

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: P319175

Luminaire Tested: **GAN-SA1D-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319175
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-SA1D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5930 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

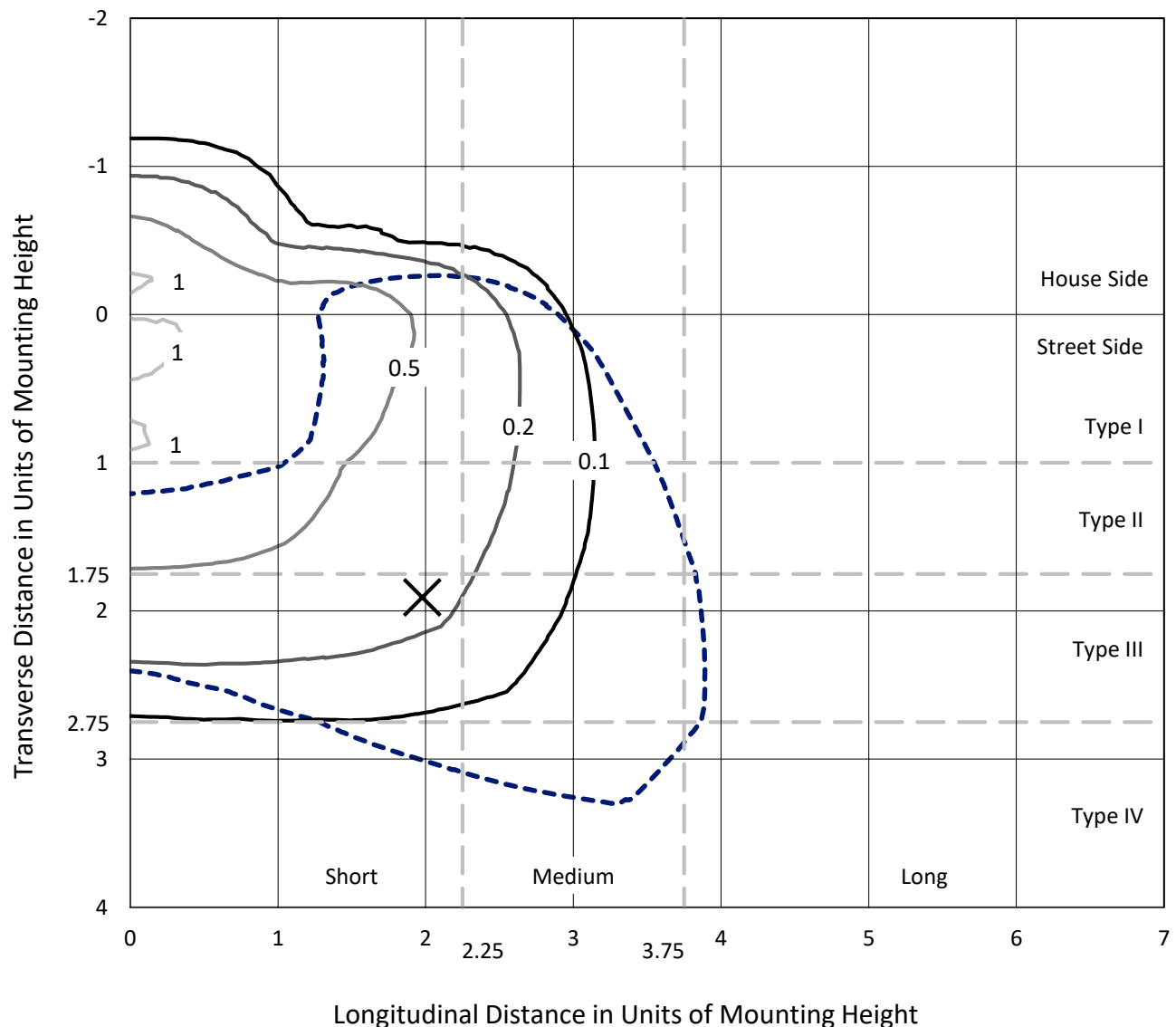
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319175
 CATALOG NUMBER: GAN-SA1D-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

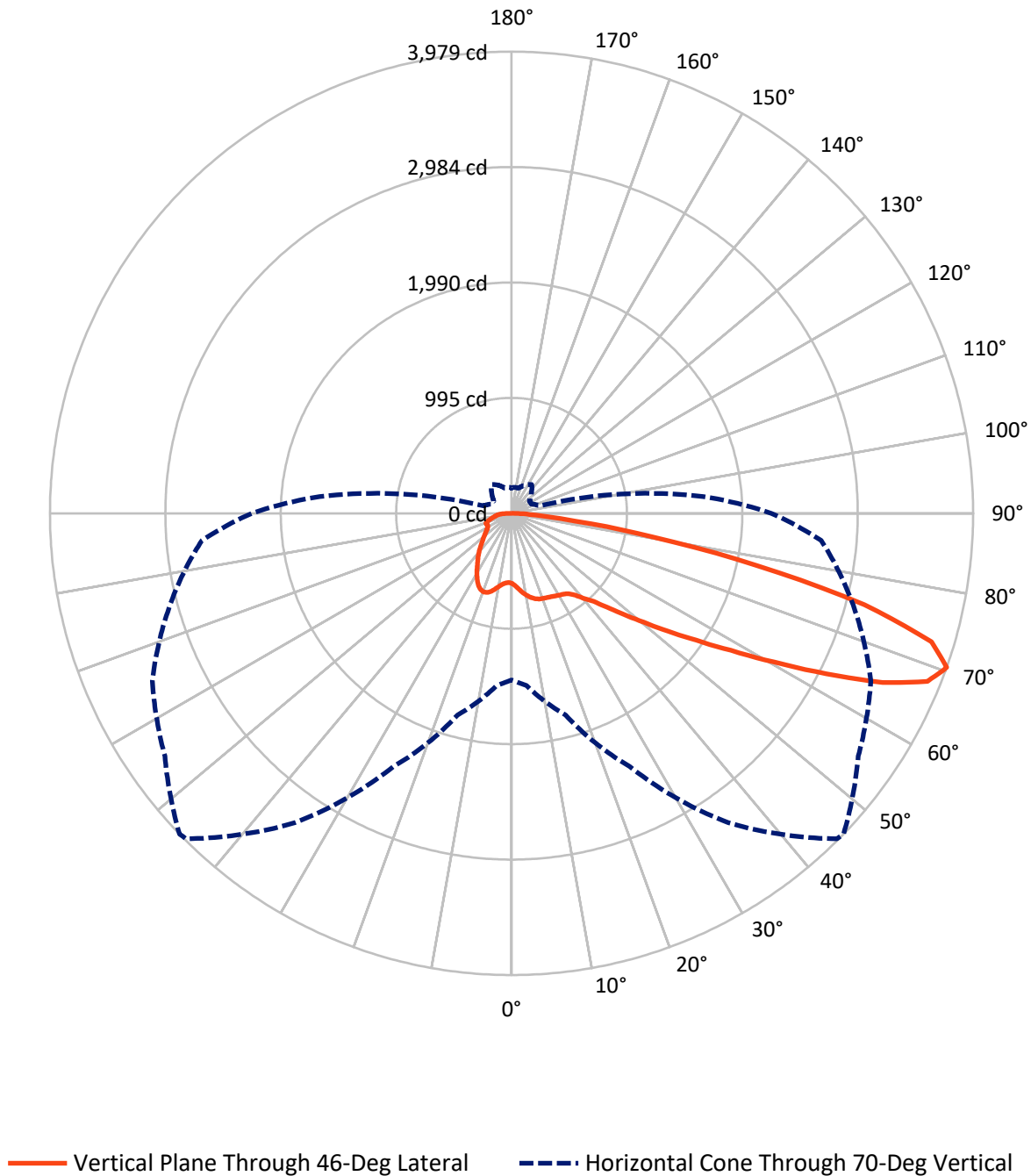
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P319175
CATALOG NUMBER: GAN-SA1D-827-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P319175

CATALOG NUMBER: GAN-SA1D-827-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1359.2	0.0	1359.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4570.9	0.0	4570.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	5930.0	0.0	5930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	1.0
10°-20°	205.2	3.5
20°-30°	342.1	5.8
30°-40°	485.5	8.2
40°-50°	714.2	12.0
50°-60°	1209.5	20.4
60°-70°	1716.8	29.0
70°-80°	1043.0	17.6
80°-90°	152.2	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°	5930.0	100.0
0°-180°	5930.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319175

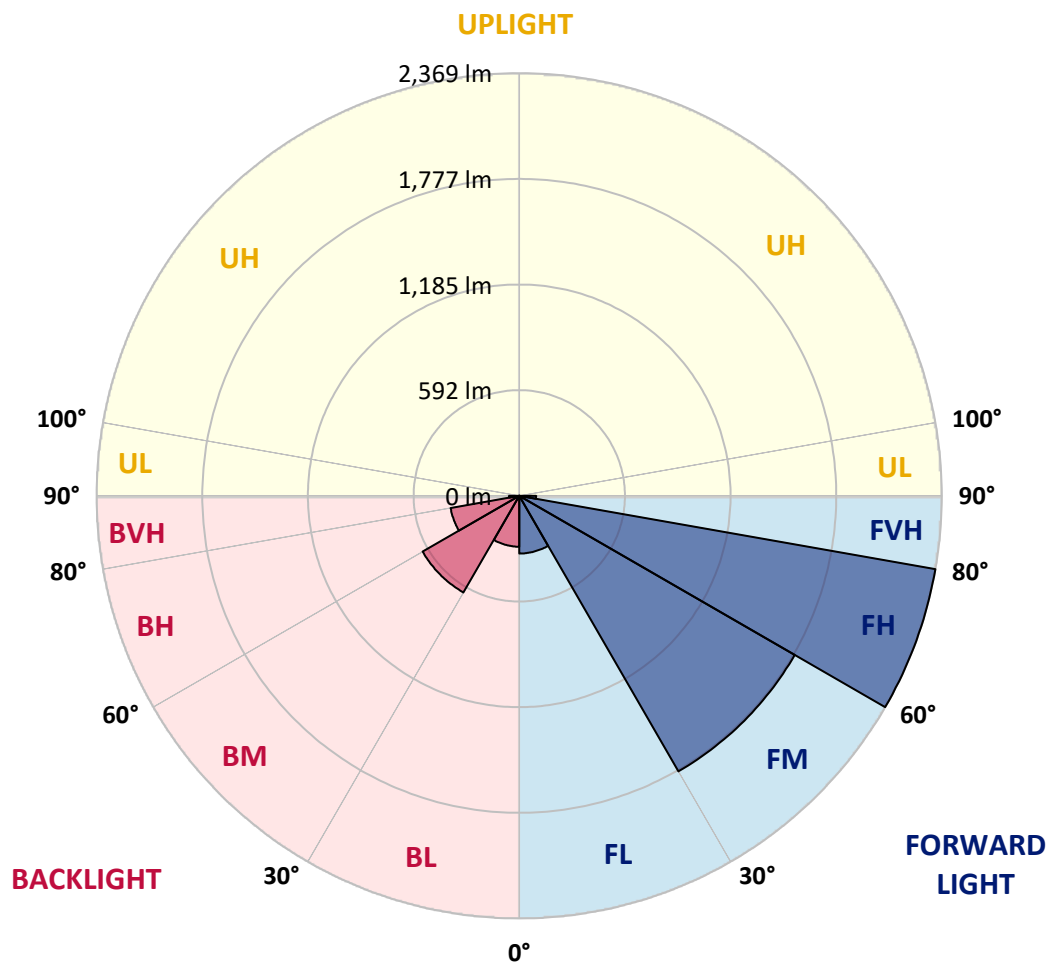
CATALOG NUMBER: GAN-SA1D-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.6	5.5			
