

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: P200095

Luminaire Tested: **GAP-AF-01-LED-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-01-LED-U-AFL
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6671.7 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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: 28.75 FT



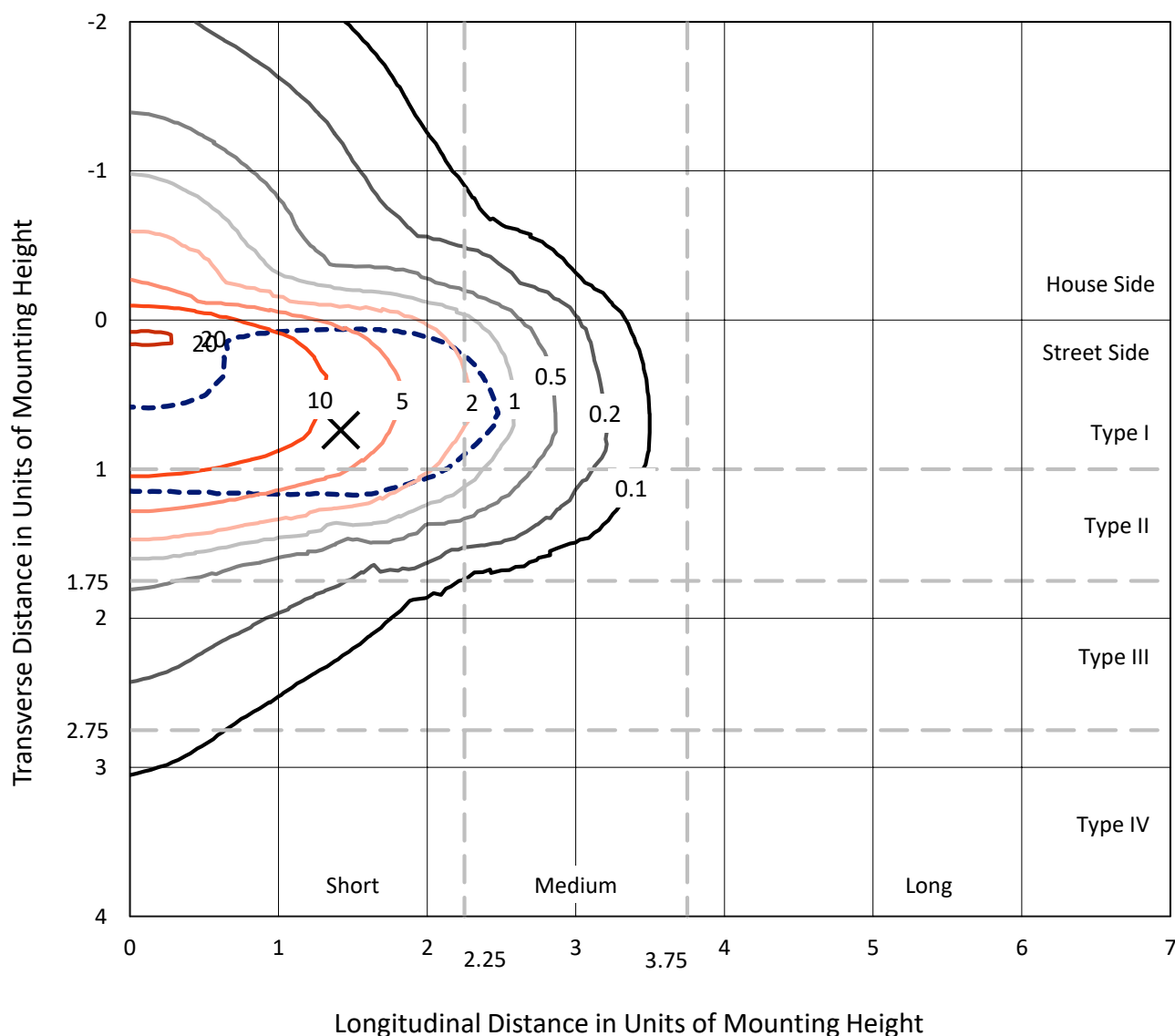
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

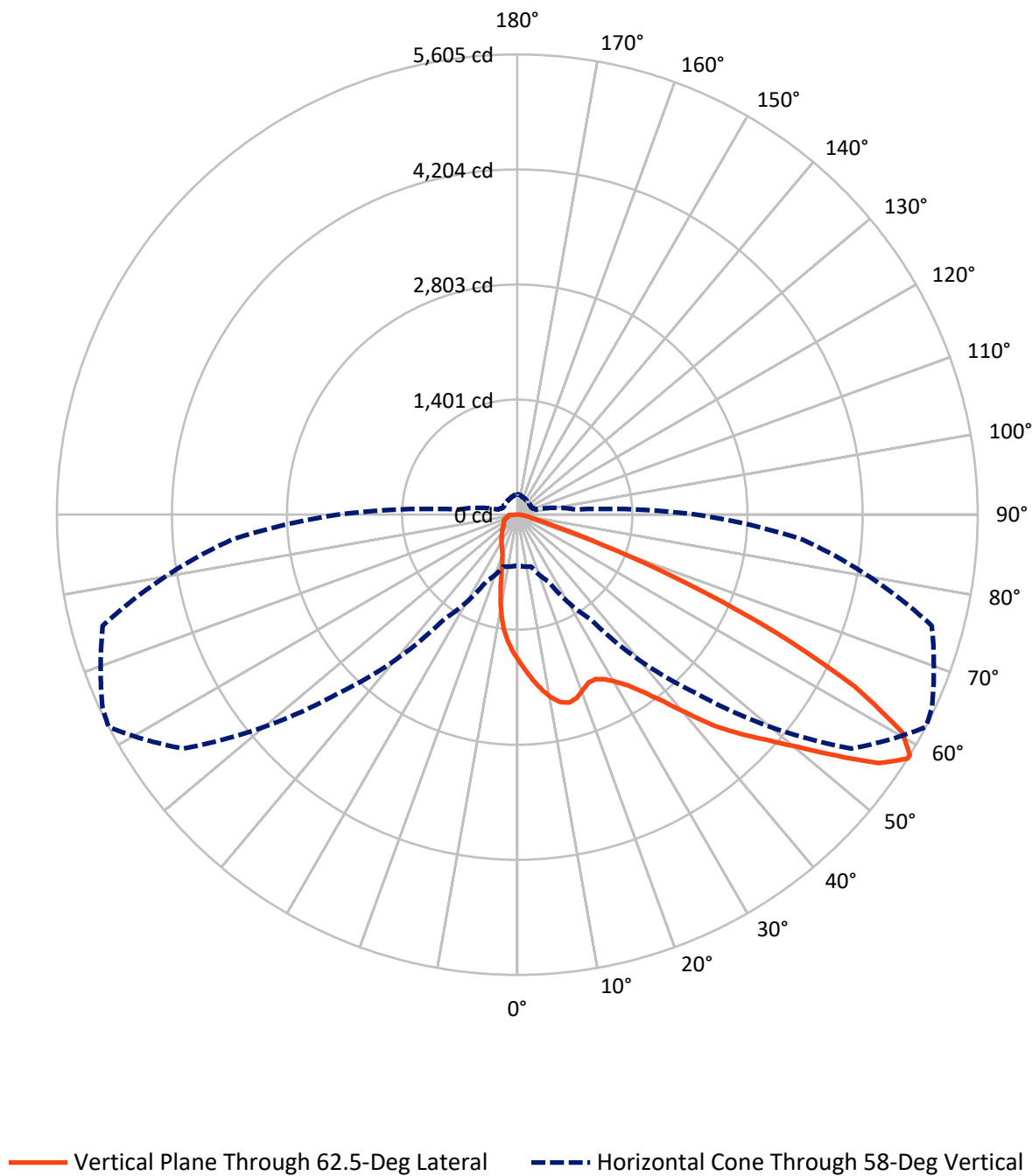


Based on 10 foot mounting height. Maximum calculated value = 21.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1017.5	0.0	1017.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5654.2	0.0	5654.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	6671.7	0.0	6671.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	2.4
10°-20°	405.1	6.1
20°-30°	654.9	9.8
30°-40°	1039.7	15.6
40°-50°	1521.3	22.8
50°-60°	1591.1	23.8
60°-70°	940.0	14.1
70°-80°	264.8	4.0
80°-90°	96.1	1.4
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°	6671.7	100.0
0°-180°	6671.7	100.0

Coefficient of Utilization



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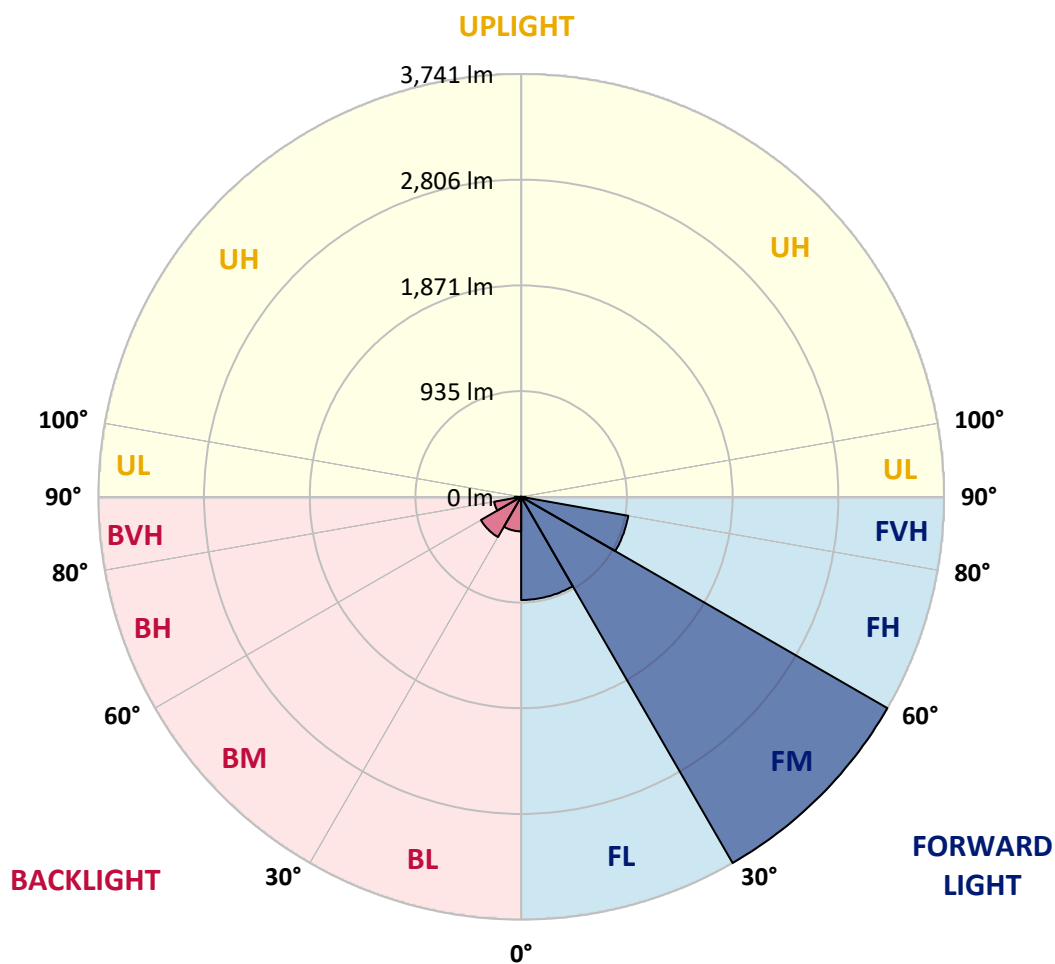
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	912.8	13.7			
FM	(30°-60°)	3741.4	56.1			
FH	(60°-80°)	962.1	14.4			G1/1800
FVH	(80°-90°)	37.9	0.6			G1/100
BL	(0°-30°)	305.8	4.6	B1/500		
BM	(30°-60°)	410.7	6.2	B1/1000		
