

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: P319215

Luminaire Tested: **GAN-SA1D-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319215
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-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6410 lumens
Efficiency: N/A
Efficacy: 95.7 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

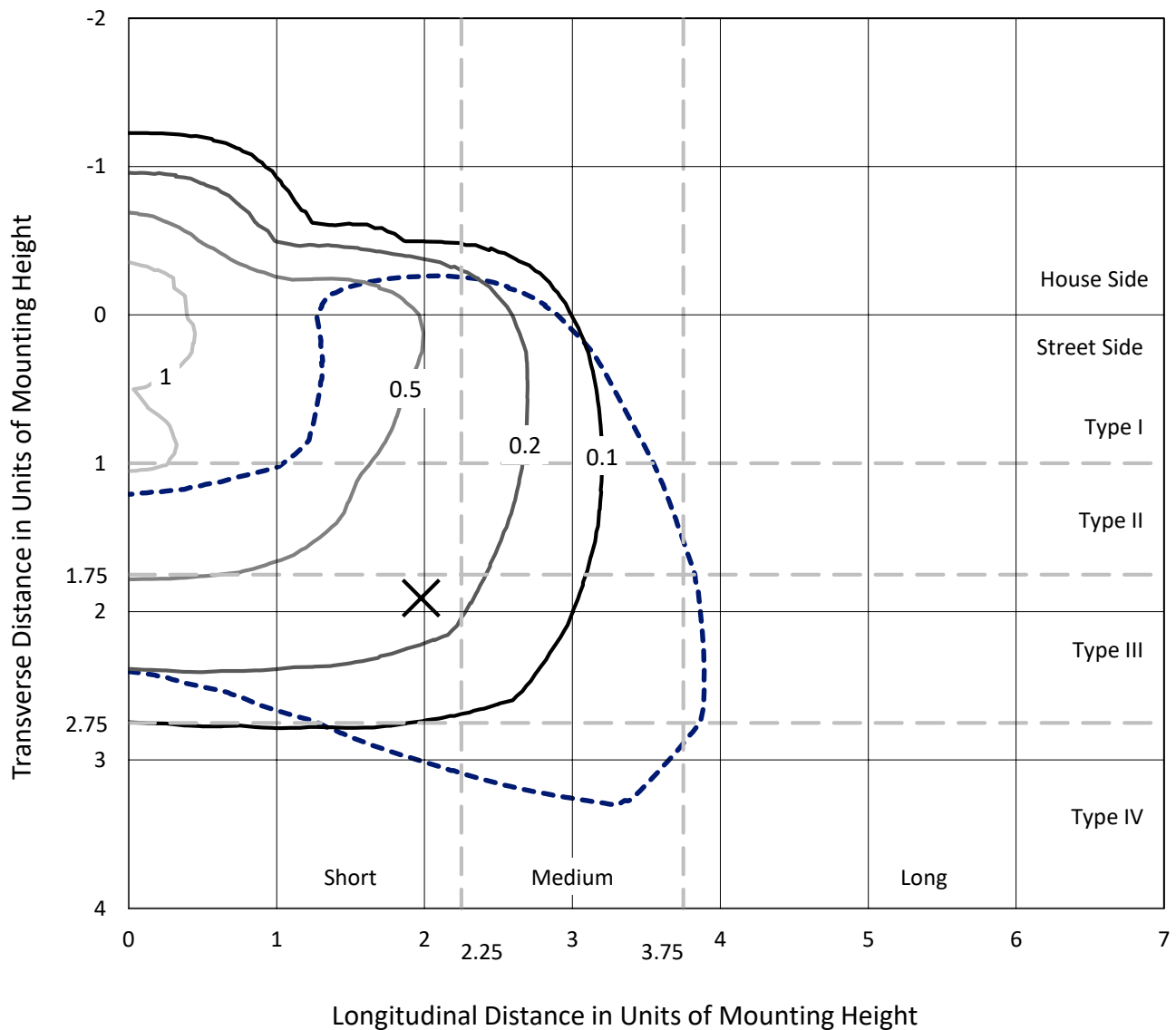
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319215
 CATALOG NUMBER: GAN-SA1D-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

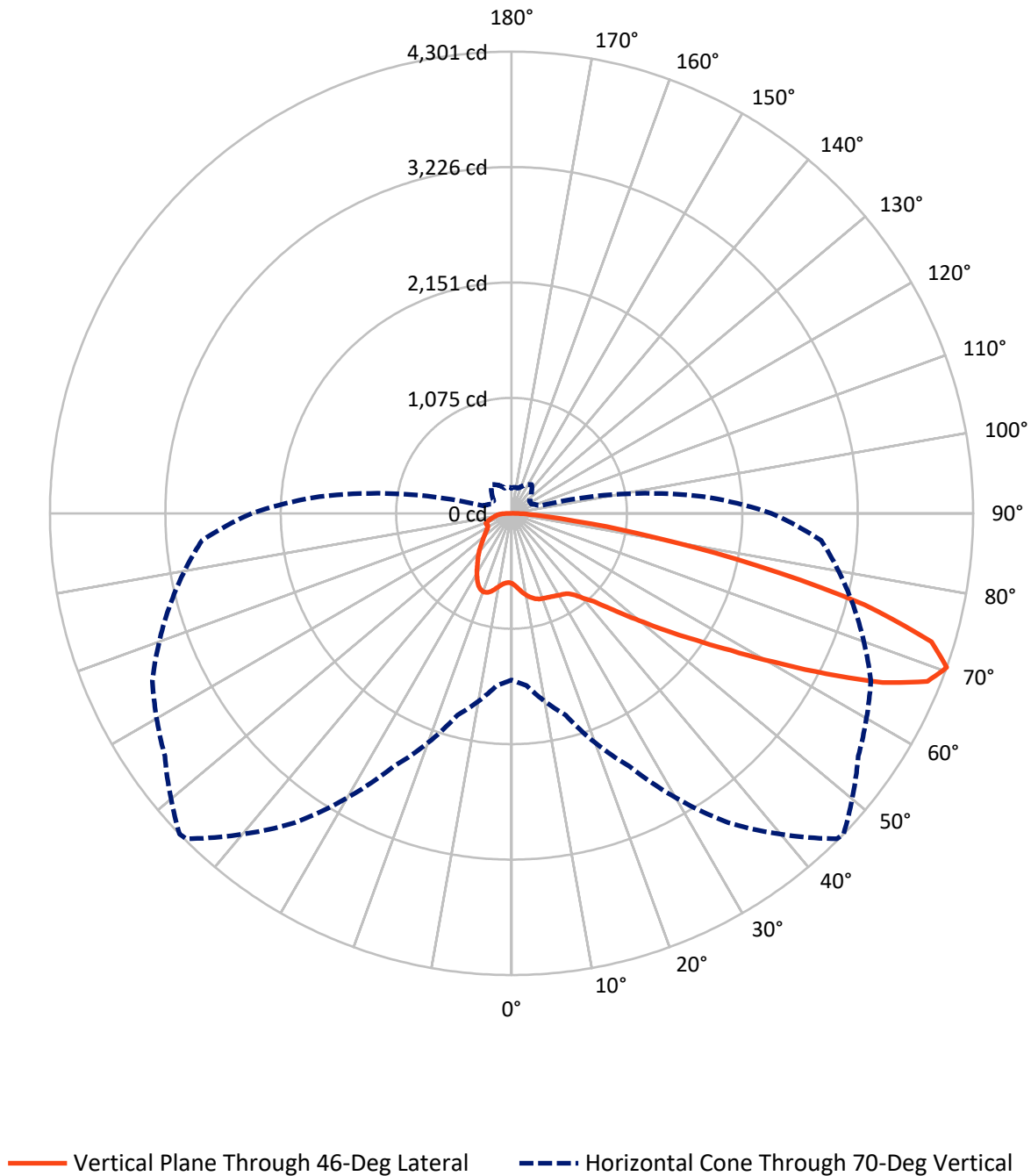
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P319215
CATALOG NUMBER: GAN-SA1D-830-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P319215

CATALOG NUMBER: GAN-SA1D-830-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.2	0.0	1469.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4940.8	0.0	4940.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	6410.0	0.0	6410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.0
10°-20°	221.8	3.5
20°-30°	369.8	5.8
30°-40°	524.8	8.2
40°-50°	772.0	12.0
50°-60°	1307.3	20.4
60°-70°	1855.7	29.0
70°-80°	1127.4	17.6
80°-90°	164.5	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°	6410.0	100.0
0°-180°	6410.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319215

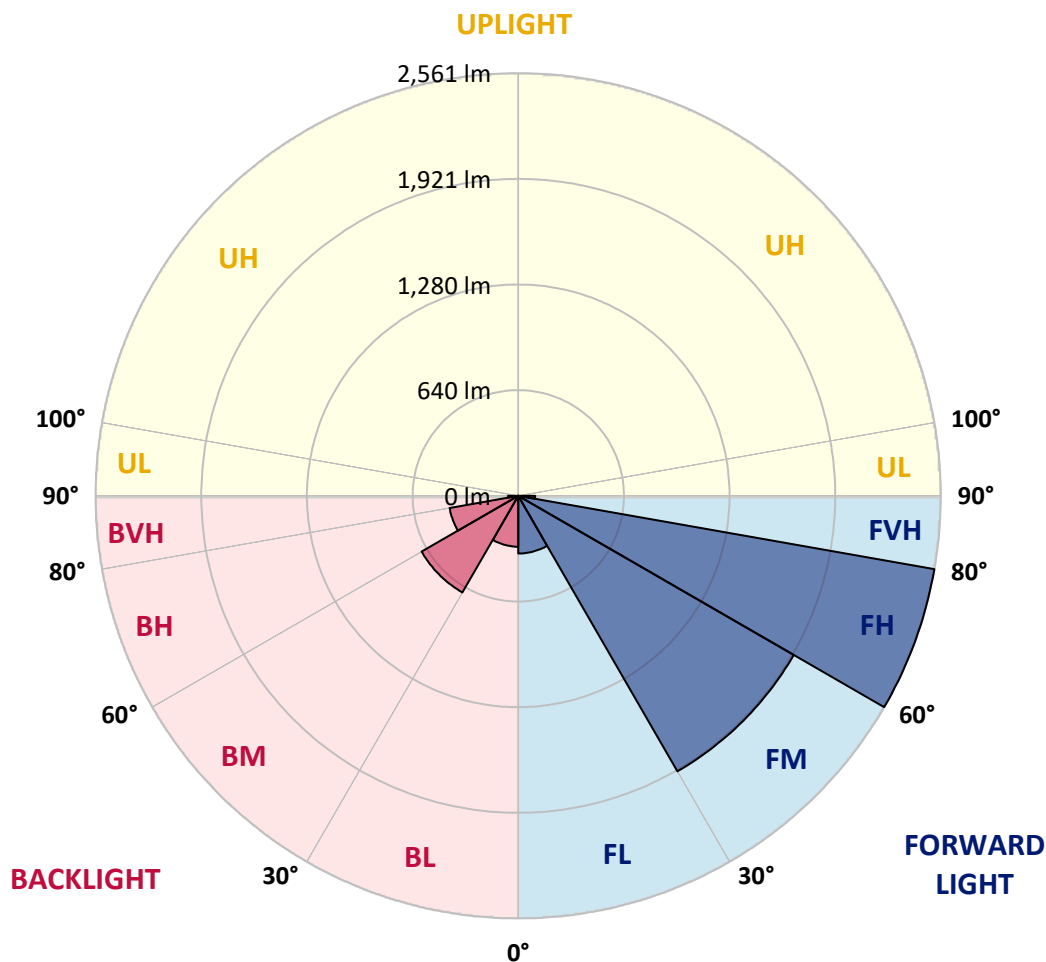
CATALOG NUMBER: GAN-SA1D-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.8	5.5			
