

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: P200120

Luminaire Tested: **GAP-AF-02-LED-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-SL2
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12449.3 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 113
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

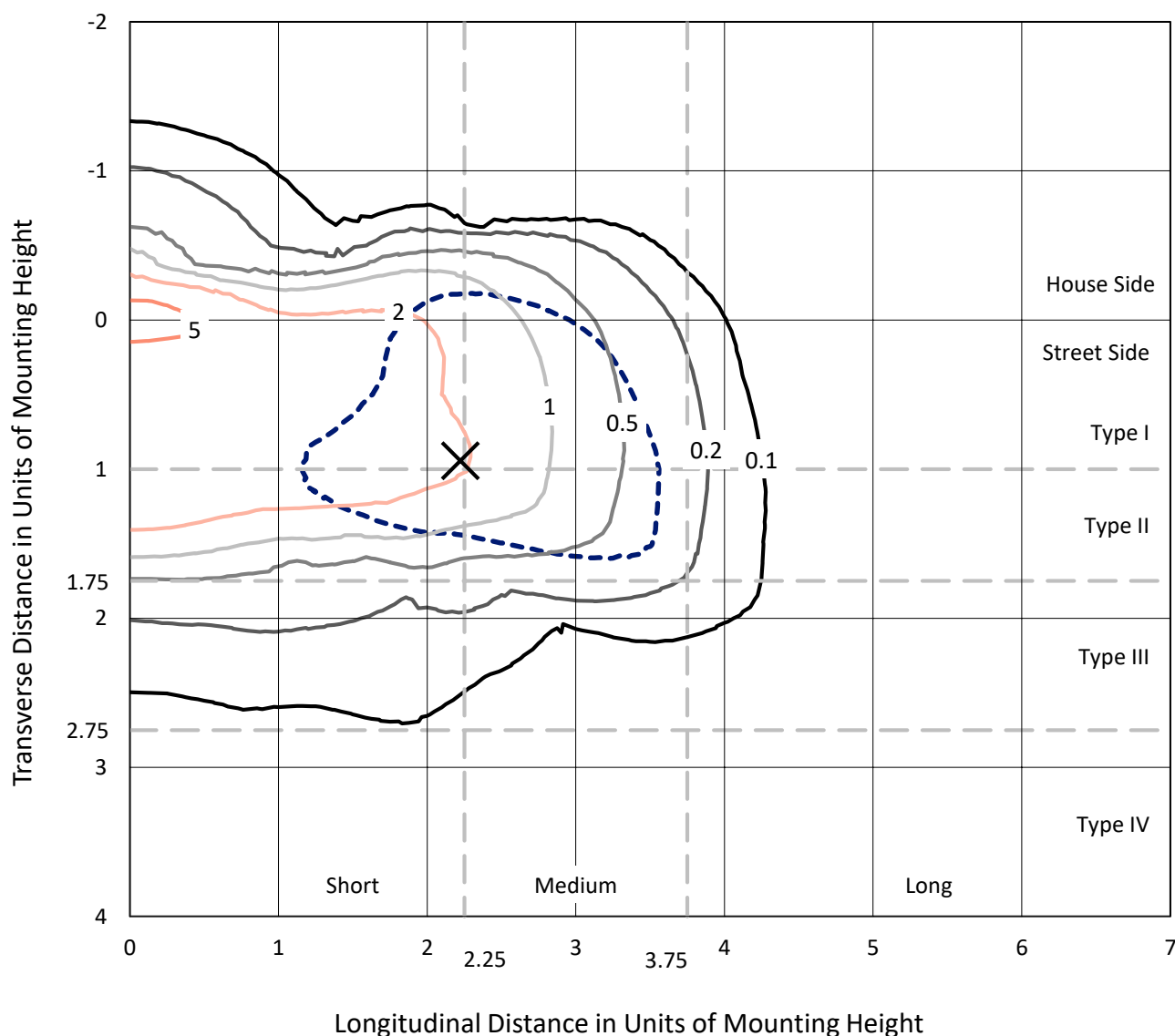


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

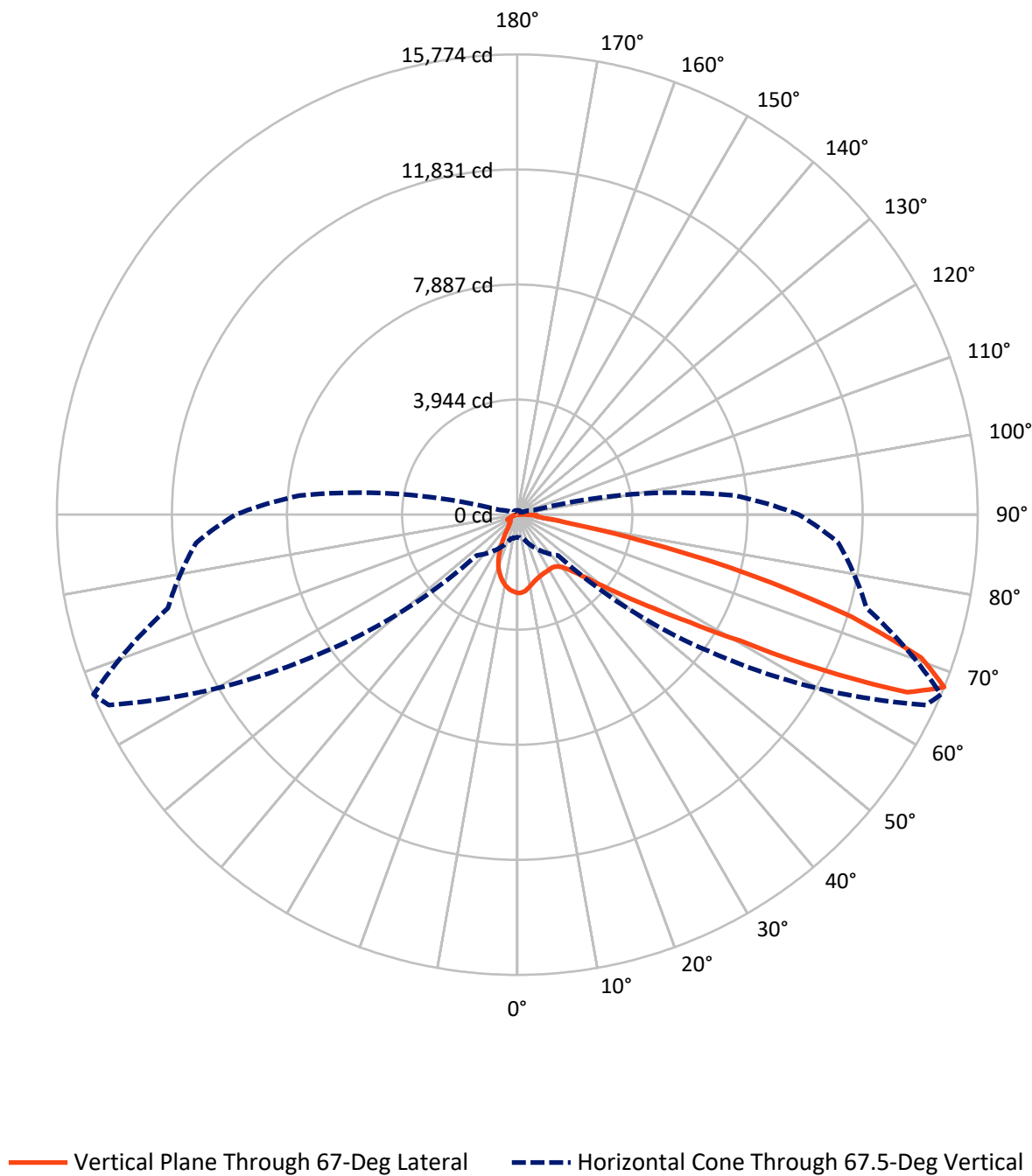


Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2062.7	0.0	2062.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	10386.6	0.0	10386.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	12449.3	0.0	12449.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	1.8
10°-20°	530.1	4.3
20°-30°	718.5	5.8
30°-40°	1021.5	8.2
40°-50°	1709.0	13.7
50°-60°	2703.6	21.7
60°-70°	3444.1	27.7
70°-80°	1804.0	14.5
80°-90°	289.3	2.3
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°	12449.3	100.0
0°-180°	12449.3	100.0

Coefficient of Utilization



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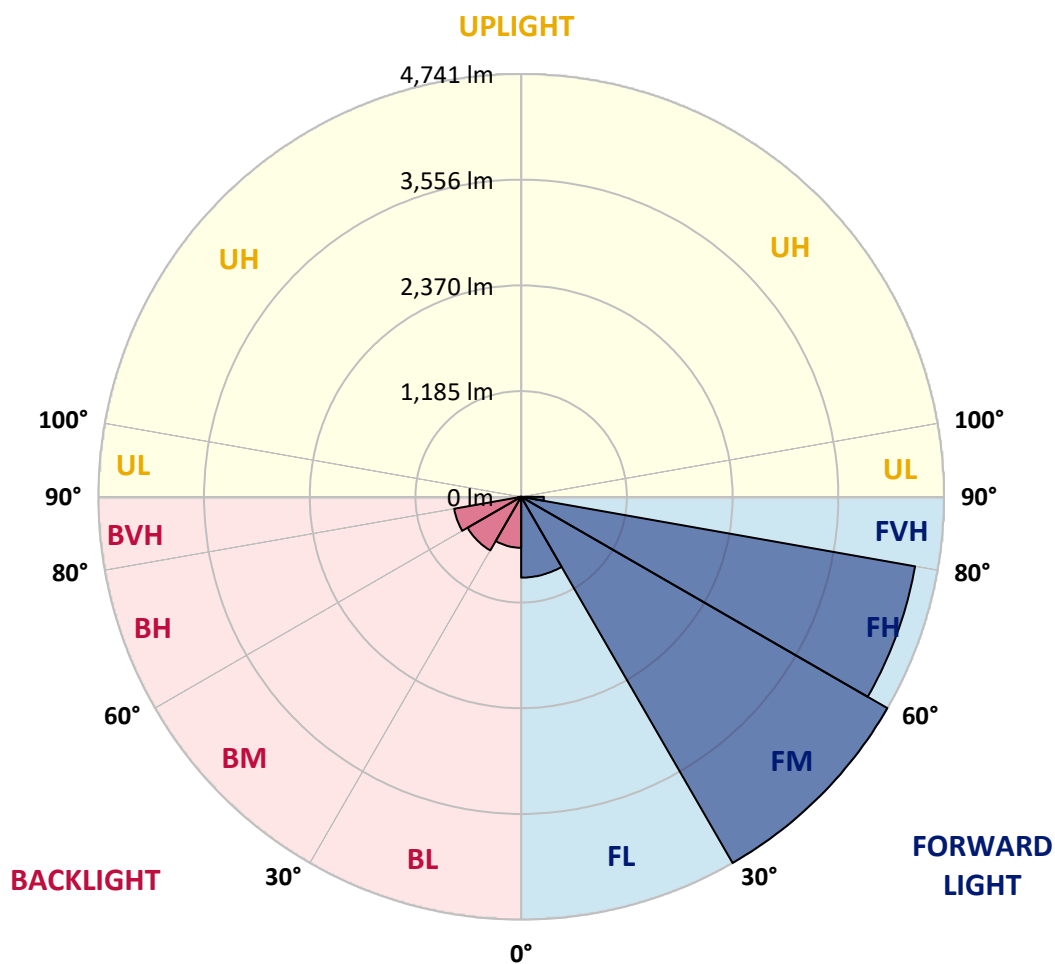
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	906.0	7.3			
FM	(30°-60°)	4741.0	38.1			
FH	(60°-80°)	4485.2	36.0			G2/5000
FVH	(80°-90°)	254.4	2.0			G3/500
BL	(0°-30°)	571.7	4.6	B2/1000		
BM	(30°-60°)	693.1	5.6	B1/1000		
BH	(60°-80°)	762.9	6.1	B2/1000		G2/1000
