

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: P319186

Luminaire Tested: **GAN-SA2A-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7524 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

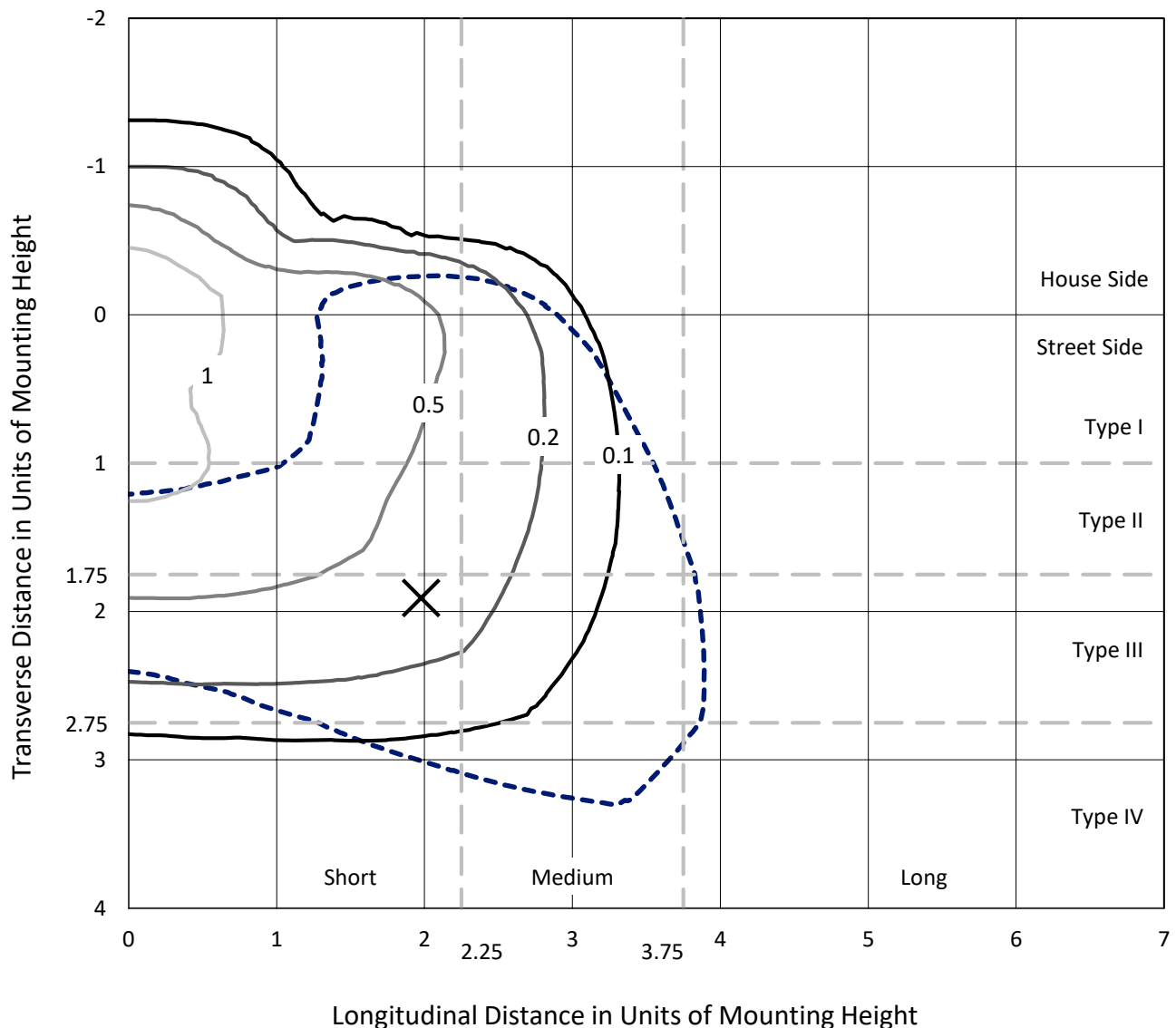
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

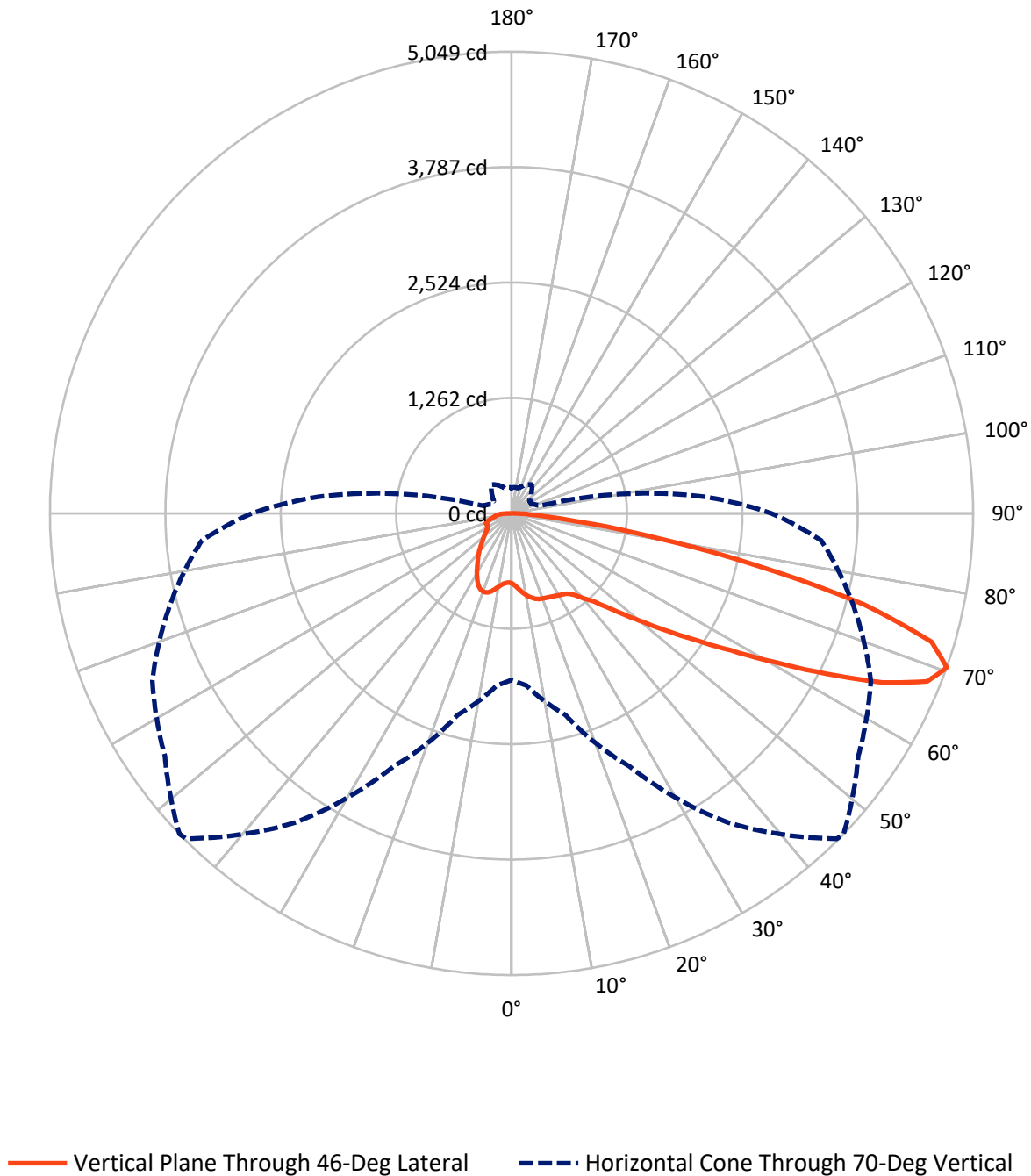
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1724.5	0.0	1724.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5799.5	0.0	5799.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	7524.0	0.0	7524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	1.0
10°-20°	260.4	3.5
20°-30°	434.1	5.8
30°-40°	616.0	8.2
40°-50°	906.1	12.0
50°-60°	1534.5	20.4
60°-70°	2178.3	29.0
70°-80°	1323.3	17.6
80°-90°	193.1	2.6
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°	7524.0	100.0
0°-180°	7524.0	100.0

Coefficient of Utilization



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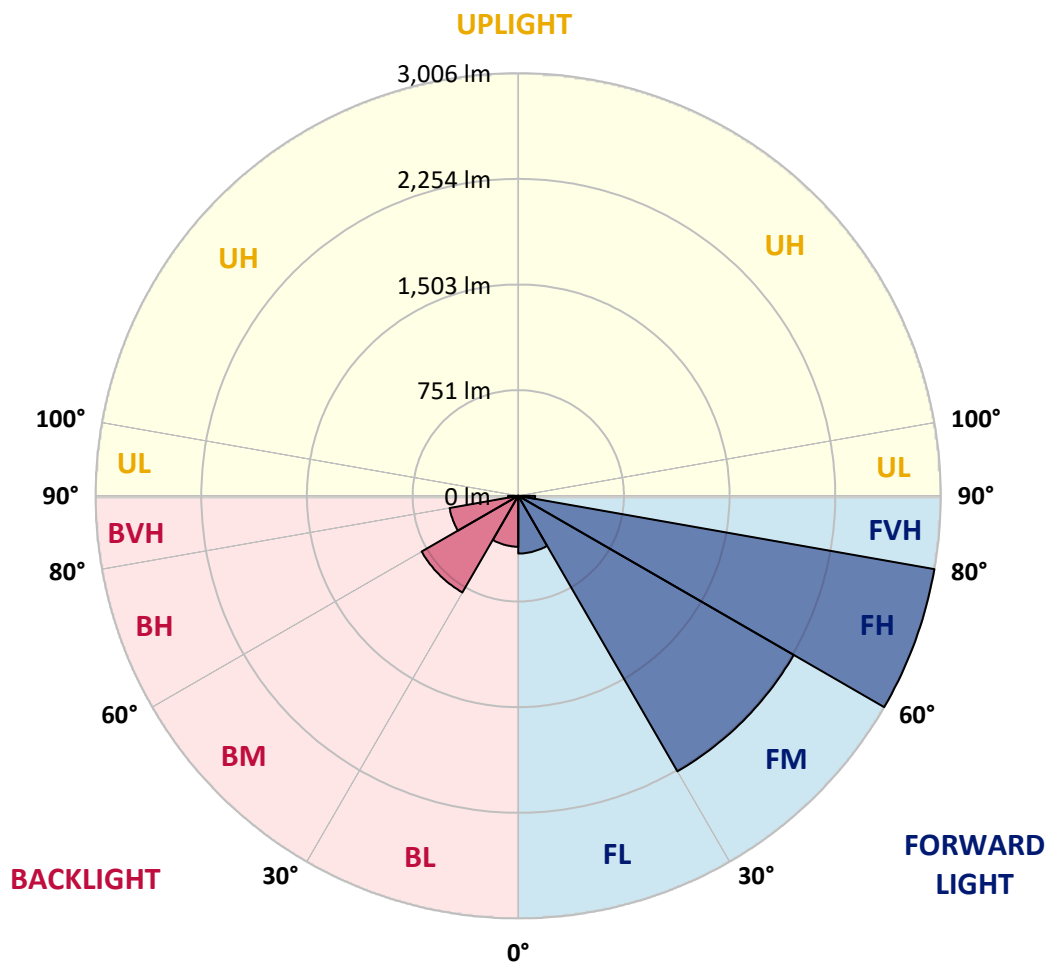
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	410.5	5.5			
FM	(30°-60°)	2262.9	30.1			
FH	(60°-80°)	3005.8	39.9			G2/5000
FVH	(80°-90°)	120.3	1.6			G2/225
BL	(0°-30°)	362.1	4.8	B1/500		
BM	(30°-60°)	793.8	10.6	B1/1000		
BH	(60°-80°)	495.8	6.6	B1/500		G1/500
BVH	(80°-90°)	72.8	1.0			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°	46°	55°	65°	75°	85°