FM	(30°-60°)	1927.8	30.1			
FH	(60°-80°)	2560.8	39.9			G2/5000
FVH	(80°-90°)	102.5	1.6			G2/225
BL	(0°-30°)	308.5	4.8	B1/500		
BM	(30°-60°)	676.3	10.6	B1/1000		
BH	(60°-80°)	422.4	6.6	B1/500		G1/500
BVH	(80°-90°)	62.0	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: P319215

CATALOG NUMBER: GAN-SA1D-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1
2.5°	685.7	686.2	687.1	684.9	678.7	677.0	676.3	669.9	665.8	659.6	654.4
5°	740.6	741.0	739.7	733.6	720.0	709.9	709.0	694.5	681.4	667.3	656.8
7.5°	797.8	798.5	794.3	782.7	763.6	746.1	745.0	725.2	705.3	684.0	668.2
10°	848.5	845.9	839.1	822.8	800.2	778.8	777.9	757.3	734.2	708.6	687.5
12.5°	882.3	880.1	871.3	851.6	826.8	807.0	805.3	786.2	763.8	735.8	710.5
15°	900.9	902.5	890.6	868.3	844.1	827.4	825.9	812.3	792.4	764.1	735.1
17.5°	903.4	904.7	893.3	871.1	851.4	840.0	839.3	830.3	815.8	788.6	758.3
20°	889.3	890.2	880.8	862.5	849.6	846.1	845.9	841.9	831.2	807.0	777.7
22.5°	868.9	869.6	862.8	849.6	845.2	850.7	852.2	850.7	843.0	820.4	792.8
25°	863.9	863.4	856.4	843.0	846.8	858.4	860.4	861.0	855.7	836.0	812.1
27.5°	888.2	886.7	873.3	851.8	854.2	868.3	870.9	877.2	874.0	856.6	834.0
30°	958.6	956.0	928.6	885.1	873.3	880.5	883.8	893.9	894.6	880.1	863.2
32.5°	1077.5	1074.2	1025.1	947.4	905.5	893.0	896.1	911.2	919.4	908.2	890.0
35°	1227.8	1224.1	1159.6	1053.4	959.5	917.0	919.1	931.2	947.4	931.6	907.5
37.5°	1384.4	1375.4	1313.3	1178.0	1045.3	968.1	968.1	969.6	977.3	944.4	928.1