BH	(60°-80°)	242.8	3.6	B1/500		G1/500
BVH	(80°-90°)	58.2	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2
2.5°	2025.1	2008.8	1998.4	1989.3	1977.4	1951.9	1917.6	1895.9	1885.0	1847.6	1803.3
5°	2223.7	2209.2	2198.5	2186.3	2164.9	2125.0	2069.7	2025.7	2004.1	1929.3	1840.7
7.5°	2177.1	2183.1	2201.7	2234.0	2261.6	2256.3	2207.0	2151.1	2122.5	2018.5	1884.1
10°	1897.0	1907.3	1939.3	2015.0	2137.6	2263.3	2301.5	2263.0	2234.0	2106.8	1928.7
12.5°	1840.7	1840.4	1842.8	1863.0	1935.8	2112.7	2304.7	2343.7	2326.4	2191.0	1974.2
15°	1863.6	1864.2	1862.4	1870.9	1893.5	1963.6	2208.6	2374.8	2387.1	2275.8	2021.4
17.5°	1924.0	1922.3	1915.2	1915.2	1923.4	1950.7	2095.5	2345.8	2402.4	2350.8	2062.8
20°	2025.1	2017.9	1998.7	1981.1	1972.4	1987.1	2049.0	2279.2	2375.7	2416.5	2097.0
22.5°	2147.6	2142.0	2110.9	2073.2	2042.7	2042.4	2072.8	2221.1	2329.6	2478.4	2125.9
25°	2305.9	2296.8	2250.7	2190.3	2136.9	2116.5	2125.0	2218.3	2304.4	2545.7	2151.7
27.5°	2491.9	2475.3	2420.6	2333.7	2255.1	2213.9	2201.7	2269.5	2327.3	2628.9	2187.5
30°	2717.5	2698.3	2628.3	2514.9	2403.9	2336.4	2310.3	2360.4	2403.3	2730.4	2245.0
32.5°	2974.2	2946.5	2865.5	2740.5	2594.7	2491.6	2449.3	2480.3	2514.5	2852.6	2317.0
35°	3328.9	3295.8	3178.7	3006.2	2841.7	2699.9	2632.1	2654.7	2688.0	3034.8	2420.9
37.5°	3570.8	3556.0	3478.1	3316.0	3136.9	2973.9	2869.0	2882.2	2901.0	3262.6	2554.1
40°	3568.6	3574.6	3576.1	3577.7	3455.8	3299.6	3186.9	3173.1	3169.3	3512.7	2705.6
