

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: P318427

Luminaire Tested: **GAN-SA3A-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14231 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

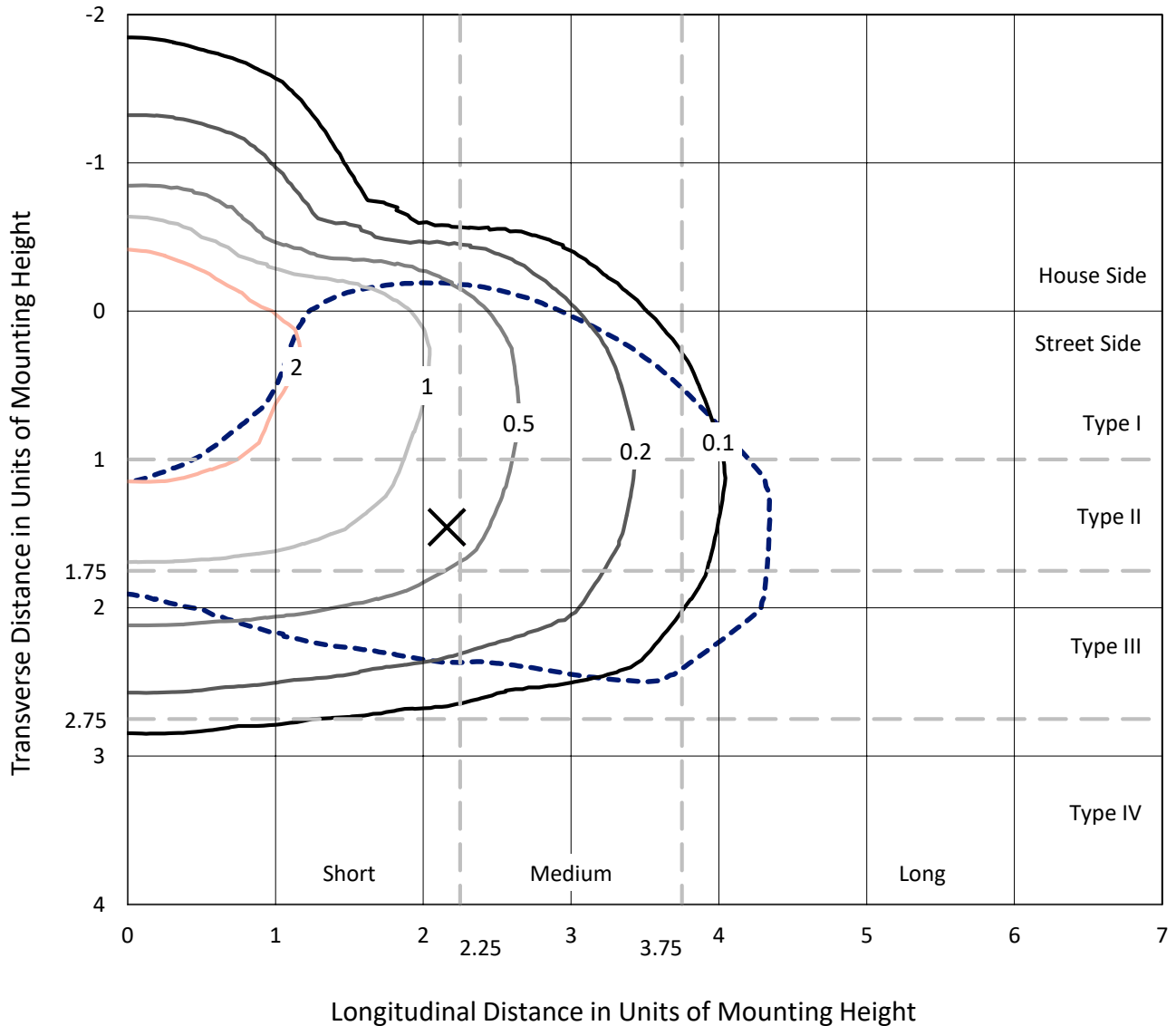
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

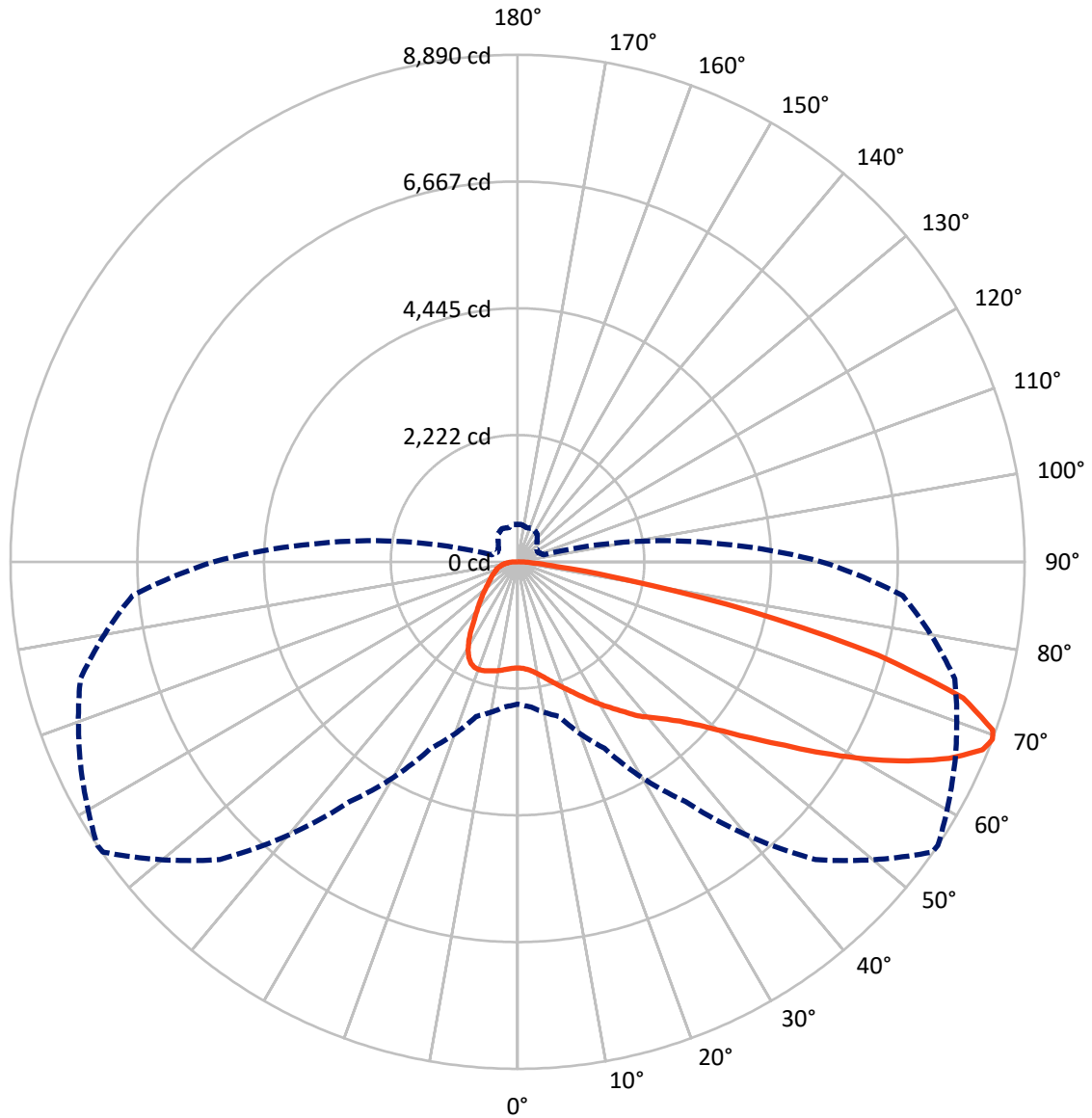
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3169.2	0.0	3169.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	11061.8	0.0	11061.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	14231.0	0.0	14231.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	1.3
10°-20°	587.6	4.1
20°-30°	1025.7	7.2
30°-40°	1473.4	10.4
40°-50°	2039.1	14.3
50°-60°	2987.5	21.0
60°-70°	3642.4	25.6
70°-80°	2013.7	14.2
80°-90°	278.9	2.0
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°	14231.0	100.0
0°-180°	14231.0	100.0



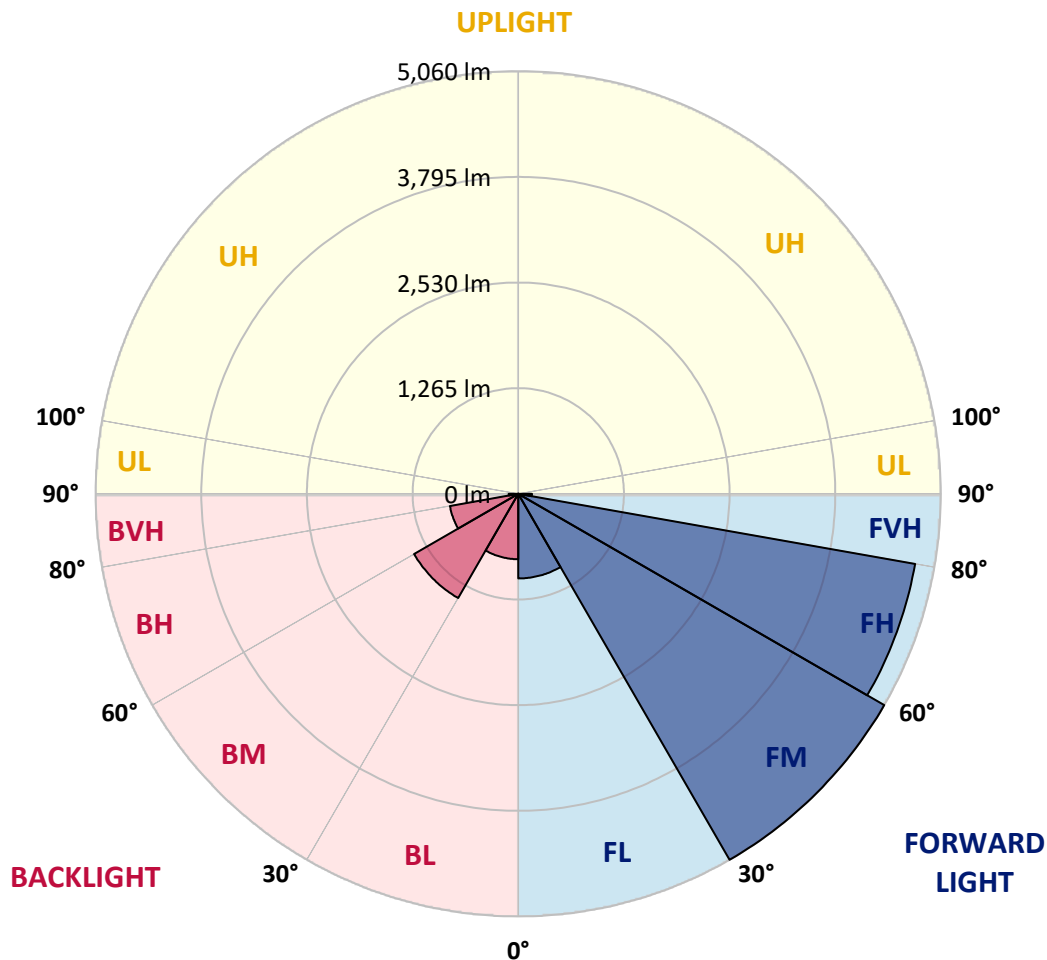
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.8	7.1			
FM (30°-60°)	5059.7	35.6			
FH (60°-80°)	4825.0	33.9			G2/5000
FVH (80°-90°)	164.3	1.2			G2/225
BL (0°-30°)	783.2	5.5	B2/1000		
BM (30°-60°)	1440.3	10.1	B2/2500		
BH (60°-80°)	831.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	114.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5
2.5°	1872.3	1874.2	1872.7	1876.7	1872.3	1875.2	1872.7	1872.7	1871.3	1866.9	1862.0
5°	1901.7	1905.6	1903.1	1907.1	1901.7	1902.7	1898.2	1898.2	1893.8	1884.5	1874.7
