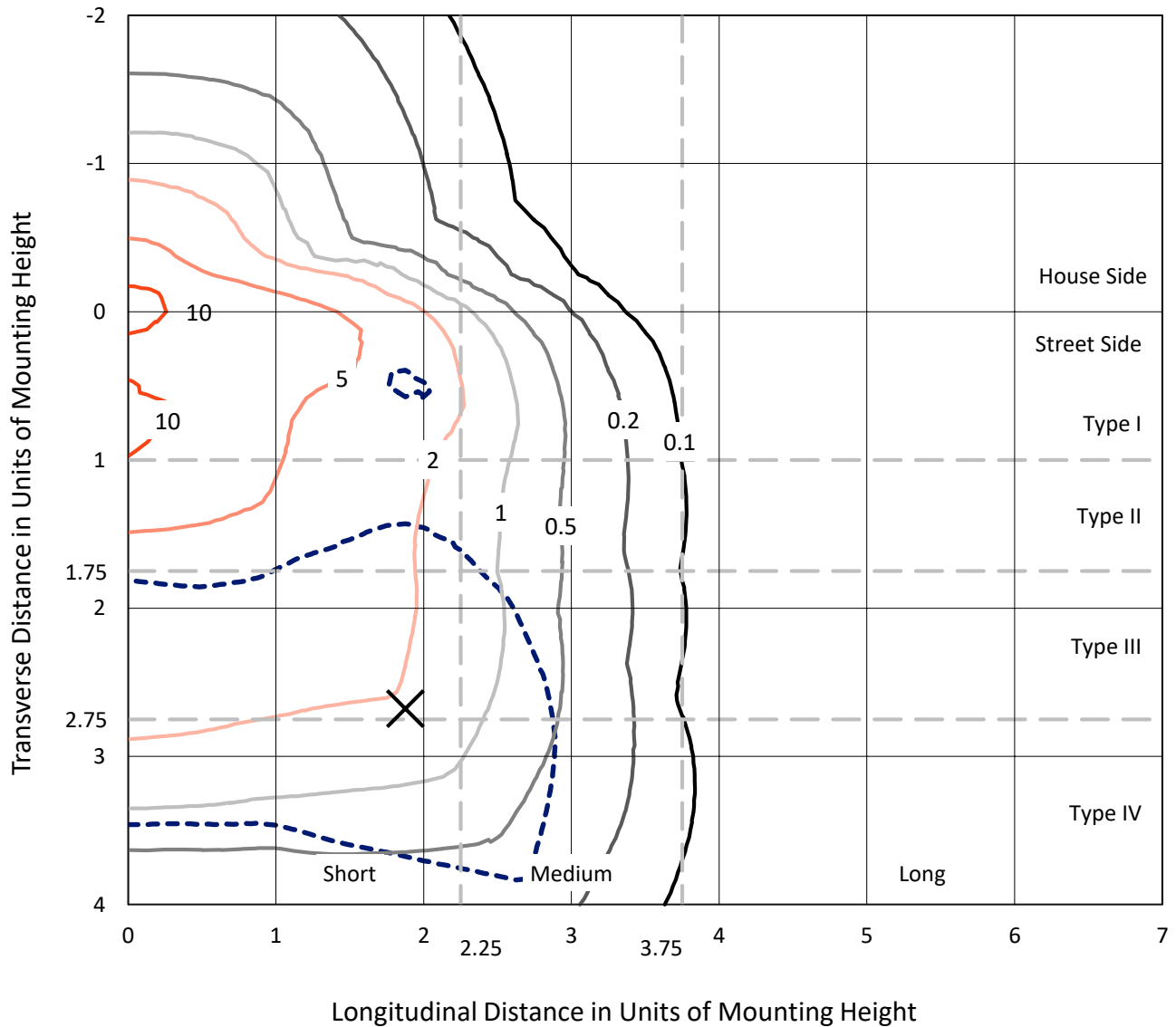
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

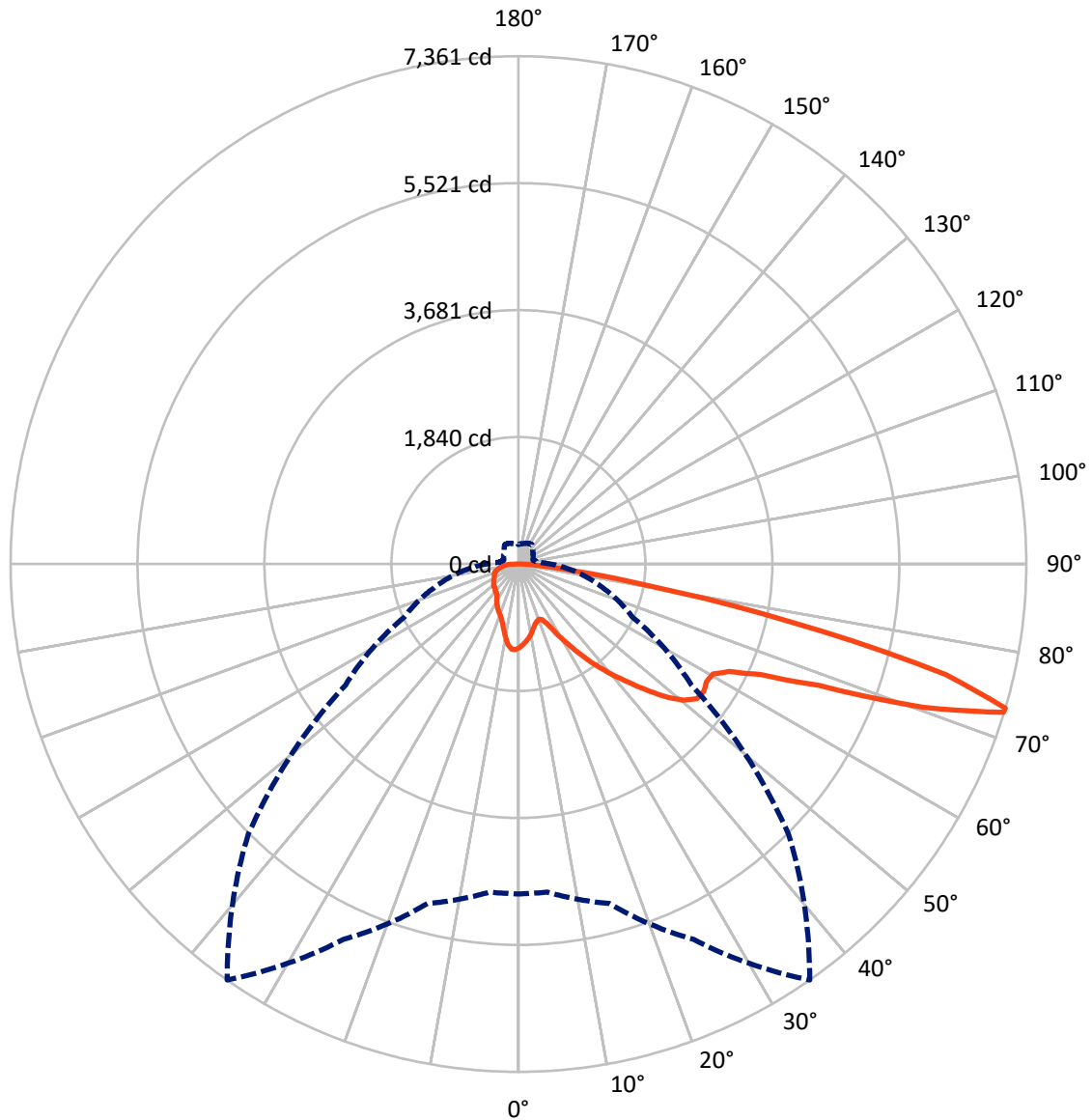
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 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
<b>House Side</b>	Lumens	1534.1	0.0	1534.1
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	6509.5	0.0	6509.5
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	8043.6	0.0	8043.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.9	1.4
10°-20°	274.3	3.4
20°-30°	443.5	5.5
30°-40°	743.6	9.2
40°-50°	1146.2	14.3
50°-60°	1537.8	19.1
60°-70°	2048.7	25.5
70°-80°	1562.5	19.4
80°-90°	177.1	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°	8043.6	100.0
0°-180°	8043.6	100.0



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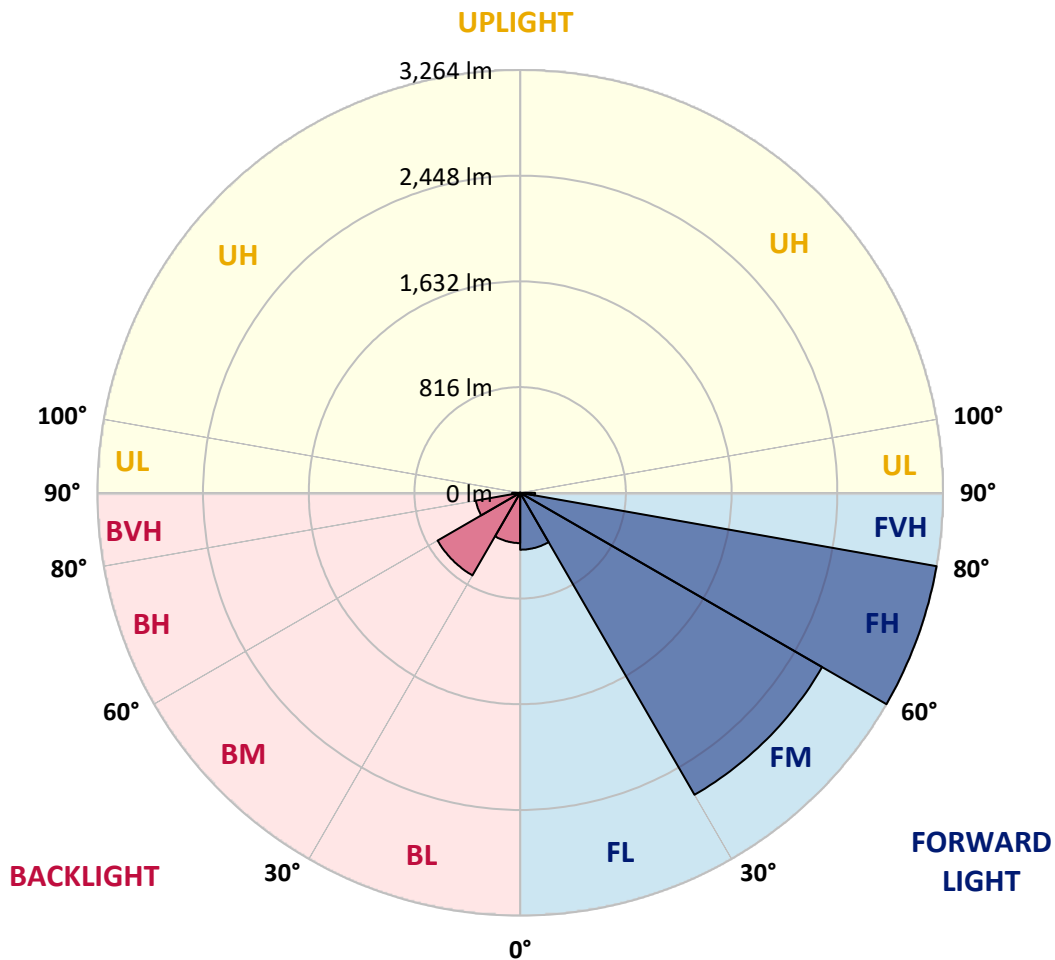
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.5	5.5			
FM	(30°-60°)	2691.4	33.5			
FH	(60°-80°)	3264.1	40.6			G2/5000
FVH	(80°-90°)	114.5	1.4			G2/225
BL	(0°-30°)	388.2	4.8	B1/500		
BM	(30°-60°)	736.2	9.2	B1/1000		
BH	(60°-80°)	347.1	4.3	B1/500		G1/500
BVH	(80°-90°)	62.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0
2.5°	1166.1	1168.4	1165.7	1169.2	1175.0	1181.2	1185.4	1191.6	1198.6	1208.2	1210.6
5°	1111.3	1114.8	1114.8	1120.9	1132.1	1142.2	1151.5	1161.5	1176.2	1192.8	1199.4