42.5°	3389.9	3414.3	3493.5	3654.1	3728.1	3656.5	3553.2	3513.3	3493.5	3807.3	2866.1
45°	3116.2	3129.4	3277.6	3591.2	3867.7	4010.0	3931.7	3806.1	3770.3	4078.2	2999.3
47.5°	2975.2	2989.6	3082.9	3424.7	3866.1	4295.6	4340.8	4101.4	4037.3	4313.8	3114.3
50°	2639.3	2669.5	2786.9	3135.0	3725.1	4426.9	4768.4	4453.3	4320.7	4543.1	3229.6
52.5°	2022.6	2069.1	2200.7	2658.8	3367.2	4361.9	5110.5	4879.9	4692.7	4780.7	3328.6
55°	1275.8	1310.4	1421.0	1877.7	2693.6	4023.5	5240.3	5341.4	5174.9	5005.6	3414.3
57.5°	693.7	709.1	750.5	1036.8	1752.1	3275.5	5051.1	5604.0	5535.0	5196.6	3479.1
58°	620.8	631.2	656.9	898.5	1553.9	3071.0	4967.2	5605.0	5570.5	5224.5	3484.1
60°	460.5	455.2	432.3	512.7	864.9	2121.5	4460.2	5380.7	5482.2	5258.8	3459.6
62.5°	404.7	391.8	344.9	339.6	420.6	977.3	3412.8	4609.1	4848.8	5063.4	3310.7
65°	380.1	366.3	306.0	286.5	303.5	413.5	2010.3	3456.8	3757.4	4470.9	2929.9
67.5°	361.9	344.0	281.2	254.5	255.7	273.3	805.9	2177.1	2515.5	3394.6	2278.9
70°	344.3	324.9	260.1	229.3	222.1	216.1	320.5	1089.9	1396.7	2144.2	1453.0
72.5°	325.5	306.3	241.6	209.5	195.4	175.6	209.2	445.8	622.7	1014.5	659.1
75°	298.2	280.9	223.1	191.9	171.9	145.5	158.0	232.8	279.3	404.1	317.6
77.5°	264.5	250.4	202.3	177.5	152.4	118.2	121.6	161.5	179.1	231.2	188.8
80°	190.1	195.1	180.0	159.6	135.7	95.9	93.3	117.8	127.3	148.6	122.9
82.5°	133.5	136.4	148.9	130.4	112.1	75.4	68.8	83.0	88.6	97.7	66.3
85°	92.1	88.9	102.1	90.8	81.0	50.2	47.2	56.3	59.7	60.7	34.3