40°	1540.2	1531.2	1475.0	1324.5	1156.3	1048.6	1043.5	1009.5	1003.4	975.1	969.6
42.5°	1685.0	1682.3	1649.2	1490.2	1286.6	1127.8	1120.7	1063.0	1064.4	1046.8	1047.0
45°	1838.9	1838.9	1812.0	1657.3	1438.4	1255.0	1248.0	1163.1	1176.2	1168.1	1187.6
47.5°	1964.6	1968.6	1964.9	1831.5	1615.0	1416.7	1403.9	1301.7	1338.6	1366.4	1423.2
50°	2093.0	2099.1	2099.8	2022.6	1828.4	1608.8	1594.4	1485.8	1568.0	1647.9	1759.5
52.5°	2279.2	2293.0	2238.0	2213.2	2089.9	1837.0	1822.7	1722.5	1859.8	1971.9	2164.3
55°	2451.9	2439.8	2400.5	2415.9	2369.8	2096.7	2086.0	1998.0	2184.9	2330.5	2580.4
57.5°	2545.3	2544.4	2583.9	2649.7	2671.7	2417.0	2408.0	2322.4	2551.4	2660.9	2971.1
60°	2655.0	2656.5	2754.4	2903.8	2994.1	2815.8	2811.8	2746.9	2907.5	2969.3	3277.6
62.5°	2670.3	2698.0	2866.5	3123.6	3296.0	3281.7	3290.5	3129.3	3226.0	3215.5	3506.4
65°	2493.8	2530.2	2835.1	3190.0	3596.1	3791.3	3799.4	3513.8	3477.2	3425.8	3588.2
67.5°	2131.8	2185.8	2517.0	3045.5	3695.0	4168.0	4179.4	3811.9	3685.6	3497.1	3391.2
70°	1551.4	1611.2	1944.7	2601.0	3518.6	4288.4	4301.3	3943.8	3693.5	3294.2	2895.0
72.5°	937.1	984.1	1258.9	1914.8	2969.8	4069.0	4092.1	3776.6	3372.1	2790.3	2137.7
75°	411.5	442.2	608.7	1103.4	2126.1	3366.6	3395.4	3232.6	2739.9	2027.8	1263.6
77.5°	175.3	184.0	249.6	479.3	1201.9	2300.5	2340.0	2361.9	1858.9	1103.4	533.9
80°	109.2	112.8	141.3	217.0	562.5	1292.1	1334.6	1389.7	923.1	405.6	186.5
82.5°	66.5	70.4	93.9	131.2	292.9	585.7	606.1	644.9	358.2	175.3	96.5
