

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: P319146

Luminaire Tested: **GAN-SA2A-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319146
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-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 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: 6960 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

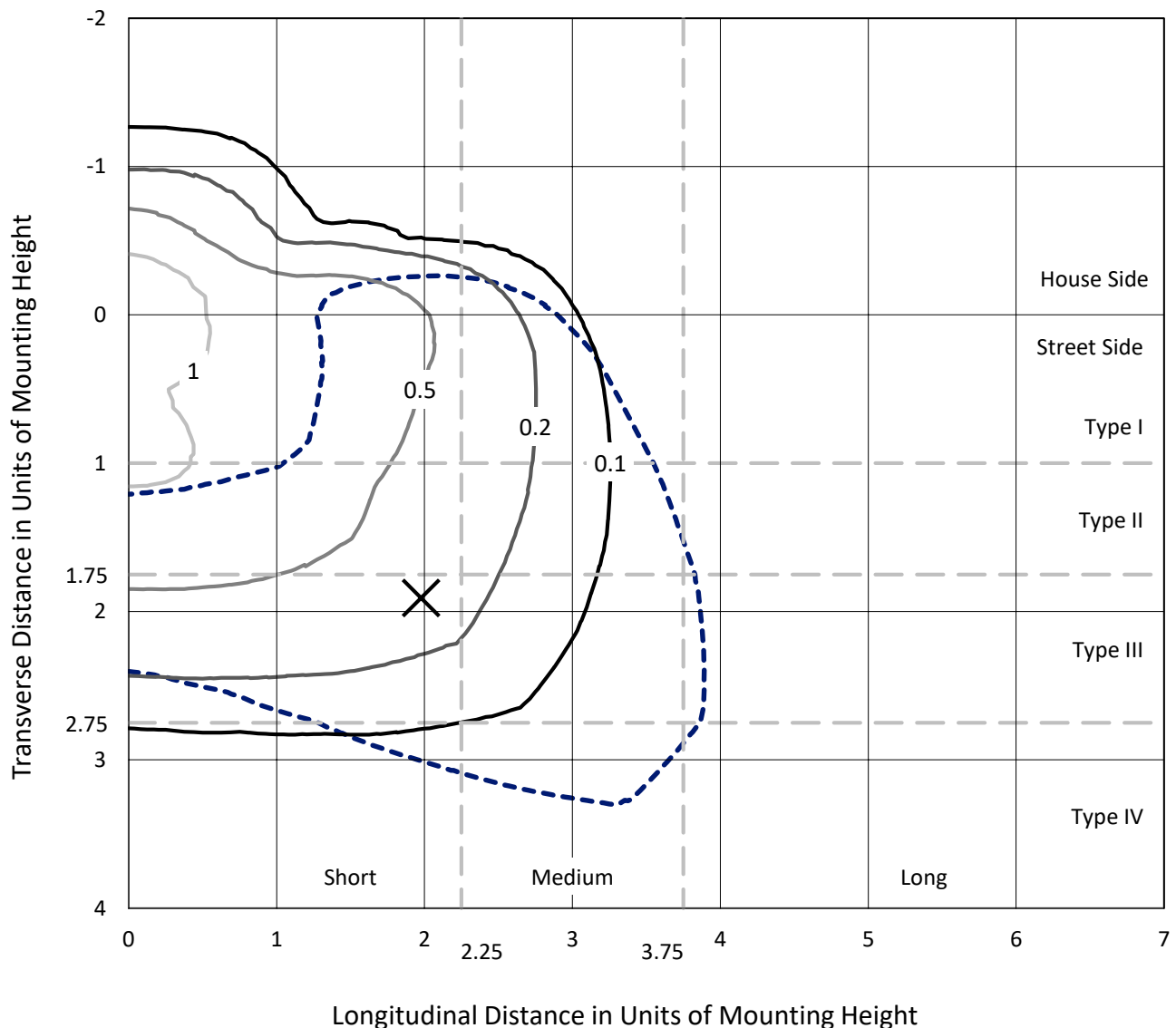
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319146
 CATALOG NUMBER: GAN-SA2A-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

