

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: P300423

Luminaire Tested: **GLNA-AF-02-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300423  
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-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K 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: 7780.4 lumens  
Efficiency: N/A  
Efficacy: 117.9 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

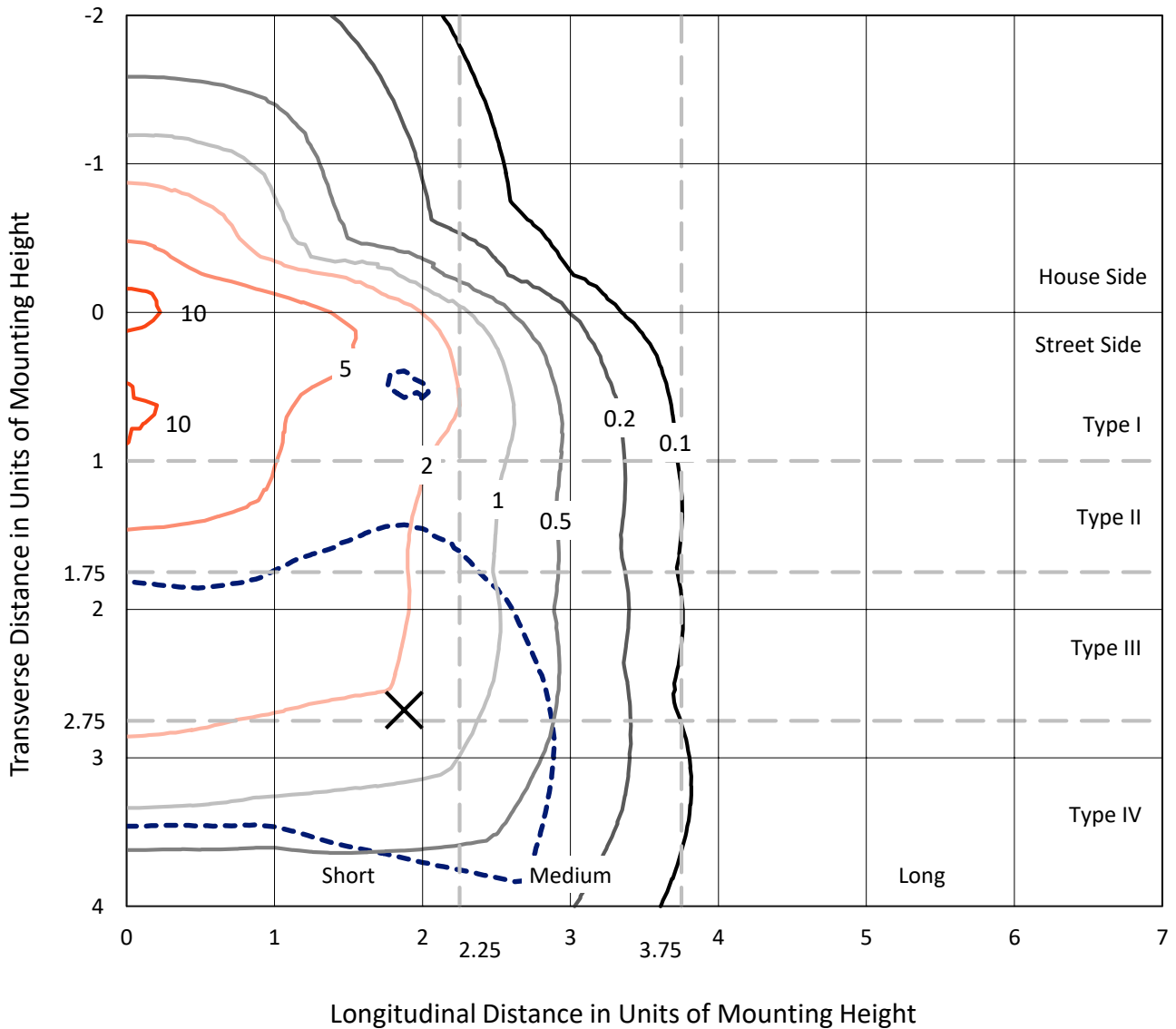


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### Iso-Footcandle Lines of Horizontal Illumination

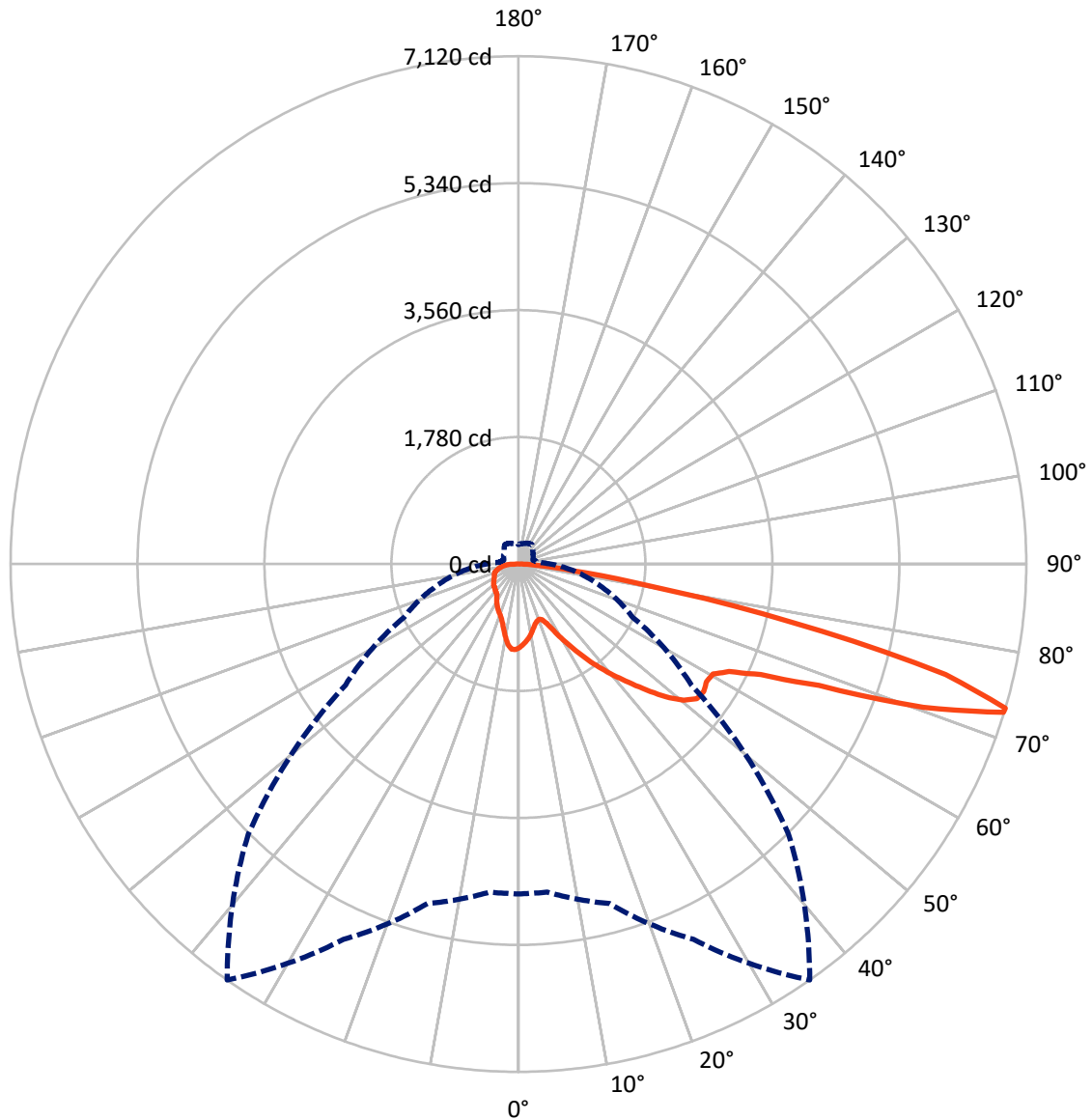
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 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	1483.9	0.0	1483.9
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	6296.5	0.0	6296.5
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	7780.4	0.0	7780.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	1.4
10°-20°	265.3	3.4
20°-30°	428.9	5.5
30°-40°	719.3	9.2
40°-50°	1108.7	14.3
50°-60°	1487.5	19.1
60°-70°	1981.6	25.5
70°-80°	1511.4	19.4
80°-90°	171.3	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°	7780.4	100.0
0°-180°	7780.4	100.0

**Coefficient of Utilization**



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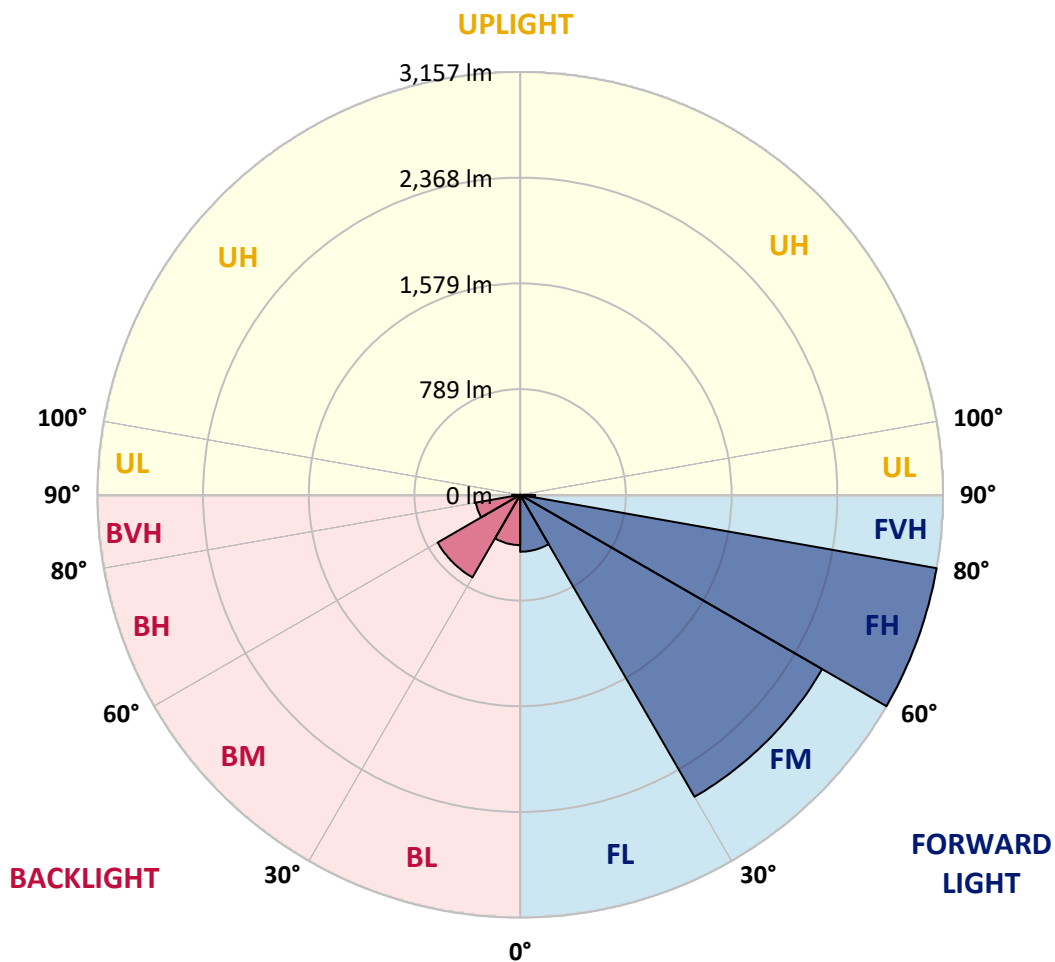
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.1	5.5			
FM (30°-60°)	2603.4	33.5			
FH (60°-80°)	3157.3	40.6			G2/5000