FM	(30°-60°)	1783.5	30.1			
FH	(60°-80°)	2369.0	39.9			G2/5000
FVH	(80°-90°)	94.8	1.6			G1/100
BL	(0°-30°)	285.4	4.8	B1/500		
BM	(30°-60°)	625.7	10.6	B1/1000		
BH	(60°-80°)	390.7	6.6	B1/500		G1/500
BVH	(80°-90°)	57.4	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: P319175

CATALOG NUMBER: GAN-SA1D-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2
2.5°	634.4	634.8	635.6	633.6	627.9	626.3	625.7	619.8	615.9	610.2	605.4
5°	685.1	685.5	684.3	678.6	666.0	656.7	655.9	642.5	630.3	617.3	607.6
7.5°	738.1	738.7	734.8	724.1	706.4	690.2	689.2	670.9	652.5	632.8	618.2
10°	785.0	782.5	776.2	761.2	740.3	720.4	719.6	700.5	679.2	655.5	636.0
12.5°	816.2	814.2	806.1	787.8	764.9	746.6	745.0	727.3	706.6	680.7	657.3
15°	833.5	834.9	823.9	803.2	780.9	765.5	764.1	751.5	733.0	706.8	680.1
17.5°	835.7	836.9	826.4	805.9	787.6	777.1	776.4	768.1	754.7	729.6	701.6
20°	822.7	823.5	814.8	798.0	786.0	782.7	782.5	778.9	768.9	746.6	719.4
22.5°	803.8	804.5	798.2	786.0	781.9	787.0	788.4	787.0	779.9	759.0	733.4
25°	799.2	798.8	792.3	779.9	783.3	794.1	795.9	796.5	791.7	773.4	751.3
27.5°	821.7	820.3	807.9	788.0	790.2	803.2	805.7	811.6	808.5	792.5	771.6
30°	886.8	884.4	859.0	818.9	807.9	814.6	817.6	827.0	827.6	814.2	798.6
32.5°	996.8	993.8	948.3	876.5	837.7	826.2	829.0	843.0	850.5	840.2	823.3
35°	1135.9	1132.4	1072.7	974.5	887.7	848.3	850.3	861.5	876.5	861.9	839.6
37.5°	1280.8	1272.4	1215.0	1089.8	967.0	895.6	895.6	897.0	904.1	873.7	858.6