7.5°	1947.8	1952.2	1950.2	1954.1	1946.8	1946.8	1940.9	1940.4	1931.6	1916.4	1905.1
10°	2002.7	2008.5	2006.6	2012.5	2006.6	2008.5	2002.7	2002.7	1990.9	1969.3	1955.1
12.5°	2082.6	2089.9	2084.5	2084.0	2081.6	2085.5	2080.6	2079.6	2068.8	2039.4	2019.8
15°	2189.4	2197.3	2186.0	2185.0	2171.3	2169.8	2169.8	2168.4	2161.5	2126.2	2093.8
17.5°	2312.5	2314.9	2305.1	2289.5	2271.8	2260.5	2259.1	2263.0	2263.0	2221.8	2170.3
20°	2433.1	2437.5	2429.7	2412.0	2389.5	2372.8	2361.0	2368.9	2368.4	2319.4	2246.3
22.5°	2564.5	2574.8	2563.0	2540.5	2514.0	2495.4	2474.8	2481.6	2482.1	2421.8	2320.8
25°	2734.6	2725.3	2717.9	2686.1	2648.3	2629.2	2610.1	2616.9	2615.0	2532.1	2397.8
27.5°	2885.1	2887.1	2877.3	2843.4	2799.8	2757.6	2756.7	2761.1	2753.7	2646.8	2470.4
30°	3060.1	3061.1	3047.4	3017.0	2969.4	2915.0	2902.3	2909.6	2893.9	2755.7	2546.8
32.5°	3234.2	3239.1	3223.9	3187.1	3148.9	3082.7	3057.2	3062.1	3022.9	2867.0	2625.8
35°	3386.6	3393.5	3388.6	3364.1	3322.4	3265.5	3235.1	3232.2	3183.7	3003.3	2730.2
37.5°	3542.0	3548.4	3543.0	3522.4	3505.8	3445.5	3429.3	3429.3	3345.0	3142.5	2863.0
40°	3701.9	3711.7	3705.3	3676.9	3662.6	3635.2	3596.5	3587.1	3496.0	3309.7	3079.7
42.5°	3850.4	3863.1	3888.6	3872.0	3843.0	3847.0	3769.0	3764.1	3697.4	3556.7	3351.8
45°	4061.2	4079.8	4123.0	4110.2	4104.4	4082.8	3990.1	3985.7	3960.2	3889.1	3689.6
47.5°	4291.1	4316.6	4394.6	4397.0	4460.3	4419.6	4293.6	4278.4	4284.3	4287.2	4101.9
