

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: P382931

Luminaire Tested: **GAN-SA2D-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14876.8 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

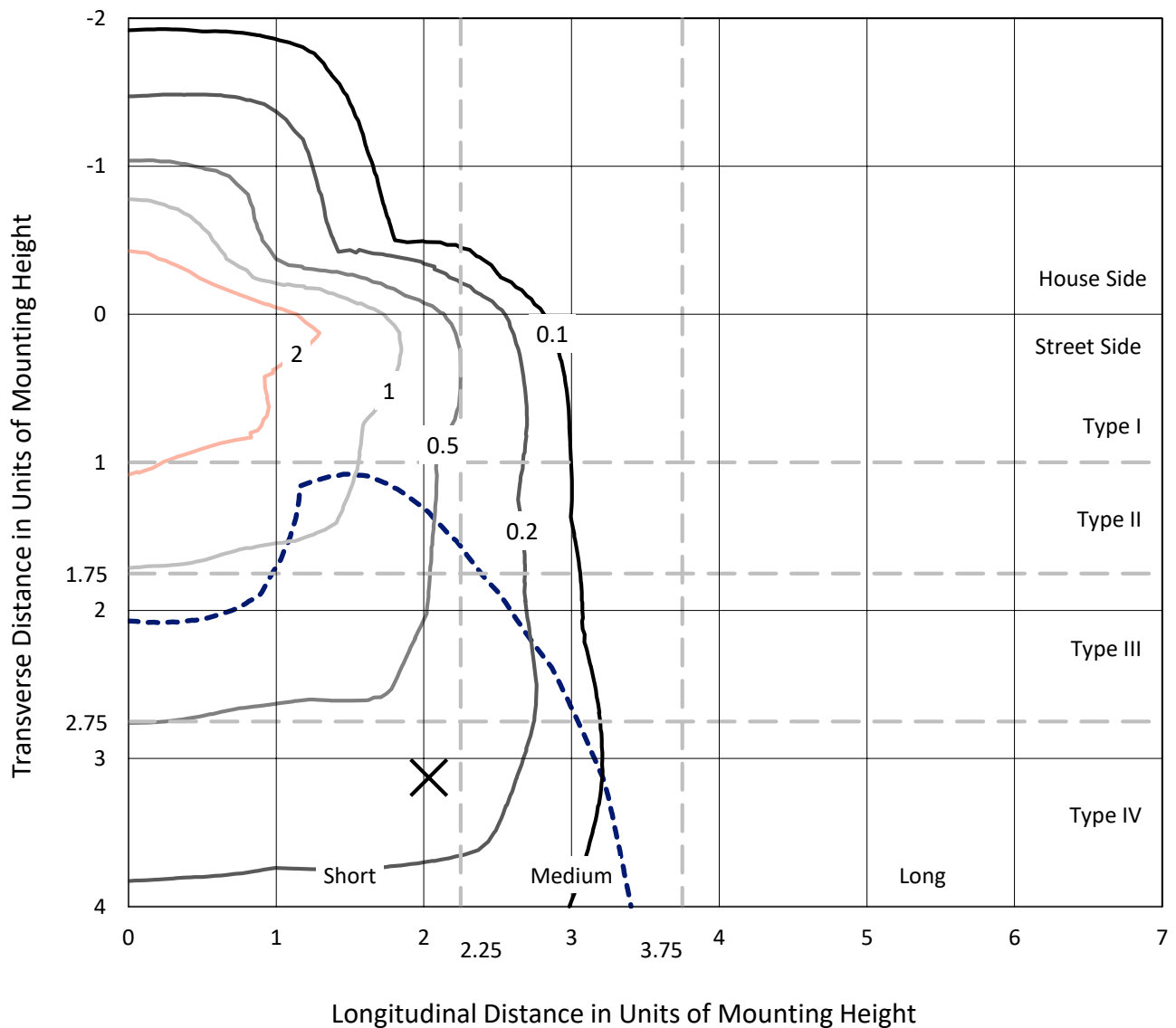
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

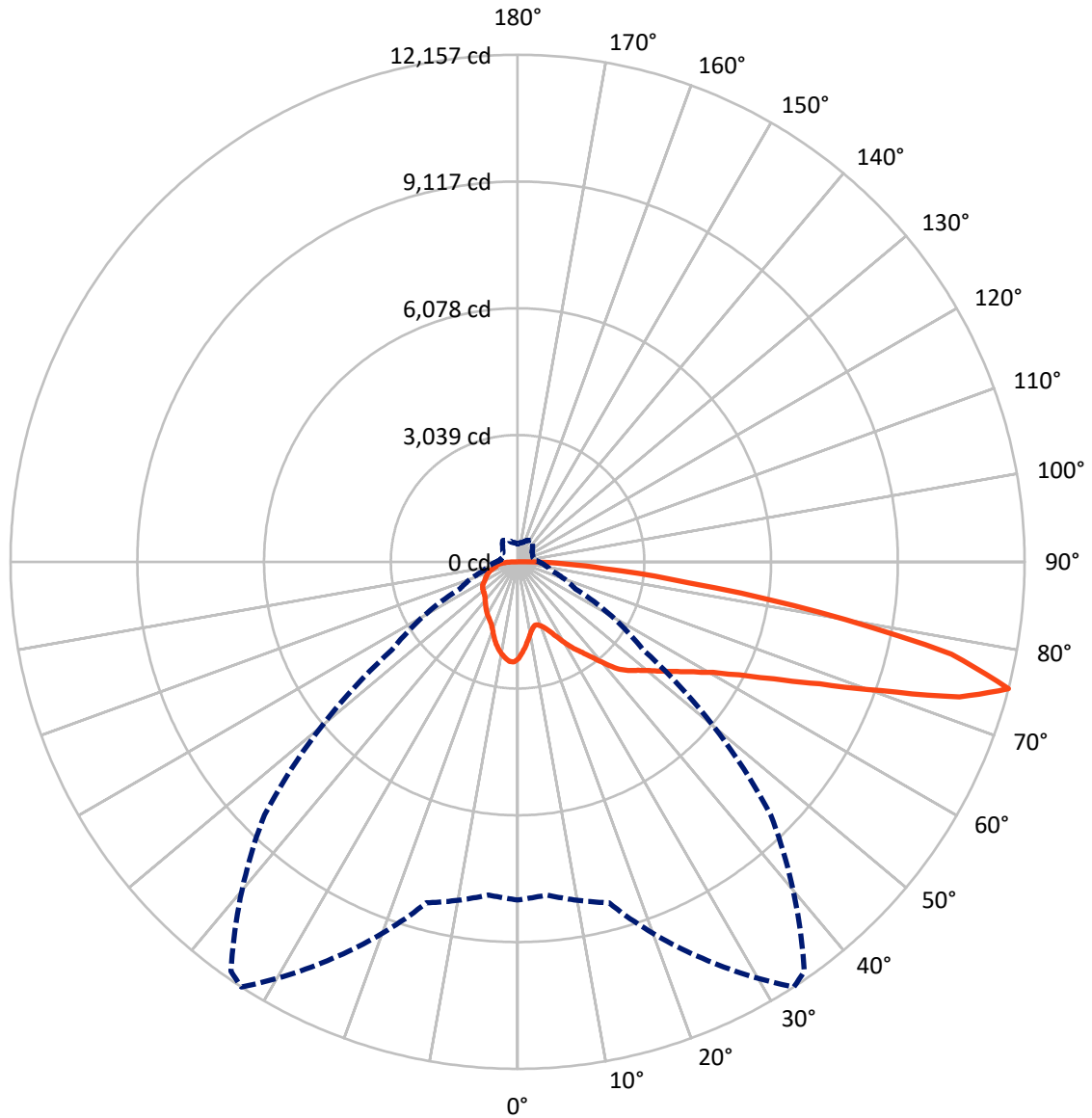
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3194.5	0.0	3194.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	11682.4	0.0	11682.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	14876.8	0.0	14876.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	1.4
10°-20°	569.6	3.8
20°-30°	930.2	6.3
30°-40°	1385.3	9.3
40°-50°	1986.9	13.4
50°-60°	2727.7	18.3
60°-70°	3414.9	23.0
70°-80°	3089.3	20.8
80°-90°	562.7	3.8
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°	14876.8	100.0
0°-180°	14876.8	100.0

Coefficient of Utilization



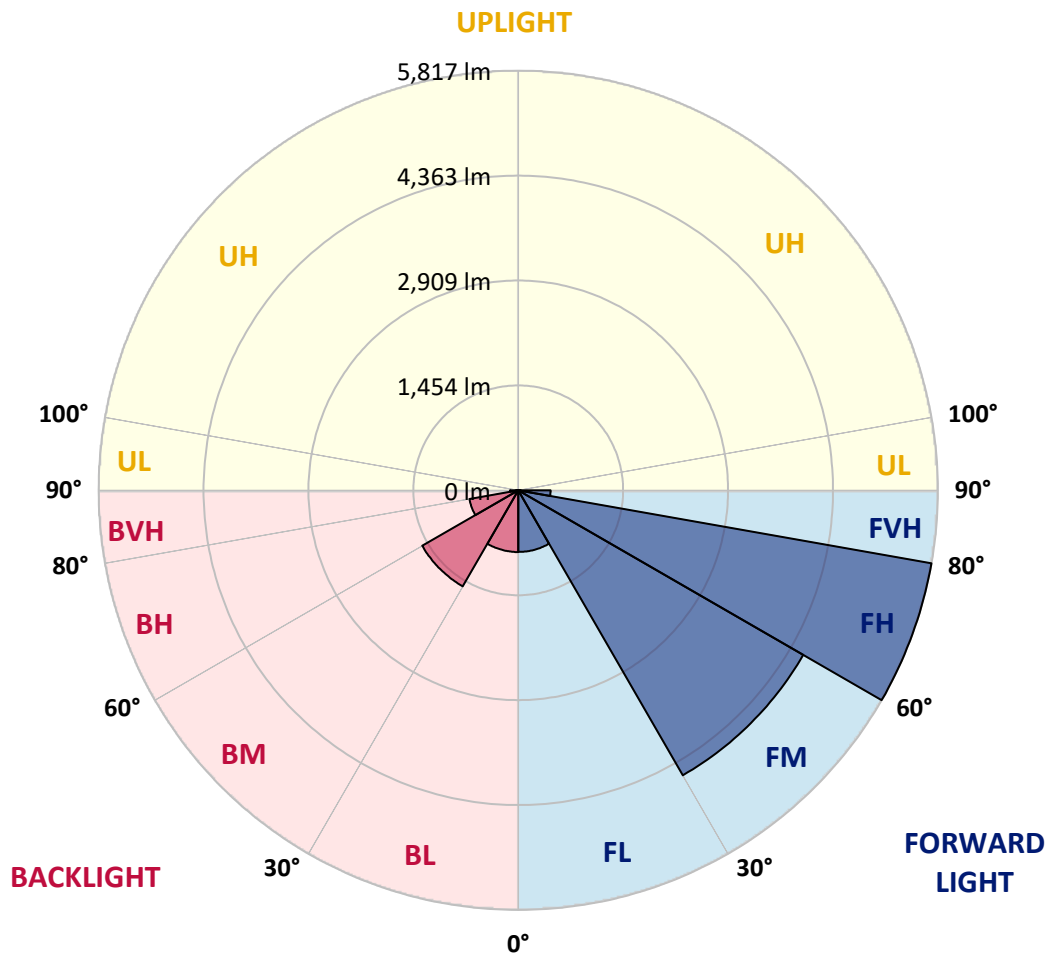
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	854.4	5.7			
FM (30°-60°)	4562.4	30.7			
FH (60°-80°)	5817.3	39.1			G3/7500
FVH (80°-90°)	448.2	3.0			G3/500
BL (0°-30°)	855.6	5.8	B2/1000		
BM (30°-60°)	1537.4	10.3	B2/2500		
BH (60°-80°)	686.9	4.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3
2.5°	2159.3	2151.1	2166.5	2168.5	2182.0	2187.1	2205.6	2234.4	2258.0	2285.3	2310.0
5°	1963.5	1957.9	1979.4	1994.9	2024.2	2036.5	2080.2	2141.3	2195.8	2257.5	2313.5