0°	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5
2.5°	804.9	805.4	806.5	803.9	796.7	794.6	793.8	786.4	781.5	774.3	768.1
5°	869.3	869.8	868.3	861.0	845.1	833.2	832.2	815.2	799.8	783.3	770.9
7.5°	936.5	937.3	932.4	918.7	896.3	875.7	874.4	851.3	827.8	802.9	784.3
10°	996.0	992.9	984.9	965.8	939.3	914.1	913.1	888.9	861.8	831.7	807.0
12.5°	1035.6	1033.1	1022.8	999.6	970.5	947.3	945.2	922.8	896.6	863.6	834.0
15°	1057.5	1059.3	1045.4	1019.1	990.8	971.3	969.5	953.5	930.1	896.8	862.8
17.5°	1060.3	1061.9	1048.5	1022.5	999.3	985.9	985.2	974.6	957.6	925.7	890.1
20°	1043.9	1044.9	1033.8	1012.5	997.3	993.1	992.9	988.2	975.6	947.3	912.8
22.5°	1019.9	1020.7	1012.7	997.3	992.1	998.5	1000.3	998.5	989.5	963.0	930.6
25°	1014.0	1013.5	1005.2	989.5	993.9	1007.6	1009.9	1010.6	1004.5	981.3	953.2
27.5°	1042.6	1040.8	1025.1	999.8	1002.7	1019.1	1022.2	1029.7	1025.8	1005.5	979.0
30°	1125.2	1122.1	1090.0	1039.0	1025.1	1033.6	1037.4	1049.3	1050.0	1033.1	1013.2
32.5°	1264.8	1260.9	1203.3	1112.1	1062.9	1048.2	1051.8	1069.6	1079.1	1066.0	1044.6
35°	1441.2	1436.8	1361.1	1236.5	1126.3	1076.3	1078.9	1093.0	1112.1	1093.6	1065.2
37.5°	1625.0	1614.5	1541.6	1382.7	1226.9	1136.3	1136.3	1138.1	1147.1	1108.5	1089.4
40°	1807.8	1797.3	1731.4	1554.7	1357.2	1230.8	1224.9	1185.0	1177.8	1144.5	1138.1
42.5°	1977.8	1974.7	1935.8	1749.1	1510.2	1323.8	1315.5	1247.8	1249.3	1228.7	1229.0
