

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: P318707

Luminaire Tested: **GAN-SA3A-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318707
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-SA3A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA 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: 14312 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

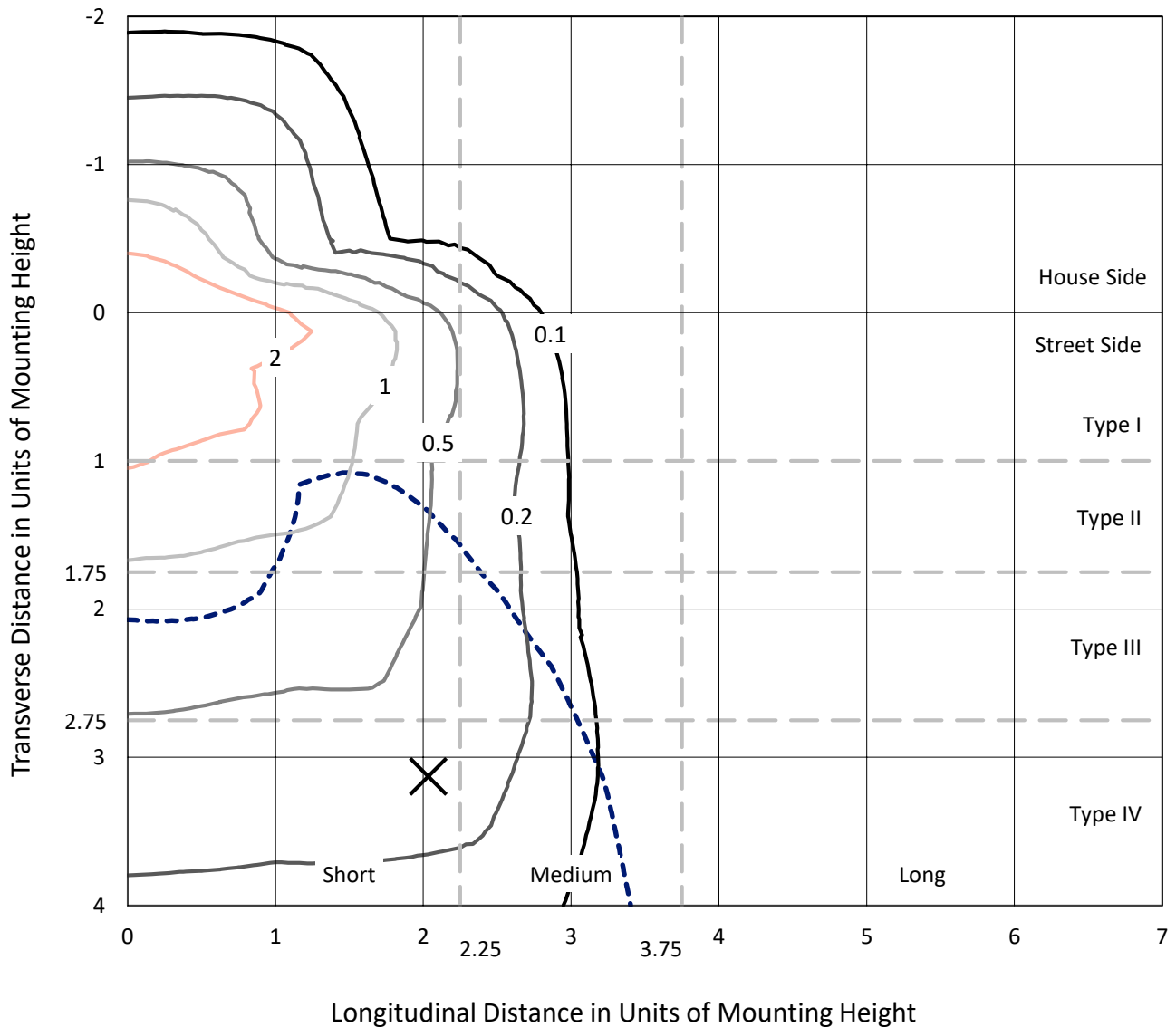
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

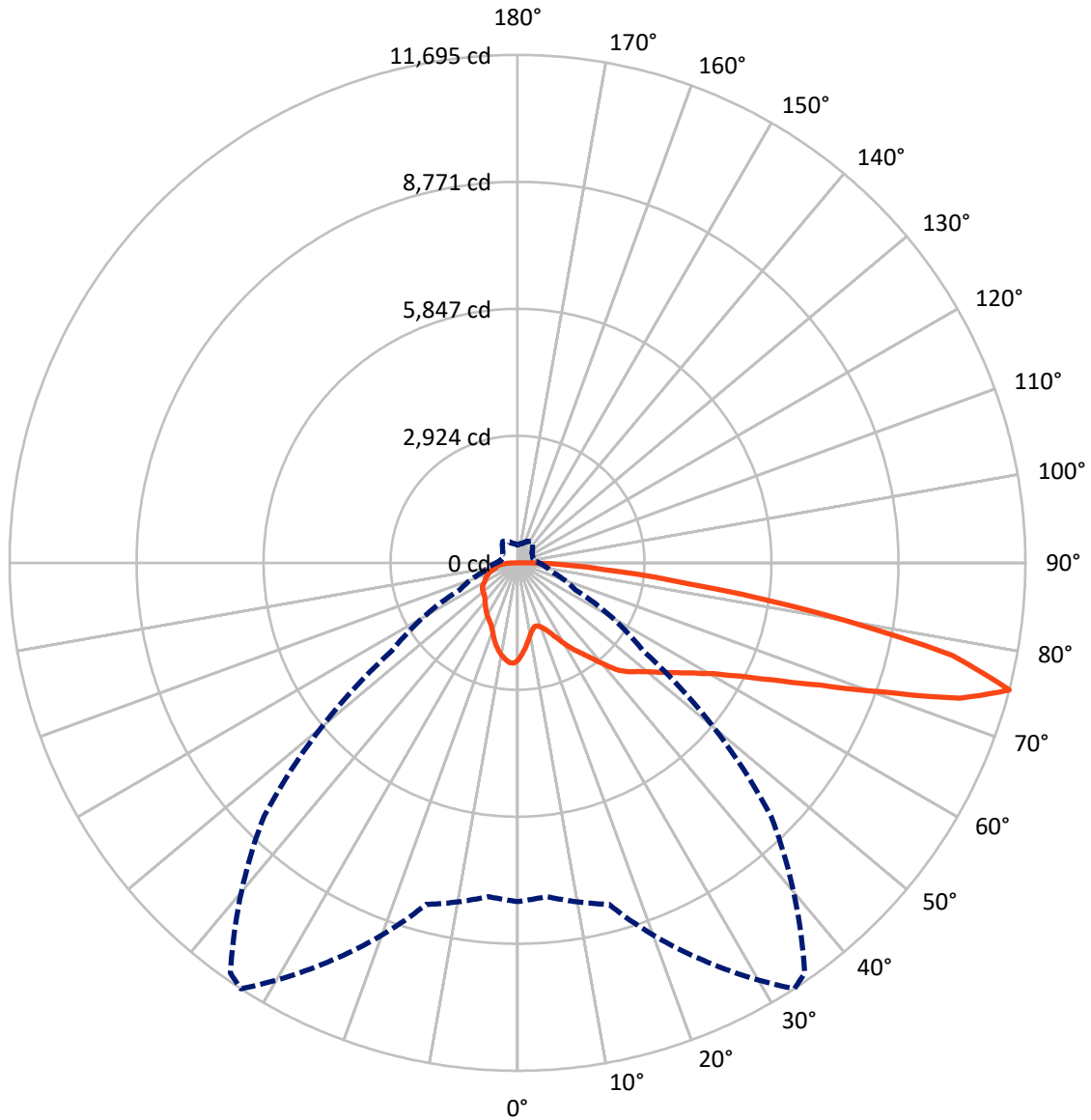
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	3073.2	0.0	3073.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	11238.8	0.0	11238.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	14312.0	0.0	14312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.4
10°-20°	547.9	3.8
20°-30°	894.9	6.3
30°-40°	1332.7	9.3
40°-50°	1911.4	13.4
50°-60°	2624.1	18.3
60°-70°	3285.3	23.0
70°-80°	2972.0	20.8
80°-90°	541.4	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°	14312.0	100.0
0°-180°	14312.0	100.0

Coefficient of Utilization



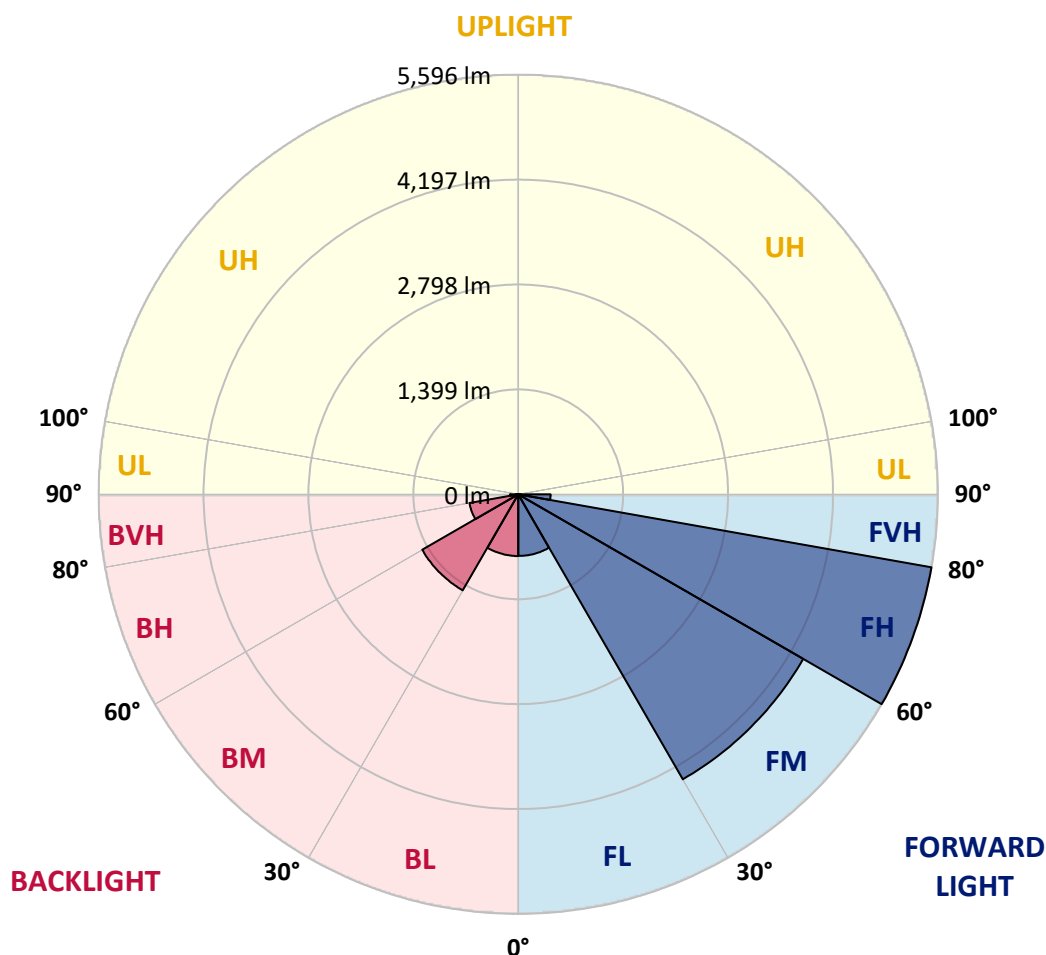
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.0	5.7			
FM (30°-60°)	4389.2	30.7			
FH (60°-80°)	5596.5	39.1			G3/7500
FVH (80°-90°)	431.2	3.0			G3/500
BL (0°-30°)	823.1	5.8	B2/1000		
BM (30°-60°)	1479.0	10.3	B2/2500		
BH (60°-80°)	660.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	110.2	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°	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0
