

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: STREETWORKS

Report Number: P300424

Luminaire Tested: **GAA-AF-02-LED-U-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300424
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: STREETWORKS
Catalog Number: GAA-AF-02-LED-U-T4FT-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 80 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: 6564.1 lumens
Efficiency: N/A
Efficacy: 99.5 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: 28.75 FT

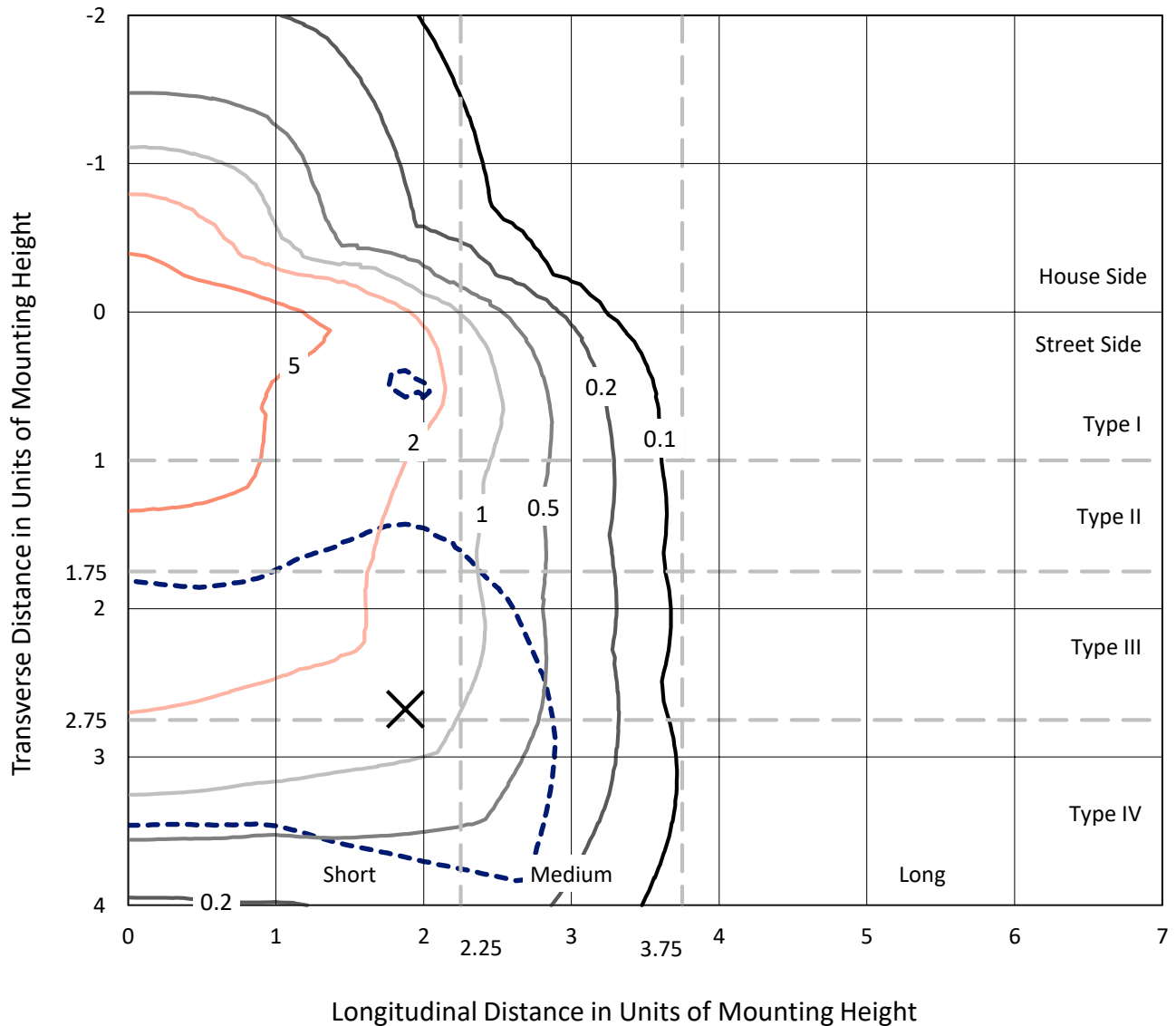


REPORT NUMBER: P300424

CATALOG NUMBER: GAA-AF-02-LED-U-T4FT-8030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