7.5°	1777.5	1774.4	1798.6	1833.6	1867.5	1884.4	1960.0	2048.8	2139.9	2239.5	2325.3
10°	1620.8	1619.8	1642.9	1677.3	1727.2	1746.2	1843.8	1961.0	2088.4	2225.7	2345.4
12.5°	1533.0	1536.5	1547.3	1576.1	1622.3	1641.4	1749.8	1887.5	2045.3	2221.0	2374.7
15°	1554.5	1560.2	1541.6	1540.6	1573.5	1588.4	1690.2	1835.1	2014.5	2228.7	2417.3
17.5°	1646.5	1647.5	1598.7	1567.9	1587.9	1595.6	1671.7	1805.2	1996.4	2246.1	2470.7
20°	1776.0	1773.4	1687.1	1635.7	1646.5	1648.6	1697.8	1805.8	1994.9	2276.5	2540.1
22.5°	1947.6	1928.6	1812.5	1742.6	1740.0	1737.0	1765.2	1843.8	2017.5	2325.9	2622.9
25°	2171.7	2153.7	1993.9	1898.3	1877.7	1870.0	1874.2	1925.0	2062.3	2378.8	2715.4
27.5°	2420.9	2389.6	2235.4	2100.3	2057.6	2046.8	2022.1	2039.6	2111.1	2429.7	2825.4
30°	2629.6	2612.6	2477.9	2317.6	2267.3	2251.8	2187.1	2168.1	2181.4	2499.1	2964.1
32.5°	2746.2	2734.9	2653.2	2523.7	2476.9	2455.4	2363.9	2325.9	2294.5	2608.5	3152.2
35°	2887.5	2880.3	2831.0	2737.0	2667.6	2644.9	2574.1	2534.5	2453.8	2759.1	3395.2
37.5°	3067.4	3059.7	3060.7	2984.7	2901.9	2880.8	2834.0	2792.4	2660.4	2956.9	3659.4
40°	3270.8	3255.9	3250.4	3246.7	3194.3	3182.4	3157.9	3101.3	2919.4	3193.3	3920.0
42.5°	3577.1	3524.2	3411.1	3453.8	3505.7	3499.5	3519.6	3438.4	3207.1	3472.8	4174.3
45°	3872.6	3785.8	3590.6	3599.8	3713.3	3747.8	3897.8	3840.3	3519.1	3779.1	4437.4
47.5°	4007.2	3941.5	3775.5	3776.0	3888.6	3960.0	4288.8	4247.8	3846.9	4127.0	4758.5