45°	2158.5	2158.5	2126.9	1945.3	1688.4	1473.1	1464.9	1365.2	1380.7	1371.1	1394.1
47.5°	2306.1	2310.7	2306.3	2149.8	1895.6	1662.9	1647.9	1527.9	1571.2	1603.9	1670.6
50°	2456.7	2463.9	2464.7	2374.1	2146.2	1888.4	1871.4	1744.0	1840.5	1934.3	2065.3
52.5°	2675.3	2691.5	2626.9	2597.8	2453.1	2156.2	2139.5	2021.8	2183.0	2314.6	2540.4
55°	2878.0	2863.8	2817.7	2835.7	2781.7	2461.1	2448.5	2345.2	2564.6	2735.6	3028.9
57.5°	2987.7	2986.6	3033.0	3110.2	3136.0	2837.0	2826.5	2726.0	2994.9	3123.4	3487.4
60°	3116.4	3118.2	3233.0	3408.4	3514.5	3305.1	3300.5	3224.3	3412.8	3485.4	3847.2
62.5°	3134.4	3166.9	3364.6	3666.4	3868.8	3852.1	3862.4	3673.1	3786.7	3774.3	4115.7
65°	2927.1	2969.9	3327.8	3744.4	4221.0	4450.2	4459.7	4124.5	4081.5	4021.2	4211.8
67.5°	2502.3	2565.6	2954.4	3574.7	4337.2	4892.3	4905.7	4474.4	4326.1	4104.9	3980.5
70°	1821.0	1891.3	2282.7	3053.1	4130.1	5033.7	5048.9	4629.2	4335.4	3866.7	3398.1
72.5°	1100.0	1155.1	1477.7	2247.6	3485.9	4776.2	4803.2	4433.0	3958.1	3275.3	2509.2
75°	483.1	519.1	714.5	1295.2	2495.6	3951.7	3985.4	3794.4	3216.1	2380.2	1483.1
77.5°	205.7	216.0	293.0	562.6	1410.8	2700.3	2746.6	2772.4	2182.0	1295.2	626.7
80°	128.2	132.3	165.8	254.7	660.2	1516.6	1566.6	1631.2	1083.5	476.1	218.9
82.5°	78.0	82.7	110.2	154.0	343.7	687.5	711.4	757.0	420.5	205.7	113.3
85°	46.9	50.2	67.5	97.3	195.7	270.4	270.1	298.7	198.0	132.3	59.7