2.5°	2077.4	2069.5	2084.3	2086.3	2099.1	2104.1	2121.9	2149.5	2172.3	2198.5	2222.2
5°	1889.0	1883.6	1904.3	1919.2	1947.3	1959.2	2001.2	2060.1	2112.5	2171.8	2225.7
7.5°	1710.0	1707.1	1730.3	1763.9	1796.6	1812.9	1885.5	1971.1	2058.6	2154.5	2237.0
10°	1559.3	1558.3	1580.5	1613.6	1661.6	1679.9	1773.8	1886.5	2009.1	2141.1	2256.3
12.5°	1474.7	1478.2	1488.6	1516.2	1560.7	1579.0	1683.3	1815.8	1967.6	2136.7	2284.5
15°	1495.5	1500.9	1483.1	1482.1	1513.8	1528.1	1626.0	1765.4	1937.9	2144.1	2325.5
17.5°	1584.0	1585.0	1538.0	1508.3	1527.6	1535.0	1608.2	1736.7	1920.6	2160.9	2377.0
20°	1708.6	1706.1	1623.0	1573.6	1584.0	1586.0	1633.4	1737.2	1919.2	2190.1	2443.7
22.5°	1873.7	1855.4	1743.7	1676.4	1674.0	1671.0	1698.2	1773.8	1940.9	2237.5	2523.3
25°	2089.2	2071.9	1918.2	1826.2	1806.4	1799.0	1803.0	1851.9	1983.9	2288.5	2612.3
27.5°	2329.0	2298.8	2150.5	2020.5	1979.5	1969.1	1945.4	1962.2	2030.9	2337.4	2718.1
30°	2529.7	2513.4	2383.9	2229.6	2181.2	2166.4	2104.1	2085.8	2098.6	2404.1	2851.6
32.5°	2641.9	2631.1	2552.5	2427.9	2382.9	2362.1	2274.1	2237.5	2207.4	2509.4	3032.5
35°	2777.9	2771.0	2723.5	2633.0	2566.3	2544.5	2476.3	2438.3	2360.6	2654.3	3266.3
37.5°	2950.9	2943.5	2944.5	2871.3	2791.7	2771.5	2726.5	2686.4	2559.4	2844.6	3520.4
40°	3146.7	3132.4	3126.9	3123.5	3073.0	3061.7	3037.9	2983.6	2808.5	3072.0	3771.1
42.5°	3441.3	3390.4	3281.7	3322.7	3372.6	3366.7	3386.0	3307.9	3085.4	3341.0	4015.8
