

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: P193279

Luminaire Tested: **GAN-AF-01-LED-U-T4FT-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193279
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: GAN-AF-01-LED-U-T4FT-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6651.7 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
Input Voltage (V): NR
Input Current (A_{in}): 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

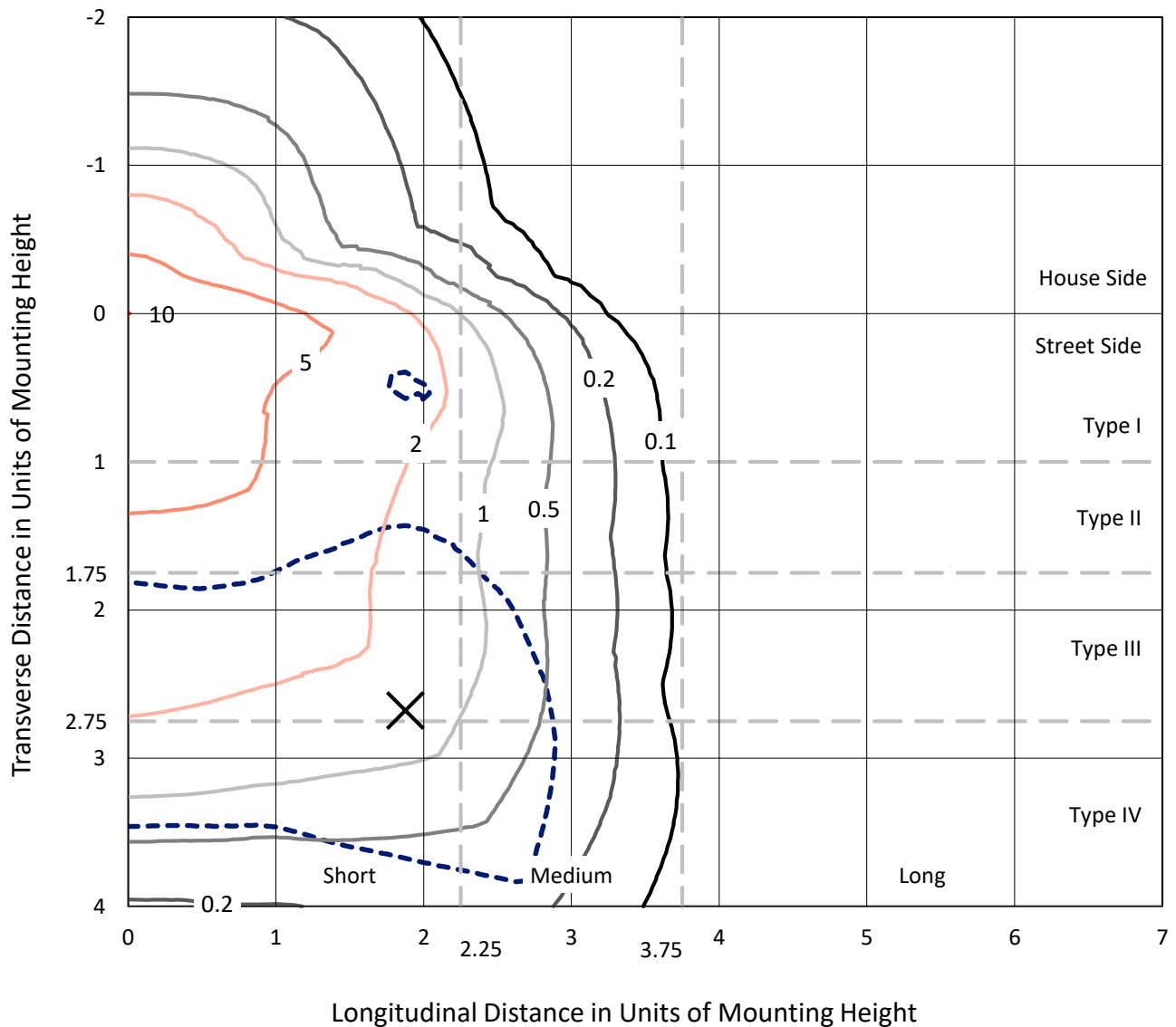


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

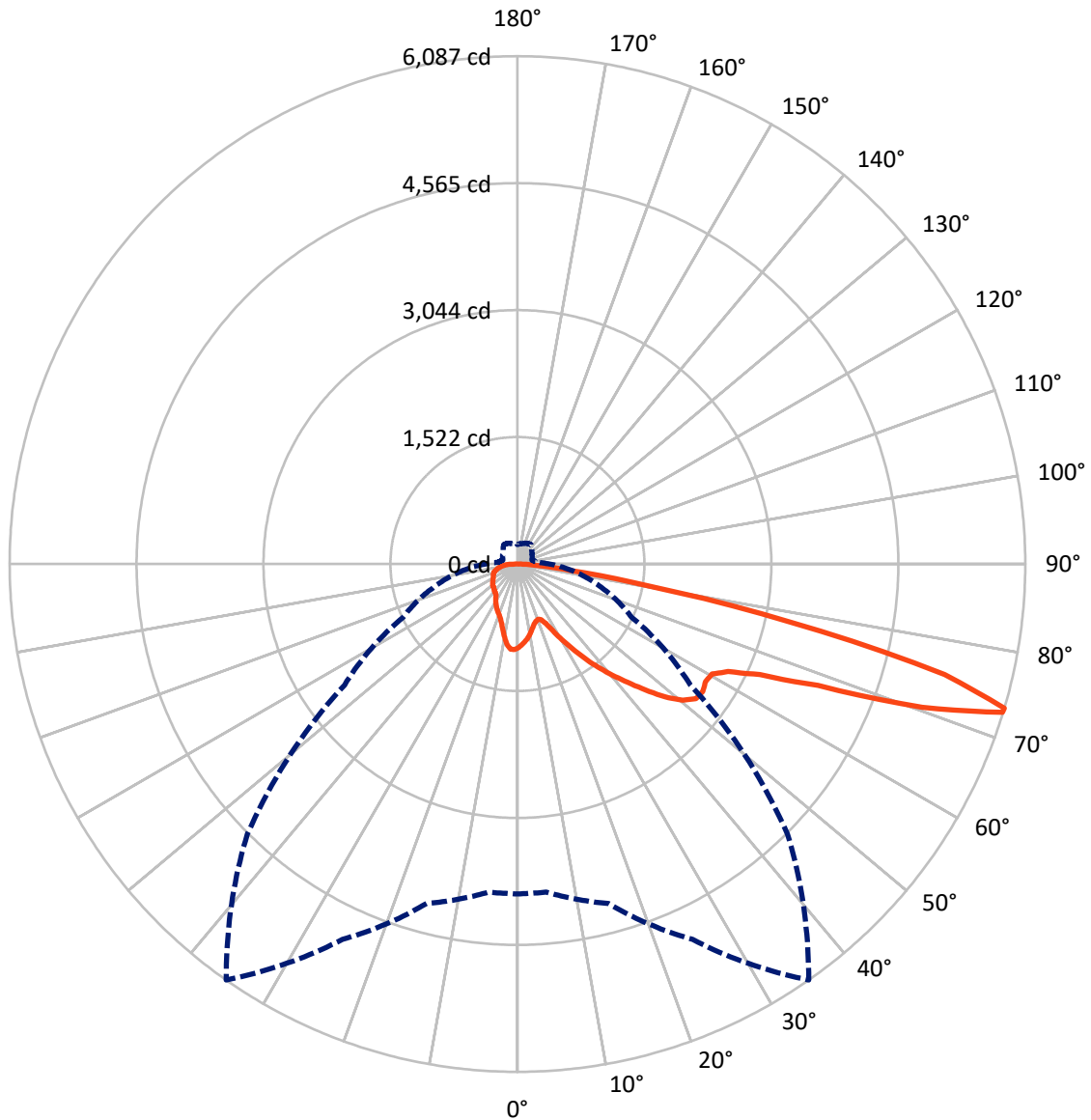


Based on 10 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - Non-Cutoff

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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
House Side	Lumens	1268.7	0.0	1268.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	5383.0	0.0	5383.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	6651.7	0.0	6651.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.4
10°-20°	226.8	3.4
20°-30°	366.7	5.5
30°-40°	614.9	9.2
40°-50°	947.9	14.3
50°-60°	1271.7	19.1
60°-70°	1694.2	25.5
70°-80°	1292.1	19.4
80°-90°	146.5	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°	6651.7	100.0
0°-180°	6651.7	100.0