85°	39.9	42.8	57.5	82.9	166.7	230.3	230.1	254.5	168.7	112.8	50.9
87.5°	19.1	21.3	30.7	43.0	84.0	86.4	80.9	91.7	102.4	73.9	25.7
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: P319215

CATALOG NUMBER: GAN-SA1D-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1	653.1
2.5°	652.6	651.7	648.9	646.7	646.3	644.9	643.8	644.5	645.4	645.6	645.6
5°	652.4	650.0	646.3	644.7	646.7	649.3	652.6	657.0	659.6	661.6	662.9
7.5°	662.9	658.3	654.2	653.3	657.2	664.2	671.7	680.9	687.3	691.7	692.5
10°	680.5	674.8	670.6	671.5	678.5	688.6	699.1	711.0	720.6	726.5	727.0
12.5°	700.7	695.2	691.2	695.0	706.6	718.9	729.8	740.1	748.9	754.8	754.8
15°	723.9	720.0	715.4	723.9	739.7	750.7	755.3	760.3	765.1	769.5	768.7
17.5°	746.3	742.6	740.1	750.2	766.7	771.7	768.7	764.9	764.9	767.3	767.8
20°	765.6	762.3	763.8	773.7	782.3	777.0	765.6	753.7	748.9	750.2	751.5
22.5°	782.5	780.9	785.6	790.2	784.0	765.6	744.5	728.5	722.6	722.2	722.6
25°	802.2	802.0	807.7	799.4	772.2	738.2	709.9	694.3	691.0	693.6	698.0
27.5°	826.8	829.2	832.1	801.6	748.0	696.7	668.0	657.2	660.5	666.9	671.0
30°	858.2	864.7	858.6	796.1	713.4	649.3	621.9	618.8	627.8	636.8	641.2
32.5°	888.7	899.0	884.0	781.8	668.6	599.1	577.8	576.9	587.9	596.7	602.8
35°	913.2	933.6	903.1	753.5	616.9	552.8	537.2	531.3	535.3	545.6	552.6
37.5°	945.2	979.3	916.3	710.3	560.7	514.6	496.4	482.8	479.3	483.5	487.0
40°	1003.8	1048.8	922.4	650.0	505.9	476.5	458.0	438.1	424.3	414.2	414.4