50°	4502.9	4530.9	4658.8	4719.1	4868.2	4877.0	4675.5	4661.8	4684.8	4752.5	4582.3
52.5°	4672.1	4707.4	4867.2	5053.5	5308.9	5381.4	5145.6	5135.3	5152.5	5269.2	5125.5
55°	4796.1	4834.3	5008.4	5347.6	5755.5	5883.5	5686.9	5677.1	5687.9	5836.4	5716.3
57.5°	4825.0	4834.3	5086.8	5545.7	6132.5	6439.9	6349.2	6329.6	6276.6	6406.1	6368.3
60°	4689.2	4726.5	5022.1	5615.3	6424.2	6988.5	7041.4	7016.9	6868.4	6974.3	6943.9
62.5°	4413.7	4480.4	4780.4	5509.4	6538.4	7436.6	7720.4	7691.0	7435.1	7503.7	7357.6
65°	3963.7	3992.1	4307.3	5144.2	6393.3	7723.4	8325.9	8311.2	7989.1	7881.7	7434.1
67.5°	3158.7	3212.1	3479.8	4380.9	5799.6	7689.5	8794.1	8792.6	8350.9	8021.9	7163.0
69°	2495.4	2550.8	2805.7	3608.7	5131.9	7380.2	8872.5	8889.7	8452.8	7936.6	6775.7
70°	1989.4	2053.6	2228.7	3039.5	4539.2	6972.3	8807.3	8838.2	8433.2	7795.9	6418.3
72.5°	846.7	898.6	1023.1	1566.8	2766.5	5206.4	8052.8	8169.5	7978.8	7135.1	5304.5
75°	369.6	385.8	442.2	638.8	1228.1	2833.6	6308.5	6524.2	6822.3	6031.0	3951.4
77.5°	270.6	277.5	308.4	375.0	551.0	1070.2	4056.8	4182.3	4920.1	4388.7	2423.8
80°	209.3	214.2	238.3	275.5	359.8	432.9	1850.2	1958.0	2766.5	2254.2	1009.4
82.5°	166.7	170.1	186.8	203.0	248.6	262.3	614.3	681.4	1021.2	622.6	267.2
85°	154.9	158.8	164.7	148.1	159.3	153.9	265.7	278.0	308.4	244.6	111.8
87.5°	70.1	82.9	163.3	115.2	84.8	67.7	108.8	113.7	128.0	128.4	49.5
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°	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5