FVH (80°-90°)	110.7	1.4			G2/225
BL (0°-30°)	375.5	4.8	B1/500		
BM (30°-60°)	712.1	9.2	B1/1000		
BH (60°-80°)	335.7	4.3	B1/500		G1/500
BVH (80°-90°)	60.6	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°	1174.3	1174.3	1174.3	1174.3	1174.3	1174.3	1174.3	1174.3	1174.3	1174.3	1174.3
2.5°	1128.0	1130.2	1127.6	1131.0	1136.6	1142.5	1146.7	1152.6	1159.4	1168.7	1170.9
5°	1074.9	1078.3	1078.3	1084.3	1095.1	1104.8	1113.8	1123.5	1137.7	1153.8	1160.1
7.5°	1016.6	1018.5	1021.9	1030.8	1046.5	1060.3	1073.1	1088.7	1108.2	1129.5	1140.7
10°	946.4	949.0	954.2	966.9	988.2	1007.3	1025.6	1047.3	1071.9	1098.5	1112.7
12.5°	896.7	896.0	898.2	907.5	926.2	949.4	975.9	1003.6	1033.8	1064.8	1082.0
15°	879.9	875.8	867.2	864.9	875.0	898.2	928.8	962.8	999.1	1036.4	1057.7
17.5°	890.3	883.3	859.7	842.5	841.0	858.6	891.1	929.2	971.1	1016.6	1043.2
20°	956.1	939.3	881.4	841.4	827.6	836.2	864.6	904.9	954.2	1014.8	1048.8
22.5°	1113.4	1088.7	965.8	891.5	844.8	834.3	855.6	898.6	956.1	1037.9	1081.3
25°	1342.4	1307.3	1110.8	1016.3	919.9	864.2	869.1	913.1	982.6	1091.7	1144.0
27.5°	1523.3	1500.5	1300.2	1192.2	1056.6	944.9	912.8	949.8	1036.8	1179.9	1233.3
30°	1630.9	1617.1	1502.7	1391.8	1231.1	1073.4	996.5	1018.5	1121.6	1302.1	1346.2
32.5°	1755.7	1747.4	1691.4	1589.4	1419.4	1242.3	1129.1	1121.2	1235.2	1448.9	1469.1
35°	1884.9	1882.3	1849.4	1776.2	1621.5	1465.0	1305.1	1252.0	1358.9	1601.4	1588.7