87.5°	55.3	55.3	59.0	48.7	43.7	26.1	25.5	32.0	34.3	32.6	18.8
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°	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2
2.5°	1776.9	1754.6	1707.2	1669.1	1621.1	1571.2	1543.1	1513.4	1492.9	1478.2	1501.7
5°	1790.4	1744.8	1646.8	1553.9	1451.2	1344.3	1263.2	1187.9	1135.4	1102.7	1133.5
7.5°	1811.7	1741.7	1585.6	1426.6	1242.2	1064.4	905.4	805.9	747.7	719.1	737.0
10°	1836.3	1736.7	1513.7	1254.1	990.2	766.3	647.5	607.3	594.1	588.7	591.3
12.5°	1856.8	1726.0	1425.4	1045.6	743.6	605.1	570.8	569.9	572.8	573.4	574.3
15°	1871.2	1710.3	1294.3	828.2	594.7	551.4	549.4	555.2	560.5	562.6	564.0
17.5°	1880.9	1677.9	1146.4	654.7	532.9	525.3	529.7	536.9	542.6	544.1	545.4
20°	1880.0	1630.5	970.2	546.1	499.2	499.2	506.8	512.4	512.7	510.9	511.8
22.5°	1870.3	1565.5	799.2	488.3	469.3	474.8	482.2	476.9	454.9	440.5	441.4
25°	1853.9	1487.9	652.8	451.4	441.7	451.1	449.0	408.8	377.3	363.1	363.1
27.5°	1839.5	1396.1	540.3	419.4	414.1	425.6	386.8	350.3	337.1	330.5	328.3
30°	1829.0	1297.2	465.2	388.6	388.0	379.5	335.5	325.5	323.3	317.9	316.1
32.5°	1831.6	1197.0	417.2	361.6	363.8	324.9	311.0	313.2	311.4	305.7	303.2
35°	1852.4	1101.8	385.8	337.1	330.5	293.4	296.6	300.6	300.0	292.2	289.7
37.5°	1889.4	1011.6	365.1	316.7	288.4	277.7	282.7	289.0	287.4	282.1	280.2
40°	1928.4	926.8	348.1	300.6	263.6	267.0	271.4	274.9	276.5	278.0	276.8
42.5°	1966.3	838.2	327.3	284.3	253.2	257.0	258.9	262.3	270.8	276.8	276.5
