

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: P318787

Luminaire Tested: **GAN-SA3A-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318787
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-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 14313 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

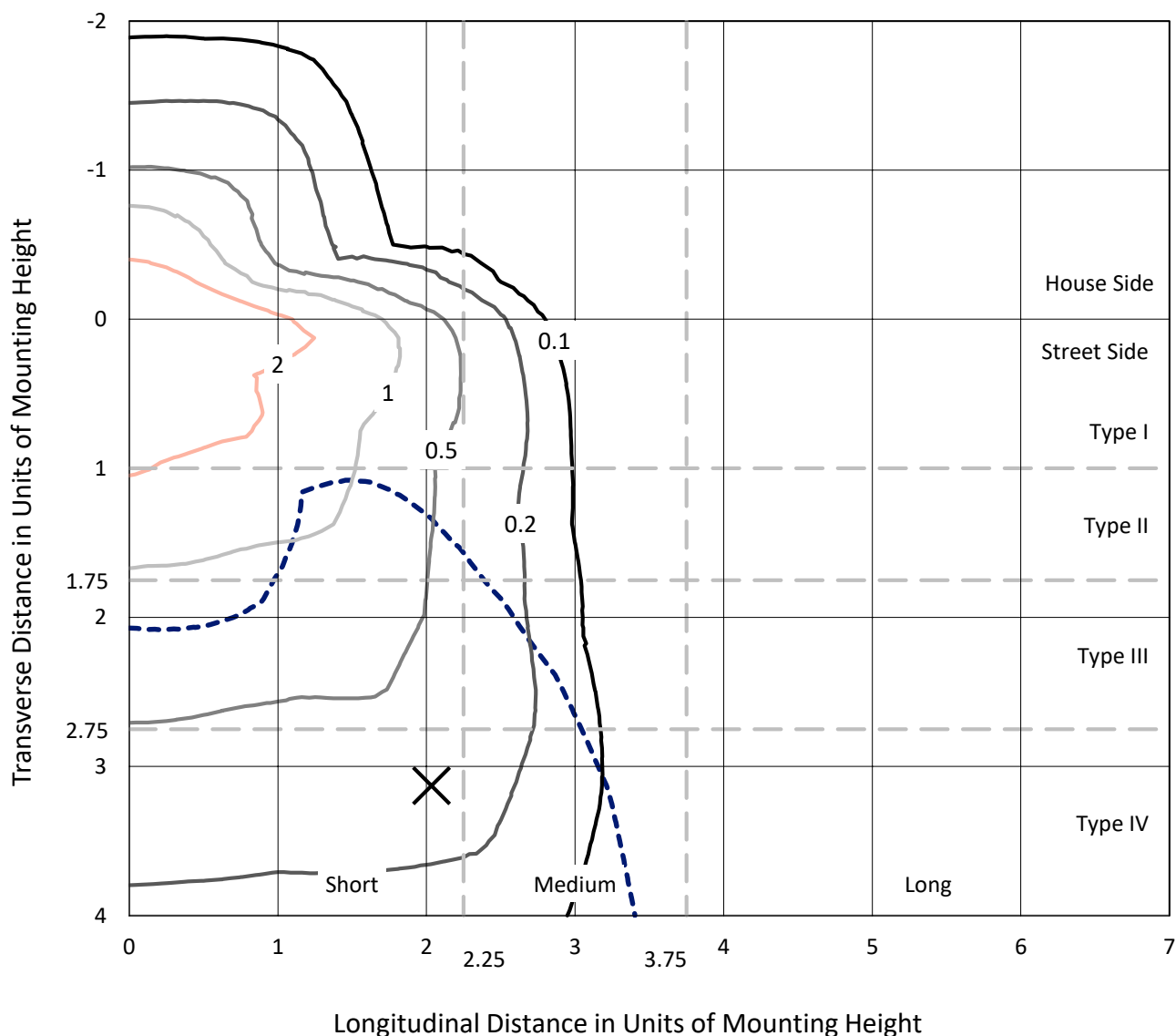
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318787
 CATALOG NUMBER: GAN-SA3A-760-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