37.5°	2005.2	2000.8	1981.7	1939.1	1833.0	1704.1	1484.4	1386.2	1492.3	1747.1	1690.7
40°	2226.8	2191.7	2126.3	2094.2	2046.7	1905.5	1626.8	1511.3	1630.5	1886.1	1778.8
42.5°	2496.9	2439.8	2318.0	2273.9	2267.2	2064.3	1723.9	1632.7	1769.9	2023.9	1865.5
45°	2709.5	2655.7	2550.7	2495.1	2519.7	2208.1	1821.4	1762.4	1913.3	2168.5	1954.8
47.5°	2936.3	2851.9	2712.9	2729.7	2783.5	2344.1	1920.8	1901.8	2070.6	2330.3	2065.8
50°	2944.5	2879.9	2819.0	2919.5	3003.2	2469.3	2045.2	2047.8	2263.0	2533.9	2213.4
52.5°	2773.8	2760.0	2856.7	3014.8	3135.5	2568.3	2186.8	2198.8	2509.3	2767.8	2375.5
55°	2714.0	2698.3	2810.0	2981.5	3153.4	2650.1	2340.4	2362.1	2807.0	3014.4	2533.6
57.5°	2859.7	2825.0	2832.5	2965.8	3109.7	2739.8	2507.8	2551.5	3130.6	3230.0	2635.2
60°	3267.0	3192.6	3051.4	3048.0	3133.2	2874.3	2701.3	2754.7	3466.9	3333.1	2595.6
62.5°	3838.3	3763.9	3499.4	3327.1	3314.4	3096.2	2938.9	2953.1	3661.2	3193.4	2353.8
65°	4456.6	4390.1	4094.6	3851.3	3734.0	3463.9	3215.0	3041.7	3597.6	2808.9	1930.9
67.5°	5207.2	5135.9	4881.8	4657.2	4544.4	4057.2	3409.0	2956.9	3194.5	2176.0	1388.0
70°	5732.2	5659.3	5559.2	5741.1	6017.2	4913.2	3434.0	2612.0	2386.0	1446.3	835.4
72.5°	5047.3	5013.3	5196.0	5962.3	7112.3	5432.5	3104.1	1901.8	1385.8	767.8	483.5
73°	4624.4	4616.9	4928.5	5807.3	7120.2	5352.6	2959.5	1767.6	1188.5	679.3	442.0
75°	2088.2	2148.3	2831.3	4435.7	6186.1	4410.6	2083.0	1014.0	671.4	469.3	333.6
77.5°	501.8	522.7	885.9	2106.5	3906.6	2628.5	943.8	501.4	429.3	331.4	243.6