45°	3725.6	3642.1	3454.2	3463.1	3572.4	3605.5	3749.8	3694.5	3385.5	3635.6	4268.9
47.5°	3855.1	3791.9	3632.2	3632.7	3740.9	3809.7	4126.1	4086.5	3700.9	3970.3	4577.9
50°	4000.0	3936.7	3793.3	3847.2	3941.7	4014.8	4489.4	4469.1	4001.0	4336.7	4948.2
52.5°	4158.2	4050.9	3959.9	4056.3	4188.8	4273.9	4853.3	4797.9	4276.3	4705.5	5373.9
55°	4160.2	4131.0	4200.2	4270.9	4469.1	4573.5	5234.4	5088.1	4500.8	5067.8	5720.4
57.5°	4397.0	4349.5	4496.3	4529.0	4788.0	4905.7	5613.6	5340.7	4729.2	5345.7	5907.3
60°	4710.4	4669.9	4790.0	4876.0	5182.5	5339.7	6018.5	5600.3	4908.6	5555.3	5898.4
62.5°	5251.7	5205.8	5204.3	5324.9	5737.7	5920.6	6472.8	5854.9	4979.8	5596.8	5646.7
65°	6044.2	5971.1	5833.1	5890.5	6504.5	6686.9	6980.6	6039.3	4885.9	5374.3	4998.6
67.5°	6815.5	6813.0	6643.4	6761.1	7517.0	7663.3	7559.0	6057.6	4592.7	4599.7	3848.7
70°	7584.2	7594.1	7565.4	7974.8	8884.9	9037.2	8175.0	5811.9	3933.7	3321.7	2305.8
72.5°	8193.3	8190.8	8335.2	9390.6	10660.2	10626.1	8694.1	5067.3	2824.4	1793.1	1102.0
75°	7798.8	7712.7	8142.8	10091.7	11694.9	11528.3	8252.6	3534.8	1465.8	816.2	593.2
77.5°	5086.6	5168.2	5799.5	8336.6	10229.6	10026.9	6054.6	1649.2	690.6	535.4	430.1
80°	1842.0	1928.1	2715.6	4722.3	7047.8	7014.7	2981.6	677.8	467.2	404.4	313.4
82.5°	633.8	665.4	1071.3	2097.1	3979.2	4127.5	1121.7	385.1	339.6	286.7	214.6
85°	248.7	284.8	489.9	1009.0	2007.2	2022.0	454.3	230.4	236.3	187.9	117.7
87.5°	94.4	114.7	234.3	468.7	916.6	841.9	162.6	109.8	134.5	111.7	55.9