BVH	(80°-90°)	34.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2
2.5°	2574.8	2579.1	2592.6	2601.2	2639.8	2656.4	2668.1	2679.7	2681.6	2687.1	2681.6
5°	2304.6	2313.9	2339.1	2367.3	2442.2	2501.1	2563.1	2627.6	2639.2	2680.9	2692.6
7.5°	2095.3	2092.9	2113.7	2147.5	2224.2	2305.8	2414.6	2542.9	2568.0	2661.9	2707.3
10°	1942.5	1940.6	1962.7	1997.7	2070.8	2148.1	2270.8	2446.5	2482.1	2631.8	2721.5
12.5°	1829.4	1830.1	1852.2	1890.9	1965.2	2043.1	2167.7	2353.2	2398.6	2596.9	2736.3
15°	1754.6	1759.5	1777.3	1818.4	1890.9	1968.9	2091.0	2283.1	2334.2	2569.2	2752.9
17.5°	1729.4	1737.4	1743.5	1773.6	1835.6	1913.6	2033.3	2231.6	2285.6	2550.2	2767.6
20°	1752.7	1761.9	1750.3	1760.7	1800.0	1868.7	1987.9	2191.1	2246.3	2528.7	2769.4
22.5°	1852.8	1861.4	1827.0	1796.9	1794.5	1836.2	1950.5	2159.1	2216.2	2512.8	2770.0
25°	2029.0	2034.5	1976.9	1906.9	1838.7	1824.5	1924.1	2137.0	2197.8	2498.7	2758.4
27.5°	2245.1	2249.4	2183.1	2080.0	1943.1	1852.2	1914.9	2124.2	2187.4	2486.4	2738.7
30°	2507.9	2528.1	2439.1	2308.9	2109.4	1933.9	1933.3	2117.4	2175.7	2465.5	2700.0
32.5°	2776.8	2785.4	2723.9	2592.0	2333.6	2077.5	1984.8	2122.3	2172.6	2440.4	2650.9
35°	3049.3	3060.4	3020.5	2914.3	2639.8	2288.0	2085.5	2151.2	2191.7	2431.8	2616.5
37.5°	3402.3	3417.1	3361.8	3239.1	3012.5	2573.5	2253.0	2223.6	2250.0	2456.3	2606.1
40°	3960.4	3953.6	3792.2	3609.3	3420.1	2938.8	2492.5	2346.4	2361.8	2535.5	2638.0
42.5°	4609.9	4593.4	4315.2	4028.0	3868.3	3380.9	2809.3	2559.4	2556.4	2691.4	2750.4