Coefficient of Utilization



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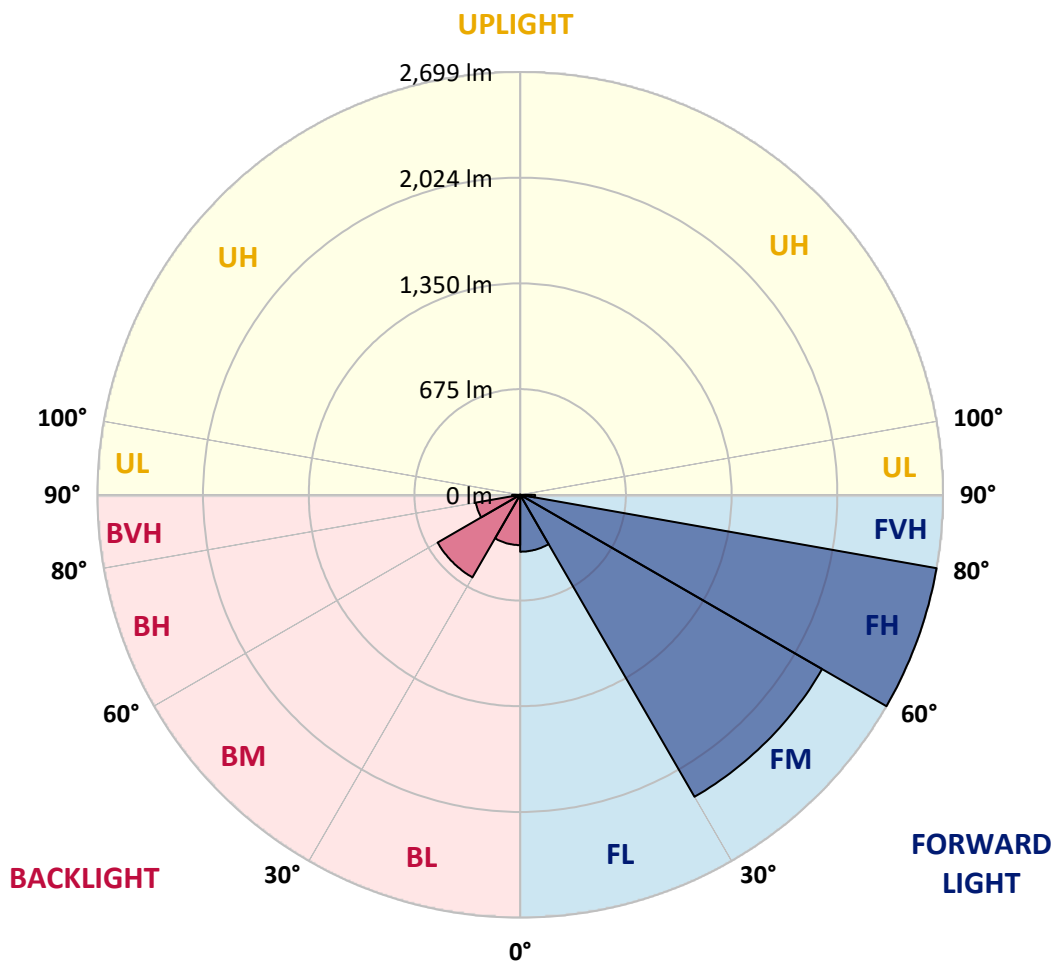
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.4	5.5			
FM	(30°-60°)	2225.7	33.5			
FH	(60°-80°)	2699.3	40.6			G2/5000
FVH	(80°-90°)	94.7	1.4			G1/100
BL	(0°-30°)	321.0	4.8	B1/500		
BM	(30°-60°)	608.8	9.2	B1/1000		
BH	(60°-80°)	287.0	4.3	B1/500		G1/500
BVH	(80°-90°)	51.8	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°	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0
2.5°	964.3	966.3	964.0	967.0	971.7	976.8	980.3	985.4	991.2	999.1	1001.1
5°	919.0	921.8	921.8	926.9	936.3	944.5	952.2	960.5	972.6	986.4	991.8
7.5°	869.1	870.8	873.6	881.2	894.8	906.6	917.3	930.8	947.4	965.7	975.2
10°	809.1	811.4	815.8	826.6	844.9	861.2	876.8	895.4	916.4	939.1	951.2
12.5°	766.6	766.0	767.9	775.8	791.8	811.7	834.3	858.0	883.8	910.3	925.1
15°	752.2	748.8	741.5	739.4	748.1	767.9	794.1	823.2	854.2	886.1	904.3
17.5°	761.2	755.1	735.0	720.3	719.0	734.0	761.9	794.5	830.2	869.1	891.9
20°	817.4	803.0	753.6	719.4	707.6	714.9	739.1	773.7	815.8	867.5	896.6
22.5°	951.8	930.8	825.7	762.2	722.2	713.3	731.5	768.2	817.4	887.4	924.5
25°	1147.7	1117.6	949.7	868.8	786.4	738.8	743.0	780.6	840.1	933.4	978.1
27.5°	1302.3	1282.8	1111.6	1019.3	903.3	807.9	780.3	812.1	886.4	1008.8	1054.5
30°	1394.2	1382.4	1284.7	1189.9	1052.5	917.7	851.9	870.8	958.9	1113.3	1150.9
32.5°	1501.0	1493.9	1446.0	1358.8	1213.6	1062.1	965.3	958.6	1056.0	1238.7	1255.9
35°	1611.5	1609.3	1581.2	1518.6	1386.3	1252.4	1115.7	1070.4	1161.8	1369.0	1358.2
37.5°	1714.4	1710.6	1694.2	1657.8	1567.1	1456.9	1269.0	1185.0	1275.8	1493.6	1445.4
40°	1903.8	1873.7	1817.8	1790.3	1749.8	1629.0	1390.8	1292.1	1393.9	1612.4	1520.8
42.5°	2134.7	2085.9	1981.8	1944.0	1938.3	1764.9	1473.8	1395.9	1513.1	1730.3	1594.8
45°	2316.6	2270.5	2180.7	2133.1	2154.1	1887.8	1557.2	1506.6	1635.7	1853.9	1671.2
47.5°	2510.3	2438.1	2319.3	2333.7	2379.6	2004.1	1642.1	1625.9	1770.2	1992.3	1766.0