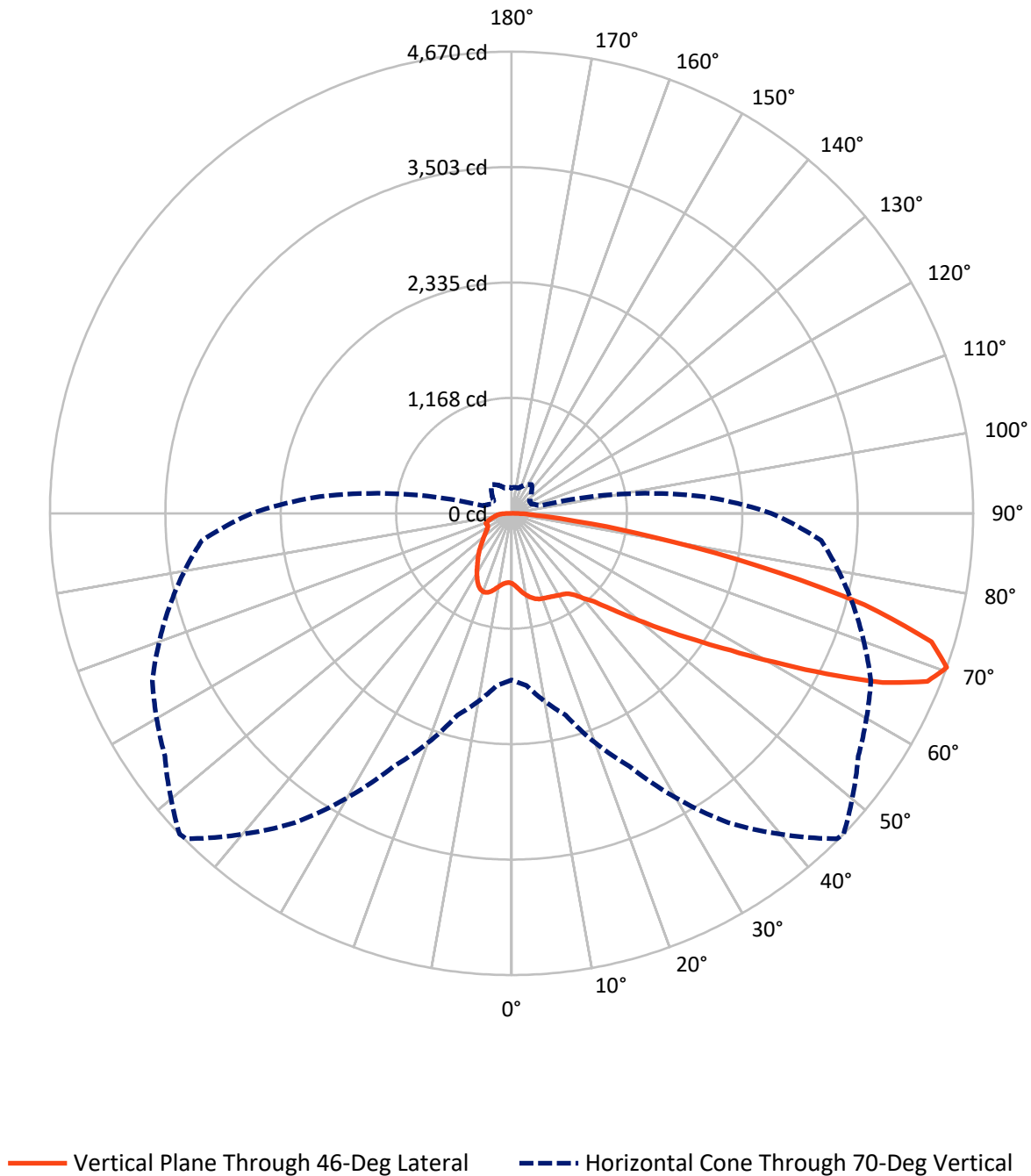
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P319146
CATALOG NUMBER: GAN-SA2A-827-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P319146

CATALOG NUMBER: GAN-SA2A-827-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1595.2	0.0	1595.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5364.8	0.0	5364.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	6960.0	0.0	6960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	1.0
10°-20°	240.8	3.5
20°-30°	401.6	5.8
30°-40°	569.8	8.2
40°-50°	838.2	12.0
50°-60°	1419.5	20.4
60°-70°	2015.0	29.0
70°-80°	1224.1	17.6
80°-90°	178.6	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°	6960.0	100.0
0°-180°	6960.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319146