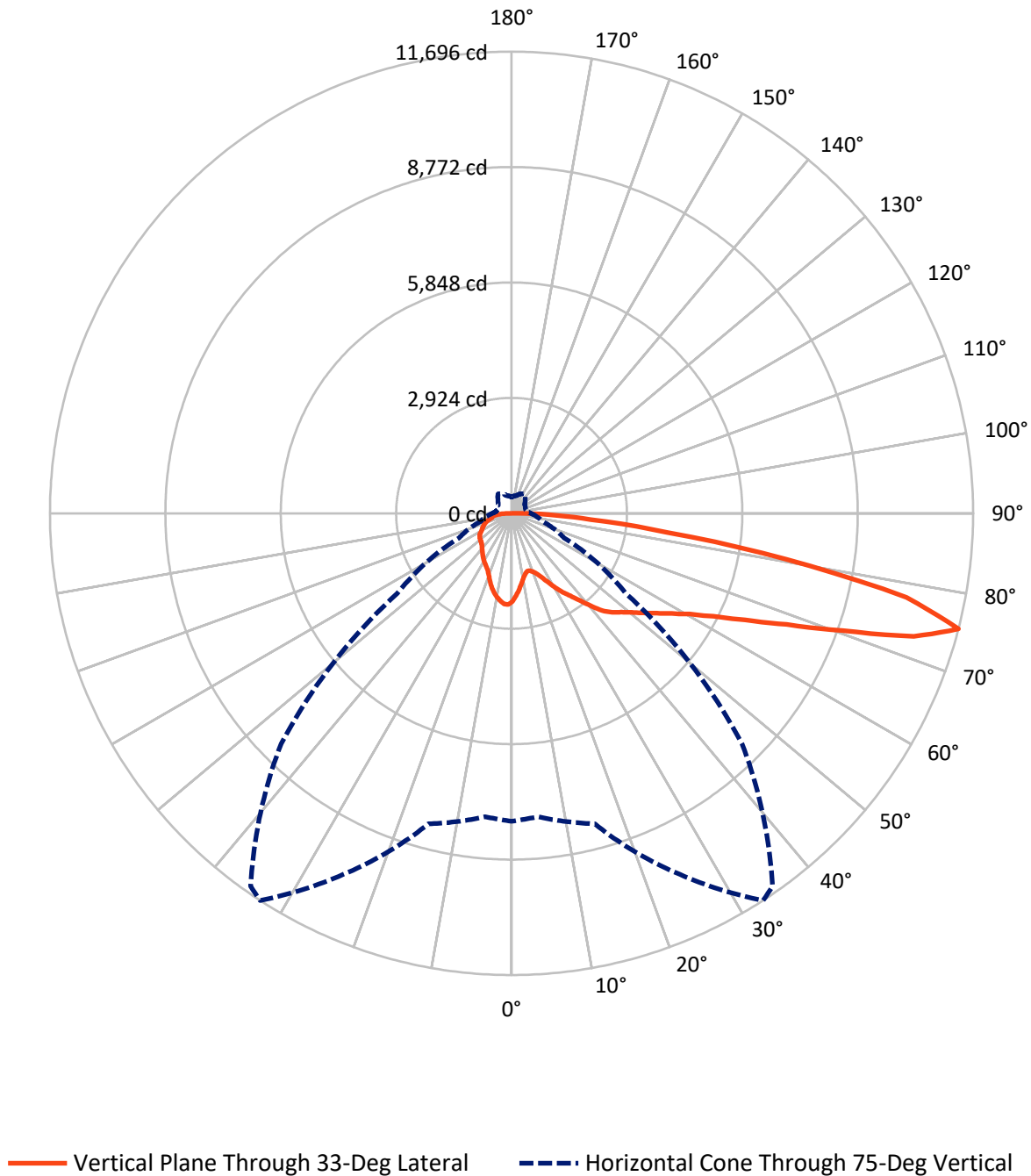
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P318787
CATALOG NUMBER: GAN-SA3A-760-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3073.4	0.0	3073.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	11239.6	0.0	11239.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	14313.0	0.0	14313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.4
10°-20°	548.0	3.8
20°-30°	894.9	6.3
30°-40°	1332.8	9.3
40°-50°	1911.6	13.4
50°-60°	2624.3	18.3
60°-70°	3285.5	23.0
70°-80°	2972.2	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°	14313.0	100.0
0°-180°	14313.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318787