45°	1988.9	754.9	306.0	261.1	245.0	247.2	246.0	252.9	263.3	273.0	273.3
47.5°	2014.1	690.2	289.0	239.7	237.2	238.8	235.0	241.9	251.3	263.3	264.5
50°	2044.6	651.6	275.5	222.7	226.5	226.5	225.6	231.9	245.0	258.9	261.4
52.5°	2079.1	644.0	264.2	210.5	215.8	215.5	216.5	225.9	240.3	253.8	256.0
55°	2121.2	664.4	252.0	201.4	205.5	206.7	209.9	220.5	232.8	248.2	249.1
57.5°	2170.3	705.9	242.2	194.2	196.0	200.1	205.1	214.9	228.1	245.0	246.0
58°	2178.4	714.7	240.7	193.5	194.2	198.9	204.5	213.9	227.1	245.7	246.6
60°	2178.7	743.9	237.2	190.7	186.9	194.8	201.1	210.5	225.6	247.9	250.1
62.5°	2101.4	743.6	234.7	186.6	179.4	189.1	196.3	207.4	224.0	253.2	257.6
65°	1850.4	675.8	222.7	180.3	173.4	184.1	192.3	205.1	228.4	276.5	279.3
67.5°	1447.4	553.8	200.4	171.5	165.5	179.1	189.8	204.8	233.1	281.8	283.7
70°	957.0	414.4	175.9	161.5	157.4	173.1	191.0	215.5	227.8	270.5	265.5
72.5°	496.6	290.9	156.1	148.9	148.0	167.8	209.2	214.3	222.4	254.5	248.2
75°	260.8	202.0	138.8	135.1	136.7	166.5	246.9	208.6	215.5	243.5	255.4
77.5°	159.6	163.1	124.1	122.5	125.6	162.8	246.6	201.4	205.5	224.0	237.2
80°	106.8	132.3	112.8	113.1	115.3	148.9	221.5	190.1	193.2	211.8	225.3
82.5°	67.5	78.3	102.4	107.7	105.0	122.9	188.2	173.1	177.5	242.2	256.0
85°	34.3	49.0	88.9	103.6	94.5	86.0	152.7	151.7	154.0	174.7	182.5
87.5°	15.8	27.0	69.5	90.4	71.3	53.7	110.9	112.4	121.2	124.1	124.1
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)