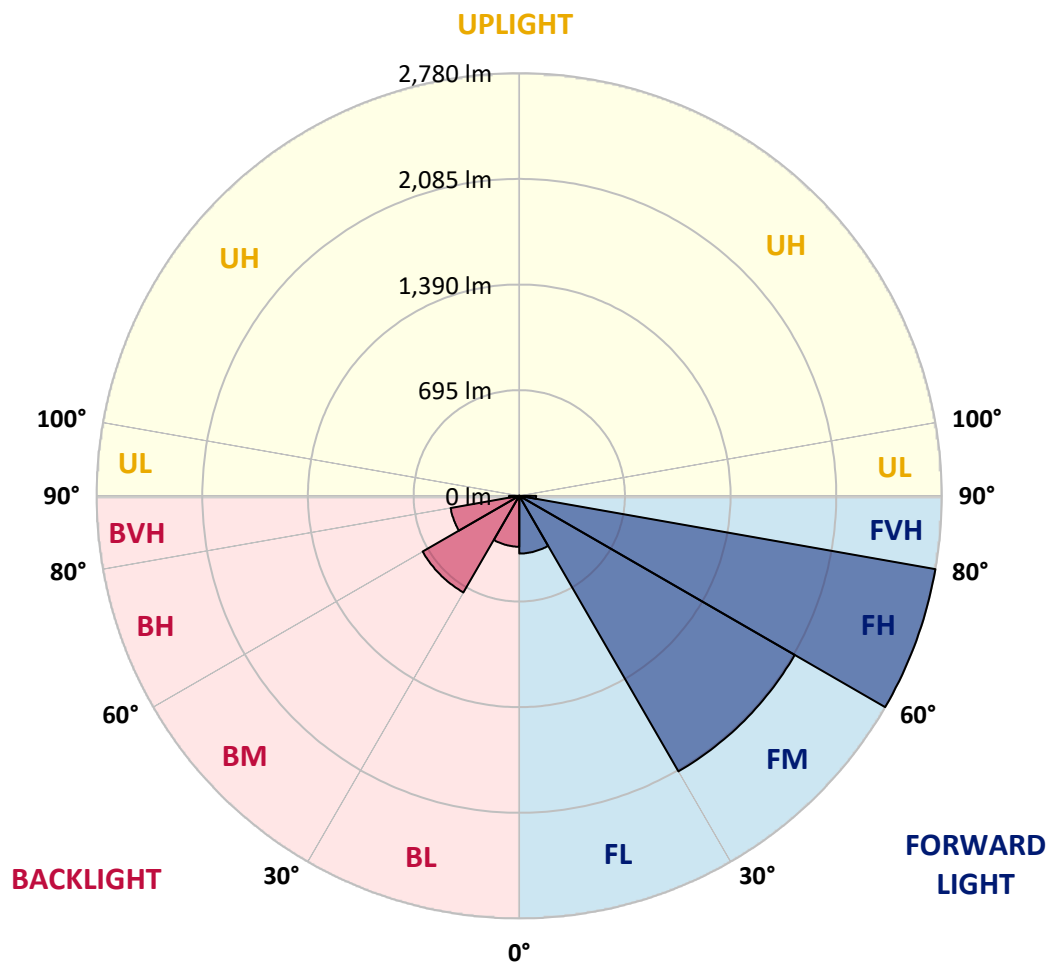
CATALOG NUMBER: GAN-SA2A-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	379.8	5.5			
FM	(30°-60°)	2093.3	30.1			
FH	(60°-80°)	2780.5	39.9			G2/5000
FVH	(80°-90°)	111.3	1.6			G2/225
BL	(0°-30°)	334.9	4.8	B1/500		
BM	(30°-60°)	734.3	10.6	B1/1000		
BH	(60°-80°)	458.6	6.6	B1/500		G1/500
BVH	(80°-90°)	67.4	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