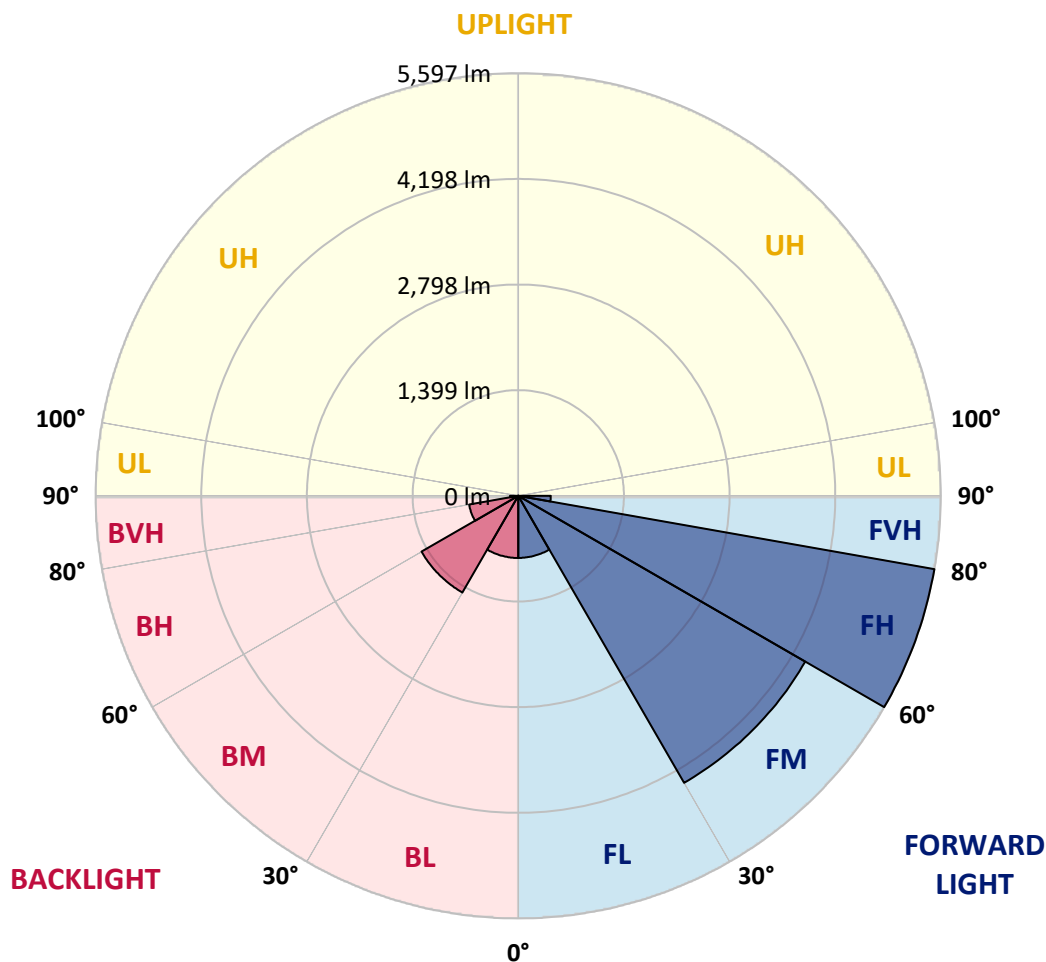
CATALOG NUMBER: GAN-SA3A-760-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	822.1	5.7			
FM	(30°-60°)	4389.5	30.7			
FH	(60°-80°)	5596.9	39.1			G3/7500
FVH	(80°-90°)	431.2	3.0			G3/500
BL	(0°-30°)	823.2	5.8	B2/1000		
BM	(30°-60°)	1479.1	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