40°	1424.8	1416.5	1364.6	1225.3	1069.7	970.1	965.4	933.9	928.2	902.1	897.0
42.5°	1558.8	1556.3	1525.7	1378.6	1190.2	1043.3	1036.8	983.4	984.7	968.4	968.6
45°	1701.2	1701.2	1676.3	1533.2	1330.7	1161.0	1154.5	1076.0	1088.2	1080.7	1098.7
47.5°	1817.5	1821.2	1817.7	1694.3	1494.0	1310.6	1298.8	1204.2	1238.3	1264.1	1316.7
50°	1936.2	1941.9	1942.5	1871.1	1691.5	1488.4	1475.0	1374.5	1450.6	1524.5	1627.8
52.5°	2108.5	2121.3	2070.4	2047.5	1933.4	1699.4	1686.2	1593.5	1720.5	1824.2	2002.2
55°	2268.3	2257.1	2220.8	2235.0	2192.4	1939.7	1929.8	1848.4	2021.3	2156.0	2387.2
57.5°	2354.7	2353.9	2390.4	2451.3	2471.6	2236.0	2227.7	2148.5	2360.4	2461.7	2748.6
60°	2456.2	2457.6	2548.1	2686.3	2769.9	2604.9	2601.3	2541.2	2689.8	2747.0	3032.1
62.5°	2470.4	2496.0	2651.8	2889.7	3049.2	3036.0	3044.1	2894.9	2984.4	2974.7	3243.8
65°	2307.0	2340.7	2622.8	2951.1	3326.8	3507.4	3514.9	3250.7	3216.8	3169.3	3319.5
67.5°	1972.2	2022.1	2328.5	2817.4	3418.3	3855.9	3866.4	3526.5	3409.6	3235.3	3137.2
70°	1435.2	1490.6	1799.1	2406.3	3255.1	3967.3	3979.2	3648.4	3416.9	3047.5	2678.2
72.5°	867.0	910.4	1164.7	1771.5	2747.4	3764.3	3785.6	3493.8	3119.6	2581.4	1977.6
75°	380.7	409.1	563.2	1020.8	1966.9	3114.5	3141.1	2990.5	2534.7	1876.0	1168.9
77.5°	162.1	170.3	230.9	443.4	1111.9	2128.2	2164.8	2185.0	1719.7	1020.8	494.0
80°	101.1	104.3	130.7	200.7	520.3	1195.3	1234.7	1285.6	854.0	375.2	172.5
82.5°	61.5	65.1	86.9	121.4	270.9	541.8	560.7	596.6	331.4	162.1	89.3