50°	4157.9	4092.1	3943.1	3999.0	4097.2	4173.2	4666.6	4645.5	4158.9	4507.8	5143.4
52.5°	4322.3	4210.8	4116.2	4216.5	4354.1	4442.6	5044.8	4987.2	4445.1	4891.2	5585.9
55°	4324.3	4294.1	4366.0	4439.5	4645.5	4754.0	5441.0	5288.9	4678.4	5267.8	5946.2
57.5°	4570.5	4521.2	4673.8	4707.7	4977.0	5099.3	5835.1	5551.5	4915.9	5556.7	6140.4
60°	4896.3	4854.2	4979.0	5068.5	5387.0	5550.4	6256.0	5821.3	5102.4	5774.6	6131.2
62.5°	5459.0	5411.2	5409.7	5535.1	5964.1	6154.3	6728.3	6085.9	5176.3	5817.7	5869.6
65°	6282.7	6206.7	6063.4	6123.0	6761.2	6950.8	7256.0	6277.6	5078.7	5586.4	5195.9
67.5°	7084.4	7081.8	6905.6	7027.9	7813.6	7965.8	7857.3	6296.6	4774.0	4781.2	4000.6
70°	7883.5	7893.7	7863.9	8289.5	9235.5	9393.8	8497.6	6041.3	4089.0	3452.8	2396.8
72.5°	8516.6	8514.1	8664.1	9761.2	11080.9	11045.5	9037.2	5267.3	2935.9	1863.8	1145.4
75°	8106.5	8017.1	8464.2	10490.0	12156.5	11983.2	8578.2	3674.3	1523.6	848.5	616.7
77.5°	5287.4	5372.1	6028.4	8665.6	10633.3	10422.6	6293.5	1714.3	717.9	556.5	447.0
80°	1914.7	2004.1	2822.8	4908.6	7326.0	7291.5	3099.3	704.5	485.6	420.3	325.8
82.5°	658.8	691.7	1113.6	2179.9	4136.3	4290.4	1166.0	400.3	353.1	298.1	223.0
85°	258.5	296.0	509.3	1048.8	2086.4	2101.8	472.3	239.5	245.6	195.3	122.3
87.5°	98.2	119.2	243.6	487.2	952.8	875.2	169.1	114.1	139.7	116.2	58.0
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°	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3	2325.3