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°	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0	2237.0
2.5°	2240.5	2250.9	2272.6	2287.5	2303.3	2307.7	2309.7	2313.7	2317.6	2316.1	2316.6
5°	2254.3	2274.6	2309.7	2324.6	2331.5	2323.6	2308.2	2295.9	2287.0	2282.0	2280.6
7.5°	2277.1	2305.8	2343.3	2340.9	2325.0	2289.9	2250.4	2220.7	2196.0	2187.1	2182.2
10°	2307.2	2340.9	2367.1	2338.9	2292.9	2232.1	2172.8	2126.8	2089.7	2075.4	2072.9
12.5°	2345.8	2379.9	2384.9	2325.0	2248.9	2165.9	2085.3	2024.5	1969.1	1951.3	1947.3
15°	2395.7	2427.9	2397.2	2300.8	2194.5	2082.8	1978.5	1895.9	1837.6	1815.8	1807.9
17.5°	2448.1	2478.8	2399.7	2260.8	2123.3	1984.4	1853.4	1768.9	1702.1	1676.9	1674.0
20°	2510.9	2524.8	2389.3	2203.4	2025.5	1856.9	1718.9	1639.3	1603.8	1586.0	1584.0
22.5°	2588.5	2573.7	2365.6	2125.8	1901.4	1709.5	1597.3	1560.2	1551.3	1547.4	1548.9
25°	2670.6	2625.1	2330.5	2024.5	1744.6	1562.2	1508.3	1518.7	1530.6	1529.1	1529.1
27.5°	2761.1	2677.5	2276.6	1890.0	1571.1	1441.6	1448.0	1486.1	1503.9	1503.4	1502.9
30°	2877.3	2736.9	2207.9	1728.3	1409.0	1356.6	1395.6	1442.1	1466.3	1465.3	1465.8
32.5°	3020.1	2802.1	2114.4	1547.9	1291.8	1293.8	1338.8	1384.7	1412.9	1410.5	1410.9
35°	3187.2	2875.3	1987.9	1369.9	1214.2	1243.8	1279.4	1311.6	1338.3	1334.8	1331.4
37.5°	3369.2	2947.0	1819.8	1210.7	1150.9	1197.4	1227.0	1232.5	1244.8	1235.9	1229.5
40°	3542.2	3001.8	1603.3	1080.2	1087.1	1157.8	1177.1	1155.4	1133.1	1130.1	1121.2