85°	36.9	39.6	53.2	76.7	154.2	213.1	212.9	235.4	156.1	104.3	47.1
87.5°	17.7	19.7	28.4	39.8	77.7	80.0	74.9	84.8	94.8	68.4	23.7
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: P319175

CATALOG NUMBER: GAN-SA1D-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2
2.5°	603.7	602.9	600.3	598.3	597.9	596.6	595.6	596.2	597.0	597.3	597.3
5°	603.5	601.3	597.9	596.4	598.3	600.7	603.7	607.8	610.2	612.1	613.3
7.5°	613.3	609.0	605.2	604.4	608.0	614.5	621.4	629.9	635.8	639.9	640.7
10°	629.5	624.2	620.4	621.2	627.7	637.0	646.8	657.7	666.7	672.1	672.5
12.5°	648.2	643.1	639.5	642.9	653.7	665.0	675.2	684.7	692.8	698.3	698.3
15°	669.7	666.0	661.8	669.7	684.3	694.5	698.7	703.4	707.9	711.9	711.1
17.5°	690.4	687.0	684.7	694.1	709.3	713.9	711.1	707.7	707.7	709.9	710.3
20°	708.3	705.2	706.6	715.8	723.7	718.8	708.3	697.3	692.8	694.1	695.3
22.5°	723.9	722.5	726.7	731.0	725.3	708.3	688.8	674.0	668.5	668.1	668.5
25°	742.1	741.9	747.2	739.5	714.3	682.9	656.7	642.3	639.3	641.7	645.8
27.5°	764.9	767.1	769.7	741.5	692.0	644.5	618.0	608.0	611.1	616.9	620.8
30°	793.9	800.0	794.3	736.5	660.0	600.7	575.3	572.5	580.8	589.1	593.2
32.5°	822.1	831.6	817.8	723.3	618.6	554.2	534.5	533.7	543.9	552.0	557.7
35°	844.8	863.7	835.5	697.1	570.7	511.4	497.0	491.5	495.2	504.7	511.2
37.5°	874.5	905.9	847.7	657.1	518.7	476.1	459.3	446.7	443.4	447.3	450.5
40°	928.7	970.3	853.4	601.3	468.0	440.8	423.7	405.3	392.5	383.1	383.4