50°	2517.4	2462.1	2410.0	2496.0	2567.5	2111.1	1748.4	1750.8	1934.8	2166.3	1892.3
52.5°	2371.4	2359.6	2442.3	2577.4	2680.5	2195.7	1869.5	1879.8	2145.2	2366.3	2030.9
55°	2320.3	2306.9	2402.4	2549.0	2696.0	2265.7	2000.9	2019.4	2399.9	2577.1	2166.1
57.5°	2444.9	2415.1	2421.5	2535.6	2658.6	2342.3	2144.0	2181.4	2676.5	2761.4	2252.9
60°	2793.0	2729.6	2608.8	2605.9	2678.7	2457.3	2309.4	2355.1	2963.9	2849.6	2219.0
62.5°	3281.5	3217.9	2991.7	2844.4	2833.6	2647.1	2512.6	2524.8	3130.1	2730.1	2012.3
65°	3810.1	3753.3	3500.5	3292.6	3192.3	2961.4	2748.6	2600.5	3075.7	2401.4	1650.8
67.5°	4451.8	4390.8	4173.6	3981.6	3885.2	3468.7	2914.4	2527.9	2731.1	1860.3	1186.7
70°	4900.6	4838.3	4752.7	4908.3	5144.4	4200.5	2935.8	2233.0	2039.9	1236.5	714.2
72.5°	4315.0	4286.0	4442.3	5097.4	6080.5	4644.4	2653.8	1625.9	1184.7	656.4	413.3
73°	3953.5	3947.1	4213.5	4964.8	6087.3	4576.1	2530.1	1511.2	1016.1	580.7	377.9
75°	1785.3	1836.6	2420.6	3792.2	5288.7	3770.7	1780.8	866.9	574.0	401.2	285.2
77.5°	429.0	446.9	757.3	1800.9	3339.9	2247.1	806.9	428.7	367.0	283.3	208.2
80°	182.7	188.8	291.6	665.4	1572.6	904.8	371.8	287.2	253.9	197.8	146.0
82.5°	101.6	107.9	165.4	301.9	634.7	308.5	226.8	200.0	167.0	119.1	94.8
85°	57.5	60.9	96.8	168.7	269.0	123.9	135.8	132.9	94.2	61.3	46.7
87.5°	27.2	29.4	46.7	78.2	105.4	48.5	69.0	76.1	59.1	37.3	24.2
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°	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0
2.5°	1003.3	1009.0	1015.8	1019.3	1022.4	1026.3	1030.1	1030.1	1030.8	1031.1
5°	996.3	1008.1	1018.7	1023.1	1024.1	1024.1	1023.1	1018.0	1013.5	1015.4
7.5°	981.5	998.8	1007.8	1006.2	994.0	979.9	968.1	953.9	946.4	945.2
10°	960.5	980.3	981.9	966.0	936.0	905.9	880.9	856.7	845.2	842.3
12.5°	937.2	955.4	945.2	912.4	864.0	820.3	788.7	764.0	753.3	750.3
15°	918.4	930.8	904.8	853.2	792.4	746.1	720.0	701.8	694.2	691.8
17.5°	908.5	911.0	863.7	793.8	729.2	690.6	674.3	665.7	662.7	661.2