45°	5128.1	5114.5	4864.1	4509.9	4382.1	3884.2	3218.8	2876.8	2854.1	2938.8	2957.9
47.5°	5408.6	5409.3	5265.0	4975.8	4972.8	4524.0	3744.9	3336.0	3296.8	3336.7	3316.4
50°	5310.4	5323.3	5308.0	5215.8	5511.8	5362.6	4431.9	3976.3	3897.1	3936.4	3858.5
52.5°	4835.3	4851.9	4942.7	5083.9	5738.3	6376.2	5441.2	4772.0	4679.9	4665.8	4579.2
55°	3993.0	4013.2	4198.6	4582.3	5549.8	7057.0	7033.7	5786.2	5639.4	5506.2	5469.4
57.5°	2752.2	2786.0	3084.3	3654.1	4940.2	7262.6	8930.1	7232.0	6933.7	6468.2	6476.8
60°	1551.4	1590.7	1942.5	2460.0	3709.9	7039.2	10372.8	9421.8	8792.0	7594.8	7658.6
62.5°	986.5	1028.9	1296.0	1709.1	2226.0	5835.9	10964.0	12466.3	11666.3	8983.5	9046.2
65°	798.7	817.1	943.0	1410.8	1616.5	3515.9	10515.2	14974.2	14675.8	10746.1	10453.8
67.5°	779.7	785.8	850.9	1184.3	1550.2	1976.2	8387.4	15443.2	15774.1	12391.9	11040.1
70°	770.5	792.0	958.9	1130.3	1484.5	1666.8	5040.3	14157.6	14680.1	12822.4	10259.8
72.5°	373.9	372.7	482.5	1022.1	1672.3	1728.8	2589.5	11455.1	11979.5	11108.8	8431.0
75°	301.5	275.7	263.4	374.5	1607.9	1785.3	1650.2	7882.1	8261.6	7448.1	5182.7
77.5°	286.1	255.4	233.9	234.6	679.6	1893.4	1397.9	4362.5	4473.1	3364.3	1420.0
80°	237.0	208.7	193.3	218.0	329.1	1803.1	1511.5	1974.4	1811.6	826.3	472.7
82.5°	164.5	149.8	145.5	182.9	263.4	1284.9	1757.6	1060.9	889.6	413.8	291.6
85°	105.0	89.6	99.4	133.2	205.0	593.0	1810.4	827.0	657.6	262.8	164.5