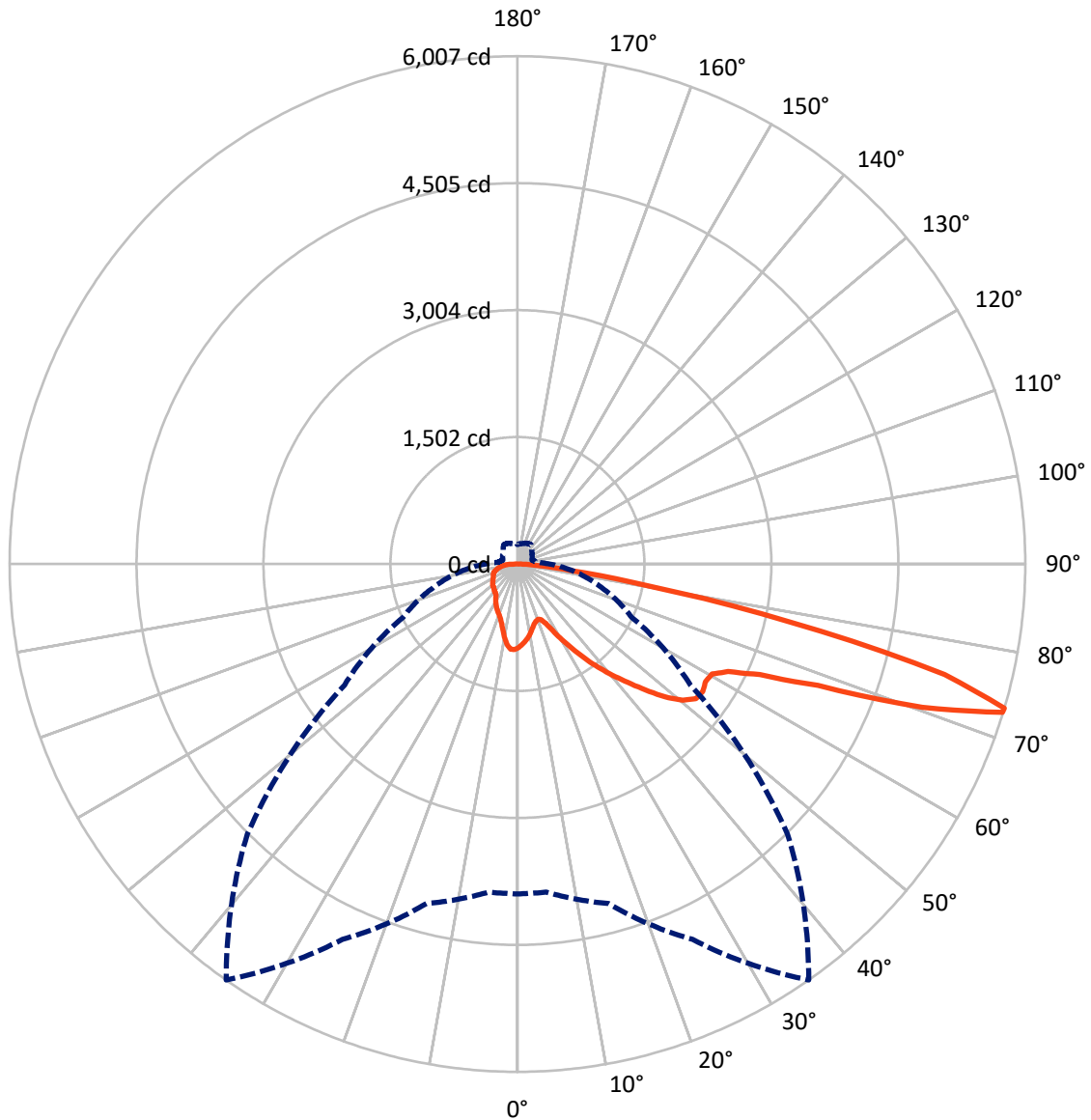


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P300424

CATALOG NUMBER: GAA-AF-02-LED-U-T4FT-8030-600

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GAA-AF-02-LED-U-T4FT-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1252.0	0.0	1252.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	5312.2	0.0	5312.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	6564.1	0.0	6564.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.4
10°-20°	223.9	3.4
20°-30°	361.9	5.5
30°-40°	606.8	9.2
40°-50°	935.4	14.3
50°-60°	1255.0	19.1
60°-70°	1671.8	25.5
70°-80°	1275.1	19.4
80°-90°	144.5	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°	6564.1	100.0
0°-180°	6564.1	100.0