REPORT NUMBER: P318787

CATALOG NUMBER: GAN-SA3A-760-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2
2.5°	2077.5	2069.6	2084.4	2086.4	2099.3	2104.2	2122.0	2149.7	2172.4	2198.6	2222.4
5°	1889.1	1883.7	1904.5	1919.3	1947.5	1959.3	2001.4	2060.2	2112.6	2171.9	2225.8
7.5°	1710.2	1707.2	1730.4	1764.1	1796.7	1813.0	1885.7	1971.2	2058.7	2154.6	2237.2
10°	1559.4	1558.4	1580.6	1613.8	1661.7	1680.0	1773.9	1886.7	2009.3	2141.3	2256.5
12.5°	1474.8	1478.3	1488.7	1516.4	1560.9	1579.1	1683.5	1816.0	1967.7	2136.8	2284.7
15°	1495.6	1501.0	1483.2	1482.2	1513.9	1528.2	1626.1	1765.5	1938.1	2144.3	2325.7
17.5°	1584.1	1585.1	1538.1	1508.4	1527.7	1535.1	1608.3	1736.9	1920.8	2161.1	2377.1
20°	1708.7	1706.2	1623.1	1573.7	1584.1	1586.1	1633.5	1737.4	1919.3	2190.2	2443.9
22.5°	1873.8	1855.5	1743.8	1676.5	1674.1	1671.1	1698.3	1773.9	1941.1	2237.7	2523.5
25°	2089.4	2072.1	1918.3	1826.3	1806.6	1799.2	1803.1	1852.1	1984.1	2288.6	2612.5
27.5°	2329.2	2299.0	2150.7	2020.7	1979.6	1969.2	1945.5	1962.3	2031.0	2337.6	2718.3
30°	2529.9	2513.6	2384.0	2229.8	2181.3	2166.5	2104.2	2085.9	2098.8	2404.3	2851.8
32.5°	2642.1	2631.2	2552.6	2428.0	2383.1	2362.3	2274.3	2237.7	2207.5	2509.6	3032.7
35°	2778.1	2771.2	2723.7	2633.2	2566.5	2544.7	2476.5	2438.4	2360.8	2654.5	3266.6
37.5°	2951.1	2943.7	2944.7	2871.5	2791.9	2771.7	2726.7	2686.6	2559.6	2844.8	3520.7
40°	3146.9	3132.6	3127.1	3123.7	3073.2	3061.9	3038.1	2983.8	2808.7	3072.3	3771.4
42.5°	3441.6	3390.7	3281.9	3322.9	3372.9	3366.9	3386.2	3308.1	3085.6	3341.2	4016.1
45°	3725.9	3642.3	3454.4	3463.3	3572.6	3605.7	3750.1	3694.7	3385.7	3635.9	4269.2
47.5°	3855.4	3792.1	3632.4	3632.9	3741.2	3809.9	4126.3	4086.8	3701.1	3970.6	4578.2
50°	4000.3	3937.0	3793.6	3847.5	3941.9	4015.1	4489.7	4469.5	4001.3	4337.0	4948.5
52.5°	4158.5	4051.2	3960.2	4056.6	4189.1	4274.2	4853.6	4798.2	4276.6	4705.8	5374.2
55°	4160.5	4131.3	4200.5	4271.2	4469.5	4573.8	5234.8	5088.5	4501.1	5068.2	5720.8
57.5°	4397.3	4349.8	4496.7	4529.3	4788.4	4906.0	5614.0	5341.1	4729.5	5346.0	5907.7
60°	4710.7	4670.2	4790.3	4876.4	5182.9	5340.1	6018.9	5600.7	4909.0	5555.7	5898.8
62.5°	5252.1	5206.1	5204.6	5325.3	5738.1	5921.0	6473.3	5855.3	4980.2	5597.2	5647.1
65°	6044.6	5971.5	5833.5	5890.9	6504.9	6687.4	6981.1	6039.7	4886.2	5374.7	4999.0
67.5°	6815.9	6813.5	6643.9	6761.5	7517.5	7663.8	7559.5	6058.0	4593.1	4600.0	3849.0
70°	7584.7	7594.6	7565.9	7975.3	8885.5	9037.8	8175.6	5812.3	3934.0	3321.9	2305.9
72.5°	8193.8	8191.4	8335.7	9391.3	10660.9	10626.8	8694.7	5067.7	2824.6	1793.2	1102.0
75°	7799.3	7713.3	8143.4	10092.4	11695.7	11529.1	8253.2	3535.0	1465.9	816.3	593.3
77.5°	5087.0	5168.6	5799.9	8337.2	10230.3	10027.6	6055.0	1649.3	690.7	535.4	430.1
80°	1842.2	1928.2	2715.8	4722.6	7048.3	7015.2	2981.8	677.8	467.2	404.4	313.5
82.5°	633.8	665.5	1071.4	2097.3	3979.5	4127.8	1121.8	385.1	339.7	286.8	214.6
85°	248.7	284.8	490.0	1009.1	2007.3	2022.1	454.4	230.4	236.3	187.9	117.7
87.5°	94.4	114.7	234.4	468.7	916.6	842.0	162.7	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