87.5°	22.4	25.0	36.0	50.5	98.6	101.5	95.0	107.6	120.2	86.8	30.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5
2.5°	766.0	765.0	761.7	759.1	758.6	757.0	755.7	756.5	757.5	757.8	757.8
5°	765.8	762.9	758.6	756.8	759.1	762.2	766.0	771.2	774.3	776.6	778.1
7.5°	778.1	772.7	767.8	766.8	771.4	779.7	788.4	799.2	806.7	811.9	812.9
10°	798.7	792.0	787.1	788.2	796.4	808.3	820.6	834.5	845.9	852.8	853.3
12.5°	822.4	816.0	811.4	815.7	829.4	843.8	856.7	868.8	879.1	886.0	886.0
15°	849.7	845.1	839.7	849.7	868.3	881.1	886.5	892.5	898.1	903.3	902.2
17.5°	876.0	871.6	868.8	880.6	899.9	905.9	902.2	897.9	897.9	900.7	901.2
20°	898.6	894.8	896.6	908.2	918.2	912.0	898.6	884.7	879.1	880.6	882.2
22.5°	918.5	916.7	922.1	927.5	920.3	898.6	873.9	855.1	848.2	847.7	848.2
25°	941.6	941.4	948.1	938.3	906.4	866.5	833.2	815.0	811.1	814.2	819.3
27.5°	970.5	973.3	976.7	940.9	878.0	817.8	784.1	771.4	775.3	782.8	787.7
30°	1007.3	1015.0	1007.8	934.4	837.4	762.2	730.0	726.4	736.9	747.5	752.6
32.5°	1043.1	1055.2	1037.7	917.7	784.8	703.2	678.2	677.2	690.1	700.4	707.6
35°	1071.9	1095.9	1060.1	884.5	724.1	648.9	630.6	623.6	628.3	640.4	648.6
37.5°	1109.5	1149.4	1075.5	833.8	658.1	604.1	582.7	566.7	562.6	567.5	571.6
40°	1178.3	1231.1	1082.7	762.9	593.8	559.3	537.6	514.2	498.0	486.1	486.4
42.5°	1290.5	1337.4	1078.1	676.9	534.3	515.5	491.0	464.0	437.7	411.0	408.9