Coefficient of Utilization



REPORT NUMBER: P300424

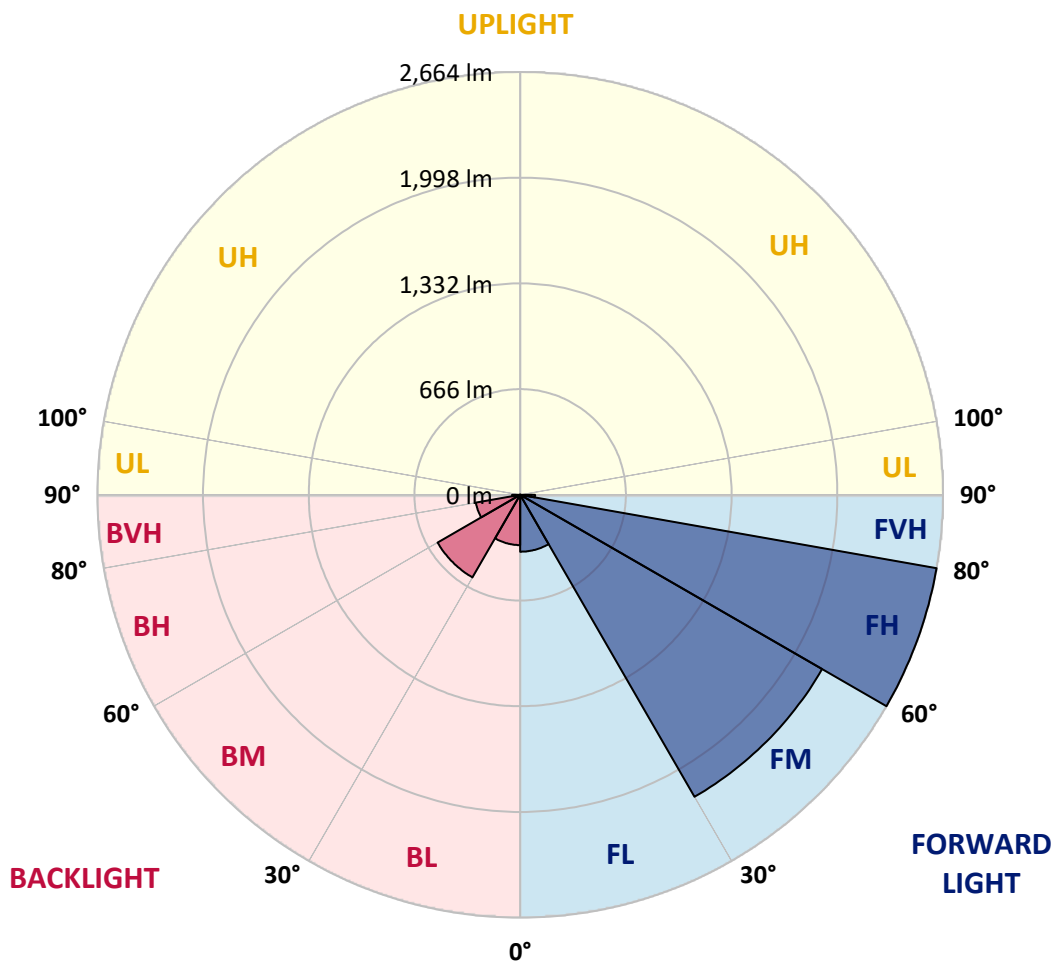
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.6	5.5			
FM	(30°-60°)	2196.4	33.5			
FH	(60°-80°)	2663.7	40.6			G2/5000
FVH	(80°-90°)	93.4	1.4			G1/100
BL	(0°-30°)	316.8	4.8	B1/500		
BM	(30°-60°)	600.8	9.2	B1/1000		
BH	(60°-80°)	283.2	4.3	B1/500		G1/500
BVH	(80°-90°)	51.1	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: P300424