7.5°	1051.0	1053.0	1056.4	1065.7	1081.9	1096.2	1109.4	1125.6	1145.7	1167.7	1179.3
10°	978.4	981.1	986.5	999.7	1021.7	1041.4	1060.3	1082.7	1108.2	1135.6	1150.3
12.5°	927.0	926.3	928.6	938.2	957.5	981.5	1008.9	1037.5	1068.8	1100.9	1118.6
15°	909.7	905.4	896.5	894.2	904.6	928.6	960.3	995.4	1032.9	1071.5	1093.5
17.5°	920.5	913.1	888.8	871.0	869.5	887.6	921.2	960.6	1003.9	1051.0	1078.4
20°	988.5	971.1	911.2	869.9	855.6	864.5	893.8	935.5	986.5	1049.1	1084.2
22.5°	1151.1	1125.6	998.5	921.6	873.3	862.5	884.5	929.0	988.5	1073.0	1117.8
25°	1387.8	1351.5	1148.4	1050.6	951.0	893.4	898.5	944.0	1015.9	1128.7	1182.7
27.5°	1574.8	1551.2	1344.2	1232.6	1092.4	976.9	943.6	981.9	1071.9	1219.8	1275.1
30°	1686.0	1671.8	1553.6	1438.8	1272.7	1109.7	1030.2	1053.0	1159.6	1346.1	1391.7
32.5°	1815.1	1806.6	1748.6	1643.2	1467.4	1284.3	1167.3	1159.2	1277.0	1497.9	1518.8
35°	1948.7	1946.0	1912.0	1836.3	1676.4	1514.5	1349.2	1294.4	1404.8	1655.5	1642.4
37.5°	2073.1	2068.4	2048.7	2004.7	1895.0	1761.8	1534.6	1433.0	1542.7	1806.2	1747.8
40°	2302.1	2265.8	2198.2	2165.0	2116.0	1969.9	1681.8	1562.4	1685.7	1949.9	1839.0
42.5°	2581.4	2522.3	2396.4	2350.8	2343.9	2134.1	1782.2	1688.0	1829.7	2092.4	1928.6
45°	2801.2	2745.6	2637.0	2579.5	2605.0	2282.8	1883.0	1822.0	1978.1	2241.9	2020.9
47.5°	3035.7	2948.4	2804.7	2822.0	2877.7	2423.4	1985.8	1966.1	2140.7	2409.1	2135.7