45°	1472.8	1495.5	1064.2	585.8	482.0	469.7	446.7	419.7	384.7	354.3	351.5
47.5°	1764.6	1714.4	1042.6	506.2	435.9	430.8	409.7	378.5	341.4	317.0	314.9
50°	2162.4	2030.3	1032.0	442.9	395.2	396.8	379.5	346.6	311.6	293.5	291.5
52.5°	2638.2	2398.3	1052.4	394.0	362.5	368.0	355.1	324.2	294.8	280.7	278.6
55°	3131.9	2779.3	1074.2	358.4	331.6	342.2	337.8	312.3	285.8	272.7	270.9
57.5°	3554.4	3063.9	1030.5	329.6	304.1	320.6	324.4	304.9	281.2	269.3	267.3
60°	3820.4	3178.5	915.6	302.6	282.2	303.3	316.7	302.8	283.0	282.0	280.4
62.5°	3946.6	3168.4	743.4	281.2	268.6	295.9	322.4	314.4	303.6	312.9	313.6
65°	3889.9	3017.0	553.6	267.0	258.8	298.7	339.4	336.3	309.5	318.8	320.1
67.5°	3517.1	2655.8	409.9	254.7	248.0	306.7	370.3	343.5	297.9	304.6	300.5
70°	2842.7	2105.5	316.2	240.8	236.9	305.6	384.2	339.1	285.3	286.8	275.8
72.5°	1960.3	1435.8	257.2	227.9	220.9	278.6	374.4	328.3	274.7	262.9	248.2
75°	1066.0	770.7	218.6	214.5	192.9	244.6	356.4	320.6	265.2	249.5	241.3
77.5°	419.5	319.8	189.8	196.2	168.7	216.0	336.3	305.9	252.1	231.5	227.4
80°	171.2	163.2	157.3	169.7	145.0	189.0	312.1	288.6	236.4	214.7	206.5
82.5°	97.1	101.5	122.3	133.9	117.7	174.1	300.5	274.7	217.6	192.3	182.6
85°	49.7	59.5	85.2	96.0	86.5	148.1	276.8	240.5	174.6	147.3	148.1
87.5°	23.9	33.2	53.8	60.3	56.1	107.1	206.8	174.3	136.0	107.6	104.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)