80°	213.7	220.8	341.1	778.3	1839.4	1058.5	434.9	335.9	297.0	231.3	170.7
82.5°	118.8	126.3	193.5	353.1	742.4	360.9	265.3	233.9	195.4	139.4	111.0
85°	67.3	71.4	113.2	197.3	314.6	145.0	158.8	155.4	110.2	71.7	54.5
87.5°	31.8	34.4	54.5	91.5	123.3	56.8	80.7	88.9	69.1	43.7	28.4
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°	1174.3	1174.3	1174.3	1174.3	1174.3	1174.3	1174.3	1174.3	1174.3	1174.3
2.5°	1173.6	1180.3	1188.1	1192.2	1196.0	1200.5	1204.9	1204.9	1205.7	1206.1
5°	1165.3	1179.2	1191.5	1196.7	1197.8	1197.8	1196.7	1190.7	1185.5	1187.8
7.5°	1148.2	1168.3	1178.8	1176.9	1162.7	1146.3	1132.5	1115.6	1107.1	1105.6
10°	1123.5	1146.7	1148.5	1129.8	1094.7	1059.6	1030.5	1002.1	988.6	985.3
12.5°	1096.2	1117.5	1105.6	1067.1	1010.7	959.5	922.5	893.7	881.0	877.6
15°	1074.2	1088.7	1058.5	998.0	927.0	872.8	842.2	820.9	811.9	809.3
17.5°	1062.6	1065.6	1010.3	928.5	853.0	807.8	788.7	778.6	775.3	773.4
20°	1068.2	1047.3	964.3	863.8	792.5	760.7	756.2	753.6	752.9	751.7
22.5°	1096.2	1041.7	922.1	802.5	739.4	725.6	729.3	728.9	728.2	727.4
25°	1146.3	1046.5	881.0	744.3	694.9	692.0	698.7	698.7	695.7	695.7
27.5°	1212.4	1056.6	835.1	689.0	654.6	655.0	660.2	658.7	655.3	653.1
30°	1293.1	1063.0	781.3	639.3	616.9	615.4	616.9	610.5	600.4	599.7
32.5°	1375.7	1055.1	718.9	595.2	576.9	573.5	572.4	563.4	551.8	548.5
35°	1450.4	1026.3	655.3	560.1	538.8	531.3	536.5	533.5	523.1	520.5
37.5°	1505.0	972.9	598.2	529.1	511.5	509.6	513.0	514.1	501.8	499.2