42.5°	1099.5	1139.4	918.5	576.7	455.2	439.2	418.3	395.3	372.9	350.1	348.4
45°	1254.8	1274.1	906.6	499.1	410.7	400.1	380.6	357.6	327.7	301.8	299.4
47.5°	1503.3	1460.5	888.2	431.3	371.4	367.0	349.0	322.5	290.9	270.0	268.3
50°	1842.2	1729.7	879.2	377.3	336.7	338.0	323.3	295.3	265.4	250.1	248.3
52.5°	2247.6	2043.2	896.6	335.6	308.9	313.5	302.5	276.2	251.2	239.1	237.4
55°	2668.2	2367.8	915.2	305.4	282.5	291.5	287.8	266.1	243.5	232.3	230.8
57.5°	3028.1	2610.2	877.9	280.8	259.1	273.1	276.4	259.7	239.5	229.5	227.7
60°	3254.7	2707.9	780.1	257.8	240.4	258.4	269.8	258.0	241.1	240.2	238.9
62.5°	3362.2	2699.3	633.3	239.5	228.8	252.1	274.6	267.8	258.6	266.5	267.2
65°	3314.0	2570.3	471.6	227.5	220.5	254.5	289.1	286.5	263.7	271.6	272.7
67.5°	2996.3	2262.5	349.2	217.0	211.2	261.3	315.4	292.6	253.8	259.5	256.0
70°	2421.8	1793.8	269.4	205.1	201.8	260.4	327.3	288.9	243.1	244.4	234.9
72.5°	1670.0	1223.2	219.1	194.1	188.2	237.4	319.0	279.7	234.1	224.0	211.5
75°	908.2	656.6	186.2	182.7	164.3	208.4	303.6	273.1	225.9	212.6	205.5
77.5°	357.3	272.5	161.7	167.2	143.7	184.0	286.5	260.6	214.8	197.2	193.7
80°	145.9	139.1	134.0	144.6	123.5	161.0	265.9	245.9	201.4	183.0	175.9
82.5°	82.7	86.4	104.2	114.1	100.3	148.3	256.0	234.1	185.4	163.9	155.5
85°	42.3	50.7	72.6	81.8	73.7	126.1	235.8	204.9	148.7	125.5	126.1
87.5°	20.4	28.3	45.8	51.3	47.8	91.3	176.2	148.5	115.8	91.7	88.8
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)