20°	913.2	895.4	824.5	738.5	677.5	650.3	646.5	644.3	643.6	642.7
22.5°	937.2	890.6	788.3	686.1	632.2	620.4	623.6	623.3	622.6	621.9
25°	979.9	894.8	753.3	636.3	594.2	591.5	597.3	597.3	594.8	594.8
27.5°	1036.6	903.3	713.9	589.0	559.6	560.0	564.5	563.1	560.3	558.4
30°	1105.4	908.7	667.9	546.6	527.4	526.1	527.4	521.9	513.3	512.7
32.5°	1176.0	902.1	614.6	508.8	493.2	490.3	489.4	481.8	471.8	468.9
35°	1240.0	877.5	560.3	478.8	460.6	454.2	458.7	456.1	447.2	444.9
37.5°	1286.6	831.8	511.5	452.4	437.2	435.7	438.5	439.6	429.0	426.7
40°	1318.0	769.8	469.6	429.9	432.7	426.7	417.2	410.5	407.3	406.3
42.5°	1343.2	705.3	434.5	419.4	433.8	416.2	395.4	384.6	390.4	392.9
45°	1372.3	642.3	405.1	406.3	429.0	404.0	380.4	369.9	372.1	372.8
47.5°	1412.1	565.8	373.4	385.2	413.0	395.7	371.2	356.1	345.6	340.8
50°	1467.5	474.9	340.5	361.5	397.3	389.7	356.8	340.8	321.3	316.9
52.5°	1505.8	390.4	313.3	341.8	383.3	377.6	345.3	324.5	304.1	300.3
55°	1485.1	324.2	289.7	319.7	364.8	362.5	335.8	307.9	291.9	288.8
57.5°	1381.1	282.3	271.5	299.0	342.1	349.7	323.0	293.9	282.3	280.1
60°	1183.2	256.2	260.0	284.9	323.6	336.9	310.2	286.2	278.5	277.0
62.5°	918.0	238.6	251.4	274.7	309.2	328.0	303.0	285.2	282.3	280.5
65°	657.7	224.5	242.1	264.5	296.1	319.7	300.6	284.0	284.6	283.0
67.5°	446.9	212.1	231.0	252.9	283.3	312.4	297.0	279.4	287.5	285.6
70°	312.7	200.0	217.9	238.3	267.3	302.2	290.6	272.8	272.2	264.5
72.5°	244.0	184.0	200.0	217.9	246.9	287.8	277.8	257.8	247.3	239.3
73°	232.8	180.2	195.5	213.4	242.4	284.3	274.3	253.6	241.8	234.5
75°	192.7	163.6	177.5	193.6	223.3	267.6	257.1	234.8	219.7	215.2
77.5°	151.5	140.0	153.3	167.7	196.7	243.4	231.6	210.3	201.9	198.1
80°	112.1	116.0	127.8	140.5	170.6	217.5	206.9	185.6	222.7	213.4
82.5°	78.8	87.9	98.7	110.3	143.1	192.3	179.5	157.5	162.9	135.5
85°	46.7	57.5	67.7	77.6	103.1	159.4	148.3	125.5	102.8	98.2
87.5°	27.2	31.9	34.9	45.1	70.9	120.0	104.5	93.0	53.3	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)