50°	3044.1	2977.3	2914.4	3018.3	3104.8	2552.8	2114.4	2117.1	2339.6	2619.6	2288.2
52.5°	2867.6	2853.3	2953.4	3116.8	3241.5	2655.2	2260.8	2273.2	2594.2	2861.4	2455.9
55°	2805.8	2789.6	2905.1	3082.4	3260.1	2739.8	2419.6	2442.0	2902.0	3116.4	2619.3
57.5°	2956.5	2920.5	2928.3	3066.2	3214.9	2832.5	2592.6	2637.8	3236.5	3339.3	2724.3
60°	3377.5	3300.6	3154.6	3151.1	3239.2	2971.5	2792.7	2847.9	3584.1	3445.9	2683.4
62.5°	3968.1	3891.2	3617.8	3439.7	3426.5	3201.0	3038.4	3053.0	3785.0	3301.4	2433.5
65°	4607.4	4538.6	4233.1	3981.6	3860.3	3581.1	3323.8	3144.6	3719.3	2903.9	1996.2
67.5°	5383.4	5309.6	5046.9	4814.8	4698.1	4194.4	3524.3	3056.9	3302.6	2249.6	1435.0
70°	5926.1	5850.7	5747.2	5935.3	6220.8	5079.4	3550.2	2700.4	2466.7	1495.2	863.7
72.5°	5218.0	5182.9	5371.8	6164.0	7352.9	5616.3	3209.1	1966.1	1432.7	793.8	499.8
73°	4780.8	4773.1	5095.2	6003.7	7361.0	5533.6	3059.6	1827.4	1228.7	702.2	457.0
75°	2158.8	2221.0	2927.1	4585.7	6395.4	4559.8	2153.4	1048.3	694.1	485.1	344.9
77.5°	518.8	540.4	915.8	2177.8	4038.8	2717.4	975.7	518.4	443.8	342.6	251.8
80°	220.9	228.3	352.7	804.6	1901.6	1094.3	449.6	347.3	307.1	239.1	176.5
82.5°	122.8	130.6	200.1	365.0	767.5	373.1	274.2	241.8	202.0	144.1	114.7
85°	69.5	73.8	117.0	203.9	325.2	149.9	164.2	160.7	113.9	74.2	56.4