2.5°	1864.9	1863.4	1865.9	1860.0	1867.4	1866.9	1864.4	1865.4	1870.3	1869.8	1870.3
5°	1876.2	1875.2	1878.1	1873.7	1882.6	1885.5	1886.0	1890.4	1895.8	1897.3	1897.3
7.5°	1904.6	1904.6	1906.1	1900.2	1906.1	1905.6	1903.1	1907.6	1912.9	1913.4	1912.9
10°	1953.6	1954.1	1951.7	1936.5	1931.6	1918.3	1906.1	1906.6	1913.4	1918.8	1920.3
12.5°	2015.4	2013.4	2002.7	1974.7	1954.1	1927.2	1914.4	1913.9	1920.8	1925.2	1926.7
15°	2086.0	2080.6	2052.7	2007.1	1970.8	1944.3	1923.7	1918.8	1914.9	1910.0	1910.5
17.5°	2152.7	2140.4	2093.8	2030.6	1992.4	1957.1	1917.4	1885.5	1863.4	1850.7	1846.8
20°	2220.3	2196.3	2129.1	2052.7	2004.1	1939.9	1863.4	1798.7	1758.5	1739.9	1736.5
22.5°	2282.1	2243.4	2162.0	2075.7	1994.8	1882.1	1761.9	1667.8	1611.9	1586.9	1588.9
25°	2342.4	2288.5	2196.3	2091.9	1947.8	1780.1	1620.8	1505.1	1440.3	1412.4	1411.4
27.5°	2395.3	2334.1	2233.6	2078.6	1860.0	1635.0	1453.6	1340.8	1286.9	1262.9	1259.0
30°	2456.1	2391.4	2283.1	2028.2	1731.6	1467.3	1290.3	1210.9	1172.7	1148.6	1144.2
32.5°	2530.2	2469.4	2323.8	1936.5	1567.3	1292.3	1162.9	1107.5	1072.7	1045.7	1040.8
35°	2638.0	2572.3	2334.1	1805.1	1386.9	1154.0	1069.2	1012.4	965.3	930.5	927.1
37.5°	2773.3	2701.3	2310.5	1635.0	1211.9	1064.3	991.3	921.2	859.9	810.9	803.0
40°	2968.4	2859.6	2245.3	1438.9	1083.0	995.2	915.3	835.4	759.4	702.0	690.8
42.5°	3202.8	3045.4	2145.3	1243.8	988.3	925.1	839.8	740.8	668.2	627.5	621.6