42.5°	1017.1	1054.1	849.7	533.5	421.1	406.3	387.0	365.7	345.0	323.9	322.3
45°	1160.8	1178.7	838.7	461.7	379.9	370.2	352.1	330.8	303.2	279.2	277.0
47.5°	1390.7	1351.2	821.7	399.0	343.6	339.5	322.9	298.3	269.1	249.8	248.2
50°	1704.3	1600.2	813.4	349.1	311.5	312.7	299.1	273.2	245.6	231.4	229.7
52.5°	2079.3	1890.2	829.4	310.5	285.7	290.0	279.9	255.5	232.4	221.2	219.6
55°	2468.4	2190.5	846.7	282.5	261.4	269.7	266.3	246.2	225.3	214.9	213.5
57.5°	2801.4	2414.8	812.2	259.8	239.7	252.7	255.7	240.3	221.6	212.3	210.7
60°	3011.0	2505.1	721.7	238.5	222.4	239.1	249.6	238.7	223.0	222.2	221.0
62.5°	3110.5	2497.2	585.9	221.6	211.7	233.2	254.1	247.8	239.3	246.6	247.2
65°	3065.8	2377.8	436.3	210.4	204.0	235.4	267.5	265.0	243.9	251.2	252.3
67.5°	2772.0	2093.1	323.1	200.7	195.4	241.7	291.8	270.7	234.8	240.1	236.8
70°	2240.5	1659.4	249.2	189.7	186.7	240.9	302.8	267.3	224.9	226.1	217.3
72.5°	1545.0	1131.6	202.7	179.6	174.1	219.6	295.1	258.7	216.5	207.2	195.6
75°	840.2	607.4	172.3	169.0	152.0	192.8	280.9	252.7	209.0	196.6	190.2
77.5°	330.6	252.1	149.6	154.6	132.9	170.3	265.0	241.1	198.7	182.4	179.2
80°	135.0	128.7	124.0	133.7	114.3	149.0	246.0	227.5	186.3	169.3	162.8
82.5°	76.5	80.0	96.4	105.5	92.7	137.2	236.8	216.5	171.5	151.6	143.9
85°	39.2	46.9	67.2	75.7	68.2	116.7	218.2	189.5	137.6	116.1	116.7
87.5°	18.9	26.2	42.4	47.5	44.2	84.4	163.0	137.4	107.2	84.8	82.2
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)