87.5°	32.8	35.5	56.4	94.6	127.5	58.7	83.4	91.9	71.5	45.2	29.4
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°	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0	1214.0
2.5°	1213.3	1220.2	1228.3	1232.6	1236.4	1241.1	1245.7	1245.7	1246.5	1246.9
5°	1204.8	1219.0	1231.8	1237.2	1238.4	1238.4	1237.2	1231.0	1225.6	1227.9
7.5°	1187.0	1207.8	1218.7	1216.7	1202.1	1185.1	1170.8	1153.4	1144.5	1143.0
10°	1161.5	1185.4	1187.4	1168.1	1131.8	1095.4	1065.3	1036.0	1022.1	1018.6
12.5°	1133.3	1155.3	1143.0	1103.2	1044.8	991.9	953.7	923.9	910.8	907.3
15°	1110.5	1125.6	1094.3	1031.7	958.3	902.3	870.6	848.6	839.4	836.6
17.5°	1098.5	1101.6	1044.5	959.9	881.8	835.1	815.4	805.0	801.5	799.6
20°	1104.3	1082.7	996.9	893.0	819.3	786.4	781.8	779.1	778.3	777.2
22.5°	1133.3	1076.9	953.3	829.7	764.4	750.1	754.0	753.6	752.8	752.1
25°	1185.1	1081.9	910.8	769.4	718.5	715.4	722.3	722.3	719.2	719.2
27.5°	1253.4	1092.4	863.3	712.3	676.7	677.1	682.5	681.0	677.5	675.2
30°	1336.9	1098.9	807.7	660.9	637.7	636.2	637.7	631.2	620.7	620.0
32.5°	1422.2	1090.8	743.2	615.3	596.4	592.9	591.8	582.5	570.5	567.0
35°	1499.5	1061.1	677.5	579.0	557.0	549.3	554.7	551.6	540.8	538.1
37.5°	1555.9	1005.8	618.4	547.0	528.8	526.9	530.3	531.5	518.8	516.0
40°	1593.7	930.9	567.8	519.9	523.4	516.0	504.5	496.3	492.5	491.3
42.5°	1624.2	852.9	525.3	507.2	524.5	503.3	478.2	465.1	472.0	475.1