REPORT NUMBER: P319146

CATALOG NUMBER: GAN-SA2A-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1
2.5°	744.6	745.1	746.0	743.6	737.0	735.1	734.3	727.4	722.9	716.2	710.5
5°	804.1	804.6	803.2	796.5	781.7	770.8	769.8	754.1	739.8	724.6	713.1
7.5°	866.3	867.0	862.5	849.9	829.1	810.1	808.9	787.5	765.8	742.7	725.5
10°	921.3	918.5	911.1	893.4	868.9	845.6	844.6	822.2	797.2	769.3	746.5
12.5°	958.0	955.6	946.1	924.6	897.7	876.3	874.4	853.7	829.4	798.9	771.5
15°	978.2	979.9	967.0	942.8	916.6	898.4	896.8	882.0	860.3	829.6	798.2
17.5°	980.9	982.3	969.9	945.8	924.4	912.0	911.3	901.5	885.8	856.3	823.4
20°	965.6	966.6	956.3	936.6	922.5	918.7	918.5	914.2	902.5	876.3	844.4
22.5°	943.5	944.2	936.8	922.5	917.7	923.7	925.4	923.7	915.4	890.8	860.8
25°	938.0	937.5	929.9	915.4	919.4	932.0	934.2	934.9	929.2	907.7	881.8
27.5°	964.4	962.8	948.2	924.9	927.5	942.8	945.6	952.5	948.9	930.1	905.6
30°	1040.9	1038.0	1008.3	961.1	948.2	956.1	959.7	970.6	971.3	955.6	937.3
32.5°	1170.0	1166.4	1113.1	1028.7	983.2	969.7	973.0	989.4	998.2	986.1	966.3
35°	1333.1	1329.1	1259.1	1143.8	1041.8	995.6	998.0	1011.1	1028.7	1011.6	985.4
37.5°	1503.2	1493.4	1426.0	1279.1	1135.0	1051.1	1051.1	1052.8	1061.1	1025.4	1007.8
40°	1672.3	1662.6	1601.6	1438.2	1255.5	1138.5	1133.1	1096.1	1089.5	1058.7	1052.8
42.5°	1829.5	1826.7	1790.7	1618.0	1397.0	1224.5	1216.9	1154.3	1155.7	1136.6	1136.9
45°	1996.7	1996.7	1967.4	1799.5	1561.8	1362.7	1355.1	1262.9	1277.2	1268.4	1289.6
47.5°	2133.2	2137.5	2133.5	1988.6	1753.5	1538.2	1524.4	1413.4	1453.4	1483.7	1545.4
50°	2272.6	2279.2	2279.9	2196.1	1985.3	1746.9	1731.2	1613.3	1702.6	1789.3	1910.5
52.5°	2474.8	2489.8	2430.0	2403.1	2269.2	1994.6	1979.1	1870.3	2019.4	2141.1	2350.0
55°	2662.2	2649.1	2606.5	2623.2	2573.2	2276.6	2264.9	2169.4	2372.4	2530.5	2801.8
57.5°	2763.7	2762.8	2805.6	2877.1	2900.9	2624.4	2614.6	2521.7	2770.4	2889.2	3226.0
60°	2882.8	2884.5	2990.7	3152.9	3251.0	3057.4	3053.1	2982.6	3157.0	3224.1	3558.8
62.5°	2899.5	2929.5	3112.4	3391.6	3578.8	3563.3	3572.8	3397.8	3502.8	3491.4	3807.2
65°	2707.7	2747.3	3078.4	3463.7	3904.6	4116.6	4125.4	3815.3	3775.5	3719.8	3896.1
67.5°	2314.7	2373.3	2733.0	3306.8	4012.1	4525.6	4538.0	4139.0	4001.8	3797.2	3682.2
70°	1684.5	1749.5	2111.5	2824.2	3820.5	4656.4	4670.4	4282.2	4010.4	3576.9	3143.4
72.5°	1017.5	1068.5	1367.0	2079.1	3224.6	4418.2	4443.2	4100.7	3661.4	3029.8	2321.1
75°	446.8	480.2	661.0	1198.1	2308.5	3655.5	3686.7	3509.9	2975.0	2201.8	1372.0
77.5°	190.3	199.8	271.1	520.4	1305.0	2497.9	2540.8	2564.6	2018.4	1198.1	579.8
80°	118.6	122.4	153.4	235.6	610.7	1402.9	1449.1	1508.9	1002.3	440.4	202.5
82.5°	72.2	76.5	101.9	142.4	318.0	636.0	658.1	700.3	389.0	190.3	104.8
85°	43.4	46.4	62.4	90.0	181.0	250.1	249.9	276.3	183.2	122.4	55.3
87.5°	20.7	23.1	33.3	46.7	91.2	93.8	87.9	99.6	111.2	80.3	27.9
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: P319146