87.5°	48.5	39.3	49.1	73.7	133.8	204.4	1722.6	928.8	677.2	138.7	103.7
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°	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2	2685.2
2.5°	2686.5	2674.8	2665.6	2648.4	2629.4	2611.0	2594.4	2573.5	2567.4	2561.9	2570.5
5°	2695.1	2683.4	2649.6	2596.9	2538.6	2483.9	2429.3	2382.7	2353.8	2337.9	2347.1
7.5°	2708.0	2691.4	2621.4	2524.4	2419.5	2323.7	2224.8	2145.6	2087.3	2059.7	2067.7
10°	2719.6	2687.7	2573.5	2428.1	2274.5	2132.1	1976.2	1847.2	1751.5	1701.2	1713.4
12.5°	2724.5	2673.6	2506.6	2307.7	2097.2	1888.4	1658.8	1466.0	1328.5	1278.2	1267.7
15°	2729.4	2657.6	2433.0	2170.8	1882.8	1587.6	1265.9	1035.0	920.9	895.7	890.2
17.5°	2730.8	2630.0	2349.5	2022.3	1631.8	1229.7	865.6	718.9	719.5	760.1	765.0
20°	2717.8	2588.9	2248.1	1837.4	1331.0	850.3	594.2	569.1	661.8	763.1	775.4
22.5°	2688.3	2534.3	2133.4	1622.0	986.5	559.9	459.8	487.4	607.1	731.2	745.3
25°	2650.9	2468.0	1997.7	1372.1	653.3	400.3	385.6	419.3	500.3	583.2	591.2
27.5°	2599.9	2389.4	1845.4	1086.1	424.2	329.7	339.5	362.2	395.4	432.2	435.9
30°	2534.3	2295.4	1682.8	792.0	320.5	296.6	310.7	322.9	337.1	357.9	359.8
32.5°	2458.8	2205.2	1515.8	547.0	284.3	279.4	290.4	296.6	307.6	320.5	321.7
35°	2395.5	2119.2	1342.6	386.8	268.9	266.5	273.8	276.3	286.7	300.8	302.1
37.5°	2359.3	2049.3	1164.0	311.9	258.5	254.8	259.1	259.1	273.8	294.7	297.8
40°	2361.8	2010.6	985.3	281.8	249.9	245.0	245.6	245.6	264.6	287.3	289.2