45°	1659.4	776.8	489.8	491.3	518.8	488.6	460.0	447.3	450.0	450.8
47.5°	1707.7	684.1	451.5	465.8	499.4	478.6	448.8	430.7	417.9	412.1
50°	1774.5	574.4	411.8	437.3	480.5	471.2	431.5	412.1	388.6	383.2
52.5°	1820.8	472.0	378.9	413.3	463.5	456.6	417.6	392.4	367.7	363.1
55°	1795.7	392.1	350.3	386.7	441.1	438.4	406.0	372.4	353.0	349.2
57.5°	1670.2	341.5	328.3	361.5	413.7	423.0	390.5	355.4	341.5	338.8
60°	1430.7	309.8	314.4	344.5	391.3	407.5	375.1	346.1	336.8	334.9
62.5°	1110.1	288.5	304.0	332.2	373.9	396.7	366.6	344.9	341.5	339.1
65°	795.3	271.5	292.8	319.8	358.1	386.7	363.5	343.4	344.2	342.2
67.5°	540.4	256.5	279.3	305.9	342.6	377.8	359.2	338.0	347.6	345.3
70°	378.2	241.8	263.4	288.2	323.3	365.4	351.5	329.9	329.1	319.8
72.5°	295.1	222.5	241.8	263.4	298.6	348.0	336.0	311.7	299.0	289.3
73°	281.6	217.9	236.4	258.0	293.2	343.8	331.8	306.7	292.4	283.5
75°	232.9	197.8	214.8	234.1	270.0	323.7	310.9	283.9	265.7	260.3
77.5°	183.1	169.2	185.4	202.8	237.9	294.3	280.0	254.2	244.1	239.5
80°	135.6	140.2	154.5	170.0	206.3	263.0	250.3	224.4	269.2	258.0
82.5°	95.4	106.2	119.4	133.3	173.0	232.5	217.1	190.4	197.0	163.8
85°	56.4	69.5	81.9	93.9	124.8	192.7	179.2	151.8	124.4	118.6
87.5°	32.8	38.6	42.1	54.5	85.8	145.2	126.3	112.4	64.5	43.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)