2.5°	2329.0	2339.7	2362.3	2377.8	2394.2	2398.8	2400.9	2405.0	2409.1	2407.6	2408.1
5°	2343.3	2364.4	2400.9	2416.2	2423.5	2415.2	2399.3	2386.4	2377.2	2372.1	2370.5
7.5°	2367.0	2396.8	2435.8	2433.2	2416.8	2380.3	2339.2	2308.4	2282.7	2273.4	2268.3
10°	2398.3	2433.2	2460.5	2431.2	2383.4	2320.2	2258.5	2210.7	2172.2	2157.3	2154.8
12.5°	2438.4	2473.8	2478.9	2416.8	2337.6	2251.4	2167.5	2104.4	2046.8	2028.3	2024.2
15°	2490.3	2523.7	2491.8	2391.7	2281.2	2165.0	2056.6	1970.8	1910.1	1887.5	1879.3
17.5°	2544.8	2576.7	2494.4	2350.0	2207.1	2062.7	1926.5	1838.7	1769.3	1743.1	1740.0
20°	2610.0	2624.4	2483.6	2290.4	2105.4	1930.2	1786.8	1704.1	1667.0	1648.6	1646.5
22.5°	2690.7	2675.3	2458.9	2209.7	1976.4	1777.0	1660.4	1621.8	1612.6	1608.5	1610.0
25°	2776.0	2728.7	2422.5	2104.4	1813.5	1623.9	1567.9	1578.7	1591.0	1589.4	1589.4
27.5°	2870.0	2783.2	2366.4	1964.5	1633.1	1498.5	1505.2	1544.7	1563.2	1562.8	1562.2
30°	2990.8	2844.9	2295.1	1796.6	1464.6	1410.1	1450.7	1499.0	1524.2	1523.2	1523.6
32.5°	3139.3	2912.7	2197.9	1609.0	1342.8	1344.9	1391.6	1439.4	1468.7	1466.1	1466.6
35°	3313.0	2988.8	2066.4	1424.0	1262.1	1292.9	1330.0	1363.3	1391.1	1387.4	1383.9
37.5°	3502.2	3063.3	1891.6	1258.5	1196.3	1244.6	1275.5	1281.2	1293.9	1284.7	1278.0
40°	3681.9	3120.3	1666.5	1122.8	1130.1	1203.6	1223.6	1201.0	1177.8	1174.8	1165.5
42.5°	3838.7	3139.3	1438.9	1014.5	1060.1	1160.3	1172.7	1125.4	1083.8	1064.3	1056.0