42.5°	2428.7	2020.4	827.0	270.2	243.2	237.6	234.6	236.4	252.4	267.1	268.3
45°	2585.8	2089.8	678.4	262.8	236.4	234.6	227.8	227.2	233.3	240.1	240.1
47.5°	2843.7	2226.7	577.7	257.9	230.9	230.3	222.3	214.3	213.7	216.1	216.1
50°	3263.0	2462.4	510.1	252.4	227.2	222.3	213.1	200.7	196.4	198.2	198.2
52.5°	3891.6	2883.0	484.4	245.0	219.2	211.2	200.7	188.4	184.7	185.4	185.4
55°	4716.1	3528.8	480.7	236.4	210.6	197.6	189.0	179.8	175.5	176.8	176.8
57.5°	5723.6	4422.1	546.4	222.9	198.9	184.1	179.2	173.1	170.0	171.9	171.2
60°	6948.4	5590.9	810.4	208.7	187.2	171.9	171.9	166.9	164.5	166.3	165.7
62.5°	8359.1	6933.7	1139.5	198.2	174.9	162.0	164.5	162.0	159.6	160.8	160.2
65°	9610.3	7808.5	1067.0	190.3	162.6	152.8	157.1	155.9	154.1	155.3	154.7
67.5°	9646.5	7484.3	599.1	181.7	151.0	143.6	149.8	149.1	147.9	149.1	148.5
70°	8608.9	6319.7	337.7	165.7	138.7	132.6	141.2	140.6	139.3	141.8	141.2
72.5°	6897.3	4586.0	246.8	146.1	126.4	120.9	130.7	130.1	130.1	133.8	132.0
75°	3968.9	2359.9	197.0	125.2	113.5	109.3	117.8	118.5	119.7	124.6	120.9
77.5°	1131.5	735.5	160.8	106.2	97.6	95.7	104.3	105.6	106.2	111.7	106.8
80°	420.5	338.9	132.6	89.0	79.8	80.4	88.4	90.2	90.8	96.4	90.2
82.5°	268.3	223.5	107.4	68.7	62.6	62.0	71.8	74.3	74.3	74.9	71.2
85°	156.5	133.8	81.0	49.7	44.2	42.4	53.4	57.7	55.9	54.6	52.2
87.5°	105.0	92.1	49.7	27.6	23.9	22.7	31.3	34.4	33.1	31.3	29.5
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)