40°	1541.6	900.4	549.2	502.9	506.3	499.2	488.0	480.1	476.4	475.3
42.5°	1571.1	825.0	508.1	490.6	507.4	486.8	462.5	449.8	456.6	459.6
45°	1605.1	751.4	473.8	475.3	501.8	472.6	445.0	432.7	435.3	436.0
47.5°	1651.8	661.7	436.8	450.6	483.1	462.9	434.2	416.6	404.3	398.7
50°	1716.4	555.6	398.3	422.9	464.8	455.8	417.3	398.7	375.9	370.6
52.5°	1761.3	456.6	366.5	399.8	448.4	441.6	403.9	379.6	355.7	351.2
55°	1737.0	379.2	338.9	374.0	426.7	424.1	392.7	360.2	341.5	337.8
57.5°	1615.6	330.3	317.6	349.7	400.2	409.1	377.7	343.7	330.3	327.7
60°	1383.9	299.6	304.1	333.3	378.5	394.2	362.8	334.8	325.8	323.9
62.5°	1073.8	279.1	294.0	321.3	361.7	383.7	354.6	333.6	330.3	328.0
65°	769.3	262.7	283.2	309.4	346.4	374.0	351.6	332.2	332.9	331.0
67.5°	522.7	248.1	270.1	295.9	331.4	365.4	347.5	326.9	336.3	334.0
70°	365.8	233.9	254.8	278.7	312.7	353.4	340.0	319.1	318.3	309.4
72.5°	285.4	215.2	233.9	254.8	288.8	336.6	325.1	301.5	289.2	279.8
73°	272.4	210.7	228.7	249.6	283.6	332.5	320.9	296.7	282.8	274.2
75°	225.3	191.3	207.7	226.4	261.2	313.1	300.8	274.6	257.1	251.8
77.5°	177.1	163.6	179.3	196.2	230.2	284.7	270.9	245.8	236.1	231.6
80°	131.1	135.6	149.5	164.4	199.5	254.4	242.1	217.1	260.4	249.6
82.5°	92.3	102.7	115.5	128.9	167.4	224.9	210.0	184.2	190.5	158.4
85°	54.5	67.3	79.2	90.8	120.7	186.4	173.4	146.8	120.3	114.7
87.5°	31.8	37.4	40.7	52.7	82.9	140.5	122.2	108.7	62.4	42.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)