45°	3500.9	3238.6	2006.6	1073.2	895.2	855.0	758.4	667.2	622.1	592.2	587.3
47.5°	3841.1	3455.3	1861.0	934.4	816.3	789.3	693.2	634.4	598.6	575.1	570.6
50°	4259.3	3699.9	1706.6	820.7	736.8	710.4	662.3	616.2	587.8	569.7	565.3
52.5°	4730.9	3975.9	1595.3	731.0	671.1	652.0	646.1	606.4	583.4	569.7	565.3
55°	5238.8	4256.8	1475.2	655.5	614.3	619.7	635.4	607.4	591.7	575.1	568.7
57.5°	5747.2	4547.0	1341.3	591.7	569.2	595.7	628.0	609.4	596.1	580.0	574.1
60°	6149.2	4730.9	1133.9	538.3	533.4	569.2	610.4	594.7	577.5	578.0	577.0
62.5°	6336.9	4721.1	905.0	490.7	497.6	533.4	581.9	571.6	557.4	576.5	578.0
65°	6231.5	4485.8	704.5	447.6	459.4	496.1	552.5	560.4	565.3	602.0	606.9
67.5°	5789.3	4027.9	545.6	409.8	424.6	470.6	555.5	610.4	616.7	655.5	655.0
69°	5331.9	3598.4	474.1	390.2	407.4	477.0	593.7	642.2	618.2	659.4	653.5
70°	4948.6	3258.7	435.8	377.0	399.6	488.3	619.2	641.7	610.8	646.1	636.3
72.5°	3811.2	2344.4	369.6	352.5	373.1	467.2	626.5	627.5	593.7	600.6	583.9
75°	2614.0	1481.5	322.6	319.2	332.9	421.1	603.0	599.6	549.1	539.3	525.5
77.5°	1441.3	752.5	274.0	287.3	296.6	373.1	548.1	543.2	501.5	480.9	476.0
80°	555.9	329.4	231.4	255.4	261.3	323.1	480.4	476.0	441.2	414.7	407.4
82.5°	209.8	172.6	191.2	221.1	219.1	266.7	406.9	404.5	370.6	331.9	320.1
85°	97.1	103.4	151.5	182.4	168.2	197.6	325.5	329.9	288.8	242.7	242.7
87.5°	41.2	57.8	107.4	137.8	113.2	133.3	238.8	228.0	209.3	145.1	136.3
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)