REPORT NUMBER: P318787

CATALOG NUMBER: GAN-SA3A-760-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2	2237.2
2.5°	2240.7	2251.0	2272.8	2287.6	2303.5	2307.9	2309.9	2313.8	2317.8	2316.3	2316.8
5°	2254.5	2274.8	2309.9	2324.7	2331.6	2323.7	2308.4	2296.0	2287.1	2282.2	2280.7
7.5°	2277.2	2305.9	2343.5	2341.0	2325.2	2290.1	2250.6	2220.9	2196.2	2187.3	2182.3
10°	2307.4	2341.0	2367.2	2339.1	2293.1	2232.3	2172.9	2126.9	2089.9	2075.5	2073.1
12.5°	2346.0	2380.1	2385.0	2325.2	2249.1	2166.0	2085.4	2024.6	1969.2	1951.4	1947.5
15°	2395.9	2428.0	2397.4	2301.0	2194.7	2082.9	1978.6	1896.1	1837.7	1816.0	1808.1
17.5°	2448.3	2479.0	2399.9	2260.9	2123.5	1984.6	1853.5	1769.0	1702.3	1677.0	1674.1
20°	2511.1	2524.9	2389.5	2203.6	2025.6	1857.0	1719.1	1639.5	1603.9	1586.1	1584.1
22.5°	2588.7	2573.9	2365.7	2126.0	1901.5	1709.7	1597.4	1560.4	1551.5	1547.5	1549.0
25°	2670.8	2625.3	2330.6	2024.6	1744.8	1562.3	1508.4	1518.8	1530.7	1529.2	1529.2
27.5°	2761.3	2677.7	2276.8	1890.1	1571.2	1441.7	1448.1	1486.2	1504.0	1503.5	1503.0
30°	2877.5	2737.0	2208.0	1728.5	1409.1	1356.7	1395.7	1442.2	1466.4	1465.4	1465.9
32.5°	3020.3	2802.3	2114.6	1548.0	1291.9	1293.9	1338.9	1384.8	1413.0	1410.5	1411.0
35°	3187.5	2875.5	1988.0	1370.0	1214.3	1243.9	1279.5	1311.7	1338.4	1334.9	1331.4
37.5°	3369.4	2947.2	1819.9	1210.8	1151.0	1197.5	1227.1	1232.6	1244.9	1236.0	1229.6
40°	3542.4	3002.1	1603.4	1080.3	1087.2	1157.9	1177.2	1155.4	1133.2	1130.2	1121.3
42.5°	3693.2	3020.3	1384.3	976.0	1020.0	1116.4	1128.2	1082.8	1042.7	1023.9	1016.0
45°	3852.4	3026.8	1180.2	888.5	955.2	1079.3	1092.2	1031.3	975.0	934.4	921.1
47.5°	4060.6	3073.2	1021.4	823.7	905.8	1054.6	1072.9	990.3	917.1	859.3	846.9
50°	4333.0	3165.2	892.4	774.2	873.6	1038.3	1059.0	950.3	869.7	800.0	787.6
52.5°	4635.6	3249.8	788.1	734.2	842.5	1009.6	1041.2	921.6	825.2	745.1	731.7
55°	4847.2	3185.0	704.0	692.7	801.9	968.5	1016.5	897.4	761.4	691.7	679.8
57.5°	4887.7	2963.5	640.3	649.7	753.0	917.1	978.4	843.5	726.8	668.4	656.1
60°	4777.0	2655.0	592.8	610.1	700.6	852.4	907.2	805.4	693.7	643.7	633.3
62.5°	4498.6	2339.1	557.7	574.5	651.6	786.6	862.7	765.3	660.0	615.5	605.2
65°	3936.5	1963.8	524.1	542.9	606.1	729.7	822.7	728.3	626.9	592.8	582.9
67.5°	2971.4	1470.9	492.4	509.2	565.6	680.3	779.2	691.7	594.8	573.0	561.2
70°	1749.7	921.1	456.3	474.1	523.1	628.9	732.7	651.6	554.7	544.8	529.5
72.5°	814.3	554.2	415.3	432.6	469.7	560.2	672.9	599.2	507.3	485.5	464.7
75°	486.0	405.4	366.9	382.2	408.4	487.0	597.7	545.8	462.3	433.6	411.8
77.5°	363.4	310.0	313.5	329.8	351.0	426.2	529.5	503.8	427.7	405.4	390.6
80°	261.5	235.3	255.6	273.4	295.7	387.6	507.3	465.7	386.6	357.0	343.1
82.5°	174.5	169.1	192.3	210.6	232.4	339.2	476.6	407.9	330.3	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	197.8	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)