45°	4004.2	3146.0	1226.7	923.4	992.8	1121.8	1135.2	1071.9	1013.3	971.2	957.4
47.5°	4220.6	3194.3	1061.7	856.1	941.4	1096.2	1115.2	1029.3	953.3	893.2	880.3
50°	4503.7	3289.9	927.5	804.8	908.1	1079.2	1100.7	987.7	903.9	831.5	818.6
52.5°	4818.2	3377.8	819.1	763.1	875.7	1049.4	1082.3	957.9	857.7	774.4	760.5
55°	5038.1	3310.4	731.7	720.0	833.5	1006.7	1056.6	932.7	791.3	719.0	706.6
57.5°	5080.3	3080.3	665.5	675.3	782.7	953.3	1017.0	876.7	755.4	694.7	681.9
60°	4965.1	2759.5	616.1	634.1	728.2	885.9	943.0	837.1	721.0	669.0	658.3
62.5°	4675.8	2431.2	579.7	597.1	677.3	817.6	896.7	795.4	686.0	639.8	629.0
65°	4091.5	2041.1	544.7	564.2	630.0	758.5	855.1	757.0	651.6	616.1	605.9
67.5°	3088.5	1528.8	511.8	529.3	587.9	707.1	809.9	719.0	618.2	595.6	583.2
70°	1818.7	957.4	474.3	492.8	543.7	653.7	761.5	677.3	576.5	566.3	550.4
72.5°	846.4	576.1	431.7	449.7	488.2	582.2	699.4	622.8	527.3	504.6	483.0
75°	505.2	421.4	381.3	397.2	424.5	506.2	621.2	567.3	480.5	450.7	428.0
77.5°	377.7	322.2	325.8	342.7	364.9	443.0	550.4	523.6	444.5	421.4	406.0
80°	271.8	244.6	265.7	284.2	307.3	402.9	527.3	484.1	401.9	371.0	356.6
82.5°	181.4	175.8	199.9	218.9	241.6	352.5	495.4	423.9	343.3	304.2	272.4
85°	100.2	105.8	134.6	142.9	162.4	248.2	406.0	340.7	258.5	208.1	198.9
87.5°	41.6	48.8	72.5	69.9	86.4	148.0	267.3	205.6	164.4	122.8	95.6
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)