CATALOG NUMBER: GAN-SA2A-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1	709.1
2.5°	708.6	707.7	704.6	702.2	701.7	700.3	699.1	699.8	700.8	701.0	701.0
5°	708.4	705.8	701.7	700.0	702.2	705.0	708.6	713.4	716.2	718.4	719.8
7.5°	719.8	714.8	710.3	709.3	713.6	721.2	729.3	739.3	746.2	751.0	752.0
10°	738.9	732.7	728.1	729.1	736.7	747.7	759.1	772.0	782.4	788.9	789.4
12.5°	760.8	754.8	750.5	754.6	767.2	780.5	792.5	803.6	813.2	819.6	819.6
15°	786.0	781.7	776.7	786.0	803.2	815.1	820.1	825.6	830.8	835.6	834.6
17.5°	810.3	806.3	803.6	814.6	832.5	837.9	834.6	830.6	830.6	833.2	833.7
20°	831.3	827.7	829.4	840.1	849.4	843.7	831.3	818.4	813.2	814.6	816.0
22.5°	849.6	848.0	853.0	858.0	851.3	831.3	808.4	791.0	784.6	784.1	784.6
25°	871.1	870.8	877.0	868.0	838.4	801.5	770.8	753.9	750.3	753.2	757.9
27.5°	897.7	900.4	903.4	870.3	812.2	756.5	725.3	713.6	717.2	724.1	728.6
30°	931.8	938.9	932.3	864.4	774.6	705.0	675.3	671.9	681.7	691.5	696.2
32.5°	964.9	976.1	959.9	848.9	726.0	650.5	627.4	626.4	638.3	647.9	654.5
35°	991.6	1013.7	980.6	818.2	669.8	600.2	583.3	576.9	581.2	592.4	600.0
37.5°	1026.4	1063.3	994.9	771.3	608.8	558.8	539.0	524.3	520.4	525.0	528.8
40°	1090.0	1138.8	1001.6	705.8	549.3	517.3	497.3	475.7	460.7	449.7	449.9
42.5°	1193.8	1237.2	997.3	626.2	494.2	476.9	454.2	429.2	404.9	380.1	378.2
45°	1362.4	1383.4	984.4	541.9	445.9	434.5	413.3	388.2	355.9	327.7	325.1
47.5°	1632.3	1585.9	964.4	468.3	403.3	398.5	379.0	350.1	315.8	293.2	291.3
50°	2000.3	1878.1	954.7	409.7	365.6	367.0	351.1	320.6	288.2	271.5	269.6
52.5°	2440.5	2218.5	973.5	364.4	335.4	340.4	328.5	299.9	272.7	259.6	257.7
55°	2897.1	2571.0	993.7	331.6	306.8	316.6	312.5	288.9	264.4	252.2	250.6
57.5°	3288.0	2834.2	953.2	304.9	281.3	296.5	300.1	282.0	260.1	249.1	247.2
60°	3534.0	2940.2	847.0	279.9	261.1	280.6	293.0	280.1	261.8	260.8	259.4
62.5°	3650.7	2930.9	687.7	260.1	248.4	273.7	298.2	290.8	280.8	289.4	290.1
65°	3598.3	2790.9	512.1	247.0	239.4	276.3	313.9	311.1	286.3	294.9	296.1
67.5°	3253.4	2456.7	379.2	235.6	229.4	283.7	342.5	317.7	275.6	281.8	278.0
70°	2629.6	1947.7	292.5	222.7	219.1	282.7	355.4	313.7	263.9	265.3	255.1
72.5°	1813.3	1328.1	238.0	210.8	204.4	257.7	346.3	303.7	254.1	243.2	229.6
75°	986.1	712.9	202.2	198.4	178.4	226.3	329.7	296.5	245.3	230.8	223.2
77.5°	388.0	295.8	175.5	181.5	156.0	199.8	311.1	283.0	233.2	214.1	210.3
80°	158.4	151.0	145.5	157.0	134.1	174.8	288.7	267.0	218.7	198.6	191.0
82.5°	89.8	93.8	113.1	123.9	108.9	161.0	278.0	254.1	201.3	177.9	168.9
85°	46.0	55.0	78.8	88.8	80.0	137.0	256.1	222.5	161.5	136.2	137.0
87.5°	22.2	30.7	49.8	55.7	51.9	99.1	191.3	161.3	125.8	99.6	96.5
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)