CATALOG NUMBER: GAA-AF-02-LED-U-T4FT-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7
2.5°	951.6	953.5	951.3	954.2	958.9	963.9	967.4	972.4	978.1	986.0	987.9
5°	906.9	909.7	909.7	914.8	923.9	932.1	939.7	947.9	959.8	973.4	978.8
7.5°	857.7	859.3	862.1	869.7	882.9	894.6	905.3	918.5	934.9	952.9	962.4
10°	798.4	800.7	805.1	815.8	833.8	849.8	865.3	883.6	904.4	926.7	938.7
12.5°	756.5	755.9	757.8	765.7	781.4	801.0	823.3	846.7	872.2	898.4	912.9
15°	742.3	738.9	731.6	729.7	738.2	757.8	783.6	812.3	842.9	874.4	892.4
17.5°	751.2	745.2	725.3	710.8	709.6	724.4	751.8	783.9	819.3	857.7	880.1
20°	806.6	792.5	743.6	709.9	698.2	705.5	729.4	763.5	805.1	856.1	884.8
22.5°	939.3	918.5	814.8	752.1	712.7	703.9	721.8	758.1	806.6	875.7	912.2
25°	1132.6	1102.9	937.1	857.4	776.1	729.1	733.2	770.4	829.0	921.1	965.2
27.5°	1285.1	1265.9	1097.0	1005.9	891.4	797.2	770.1	801.3	874.7	995.5	1040.5
30°	1375.9	1364.3	1267.8	1174.2	1038.6	905.6	840.7	859.3	946.3	1098.5	1135.7
32.5°	1481.2	1474.3	1427.0	1340.9	1197.5	1048.1	952.6	946.0	1042.1	1222.4	1239.4
35°	1590.3	1588.1	1560.3	1498.5	1368.0	1236.0	1101.1	1056.3	1146.4	1351.0	1340.3
37.5°	1691.8	1688.0	1671.9	1636.0	1546.5	1437.7	1252.4	1169.5	1259.0	1474.0	1426.4
40°	1878.7	1849.1	1793.9	1766.8	1726.8	1607.6	1372.5	1275.1	1375.6	1591.2	1500.8
42.5°	2106.6	2058.4	1955.6	1918.4	1912.7	1741.6	1454.4	1377.5	1493.2	1707.5	1573.9
45°	2286.0	2240.6	2152.0	2105.0	2125.8	1862.9	1536.7	1486.9	1614.2	1829.5	1649.2
47.5°	2477.3	2406.1	2288.8	2303.0	2348.4	1977.7	1620.5	1604.5	1746.9	1966.0	1742.8
50°	2484.2	2429.7	2378.3	2463.1	2533.7	2083.3	1725.5	1727.7	1909.3	2137.8	1867.4
52.5°	2340.2	2328.5	2410.2	2543.5	2645.3	2166.8	1845.0	1855.1	2117.0	2335.1	2004.2
55°	2289.7	2276.5	2370.8	2515.4	2660.4	2235.8	1974.5	1992.8	2368.2	2543.2	2137.5
57.5°	2412.7	2383.4	2389.7	2502.2	2623.6	2311.5	2115.7	2152.6	2641.2	2725.1	2223.2
60°	2756.3	2693.5	2574.4	2571.5	2643.4	2425.0	2279.0	2324.1	2924.9	2812.1	2189.8
62.5°	3238.2	3175.5	2952.3	2807.0	2796.3	2612.2	2479.5	2491.5	3088.8	2694.2	1985.9
65°	3759.9	3703.8	3454.5	3249.3	3150.3	2922.4	2712.4	2566.2	3035.2	2369.8	1629.0
67.5°	4393.2	4333.0	4118.6	3929.2	3834.0	3423.0	2876.0	2494.6	2695.1	1835.8	1171.0
70°	4836.1	4774.6	4690.1	4843.6	5076.6	4145.1	2897.2	2203.7	2013.0	1220.2	704.8
72.5°	4258.3	4229.6	4383.7	5030.2	6000.5	4583.3	2618.8	1604.5	1169.1	647.8	407.9
73°	3901.5	3895.1	4158.0	4899.4	6007.1	4515.8	2496.8	1491.3	1002.7	573.1	372.9
75°	1761.8	1812.5	2388.7	3742.3	5219.1	3721.1	1757.3	855.5	566.4	395.9	281.5
77.5°	423.3	441.0	747.4	1777.2	3295.9	2217.6	796.2	423.0	362.2	279.6	205.5
80°	180.3	186.3	287.8	656.6	1551.8	893.0	366.9	283.4	250.6	195.1	144.1
82.5°	100.2	106.5	163.3	297.9	626.3	304.5	223.8	197.3	164.9	117.6	93.6
85°	56.7	60.2	95.5	166.4	265.4	122.3	134.0	131.1	93.0	60.5	46.0
87.5°	26.8	29.0	46.0	77.2	104.0	47.9	68.1	75.0	58.3	36.9	24.0
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: P300424