42.5°	3693.0	3020.1	1384.2	975.9	1019.9	1116.3	1128.2	1082.7	1042.6	1023.9	1015.9
45°	3852.2	3026.6	1180.1	888.4	955.1	1079.2	1092.1	1031.3	974.9	934.4	921.0
47.5°	4060.3	3073.0	1021.4	823.6	905.7	1054.5	1072.8	990.2	917.1	859.2	846.9
50°	4332.7	3165.0	892.3	774.2	873.6	1038.2	1059.0	950.2	869.6	799.9	787.5
52.5°	4635.3	3249.5	788.0	734.1	842.4	1009.5	1041.2	921.5	825.1	745.0	731.7
55°	4846.9	3184.8	704.0	692.6	801.9	968.5	1016.4	897.3	761.3	691.6	679.8
57.5°	4887.4	2963.3	640.2	649.6	752.9	917.1	978.4	843.4	726.7	668.4	656.0
60°	4776.6	2654.8	592.8	610.1	700.5	852.3	907.2	805.3	693.6	643.7	633.3
62.5°	4498.3	2338.9	557.7	574.5	651.6	786.6	862.7	765.3	660.0	615.5	605.1
65°	3936.2	1963.7	524.0	542.8	606.1	729.7	822.6	728.2	626.9	592.8	582.9
67.5°	2971.2	1470.8	492.4	509.2	565.6	680.3	779.1	691.6	594.7	573.0	561.1
70°	1749.6	921.0	456.3	474.1	523.0	628.8	732.7	651.6	554.7	544.8	529.5
72.5°	814.2	554.2	415.3	432.6	469.7	560.1	672.8	599.2	507.2	485.5	464.7
75°	486.0	405.4	366.8	382.2	408.4	487.0	597.7	545.8	462.2	433.6	411.8
77.5°	363.4	310.0	313.4	329.7	351.0	426.2	529.5	503.8	427.6	405.4	390.6
80°	261.5	235.3	255.6	273.4	295.6	387.6	507.2	465.7	386.6	356.9	343.1
82.5°	174.5	169.1	192.3	210.6	232.4	339.1	476.6	407.9	330.2	292.7	262.0
85°	96.4	101.8	129.5	137.4	156.2	238.8	390.6	327.8	248.7	200.2	191.3
87.5°	40.0	47.0	69.7	67.2	83.1	142.4	257.1	197.7	158.2	118.2	92.0
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)