CATALOG NUMBER: GAA-AF-02-LED-U-T4FT-8030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7
2.5°	990.1	995.8	1002.4	1005.9	1009.0	1012.8	1016.6	1016.6	1017.2	1017.5
5°	983.2	994.8	1005.2	1009.6	1010.6	1010.6	1009.6	1004.6	1000.2	1002.1
7.5°	968.7	985.7	994.5	992.9	981.0	967.1	955.4	941.2	934.0	932.7
10°	947.9	967.4	969.0	953.2	923.6	894.0	869.4	845.4	834.1	831.2
12.5°	924.8	942.8	932.7	900.3	852.7	809.5	778.3	754.0	743.3	740.4
15°	906.3	918.5	893.0	841.9	782.1	736.3	710.5	692.5	685.0	682.8
17.5°	896.5	899.0	852.3	783.3	719.6	681.5	665.4	656.9	654.1	652.5
20°	901.2	883.6	813.6	728.8	668.6	641.8	638.0	635.8	635.2	634.2
22.5°	924.8	878.8	778.0	677.1	623.8	612.2	615.3	615.0	614.4	613.7
25°	967.1	882.9	743.3	627.9	586.3	583.8	589.5	589.5	586.9	586.9
27.5°	1022.9	891.4	704.5	581.3	552.3	552.6	557.0	555.7	552.9	551.0
30°	1091.0	896.8	659.1	539.3	520.4	519.2	520.4	515.1	506.6	505.9
32.5°	1160.6	890.2	606.5	502.1	486.7	483.9	482.9	475.3	465.6	462.7
35°	1223.7	865.9	552.9	472.5	454.5	448.2	452.7	450.1	441.3	439.1
37.5°	1269.7	820.8	504.7	446.3	431.5	430.0	432.8	433.7	423.3	421.1
40°	1300.6	759.7	463.4	424.3	427.1	421.1	411.7	405.1	401.9	401.0
42.5°	1325.5	696.0	428.7	413.9	428.1	410.7	390.2	379.5	385.2	387.7
45°	1354.2	633.9	399.7	401.0	423.3	398.8	375.4	365.0	367.2	367.9
47.5°	1393.6	558.3	368.5	380.2	407.6	390.6	366.3	351.5	341.1	336.3
50°	1448.1	468.7	336.0	356.8	392.1	384.6	352.1	336.3	317.1	312.7
52.5°	1485.9	385.2	309.2	337.3	378.3	372.6	340.8	320.3	300.1	296.3
55°	1465.4	319.9	285.9	315.5	360.0	357.8	331.3	303.9	288.1	285.0
57.5°	1363.0	278.7	267.9	295.0	337.6	345.2	318.7	290.0	278.7	276.4
60°	1167.6	252.8	256.6	281.2	319.3	332.6	306.1	282.4	274.9	273.3
62.5°	905.9	235.5	248.1	271.1	305.1	323.7	299.1	281.5	278.7	276.8
65°	649.0	221.6	238.9	261.0	292.2	315.5	296.6	280.2	280.9	279.3
67.5°	441.0	209.3	227.9	249.7	279.6	308.3	293.2	275.8	283.7	281.8
70°	308.6	197.3	215.0	235.2	263.8	298.2	286.8	269.2	268.6	261.0
72.5°	240.8	181.6	197.3	215.0	243.7	284.0	274.2	254.4	244.0	236.1
73°	229.8	177.8	192.9	210.6	239.3	280.5	270.8	250.3	238.6	231.4
75°	190.1	161.4	175.3	191.0	220.3	264.2	253.8	231.7	216.9	212.5
77.5°	149.4	138.1	151.3	165.5	194.2	240.2	228.5	207.4	199.2	195.4
80°	110.6	114.4	126.1	138.7	168.3	214.7	204.3	183.1	219.7	210.6
82.5°	77.9	86.7	97.4	108.8	141.2	189.8	177.2	155.4	160.8	133.7
85°	46.0	56.7	66.8	76.6	101.8	157.3	146.3	123.9	101.5	96.8
87.5°	26.8	31.5	34.4	44.4	70.0	118.5	103.1	91.7	52.6	35.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)