

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: P192690

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192690
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: GAN-AF-02-LED-U-AFL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7961.7 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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



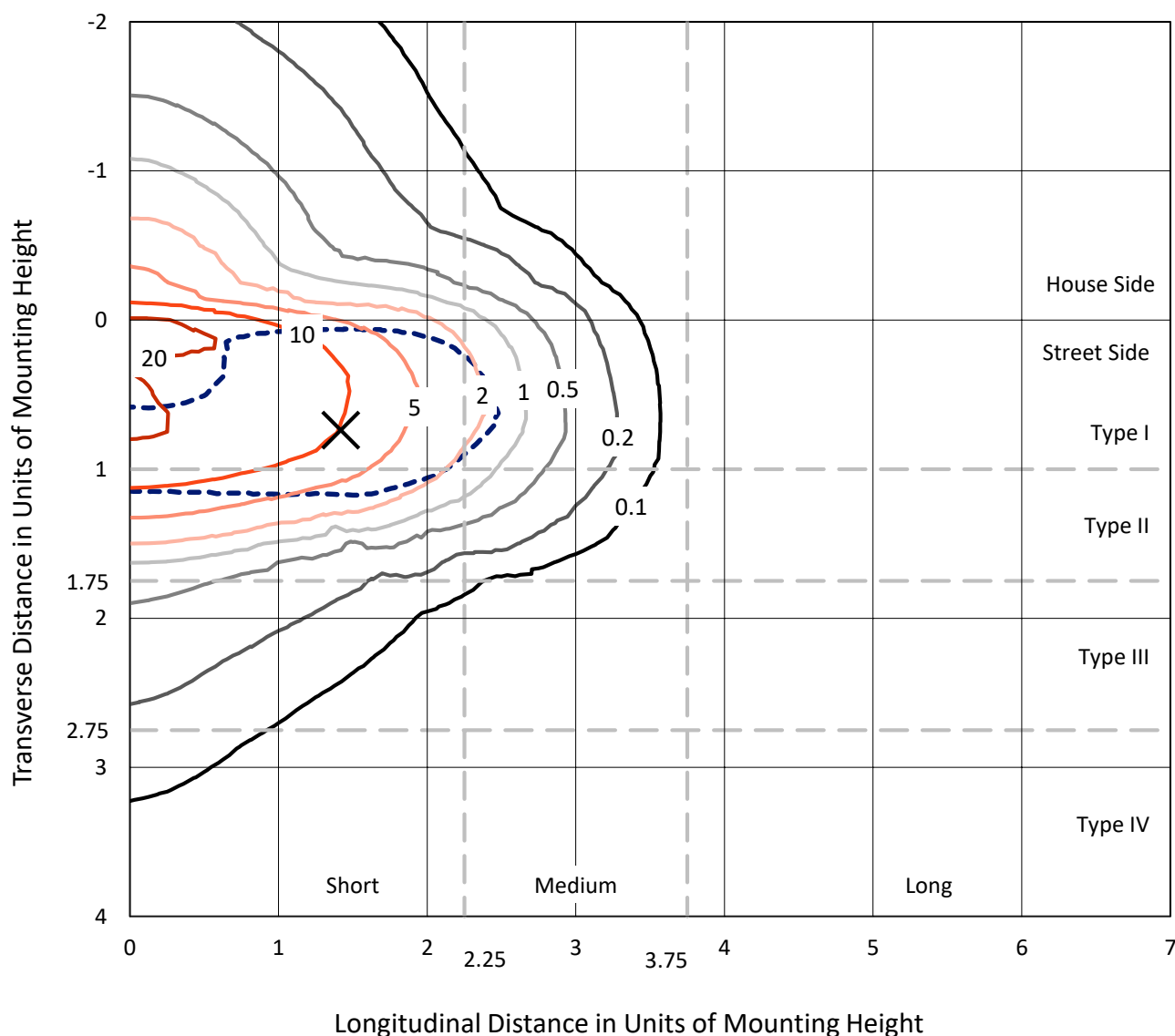
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

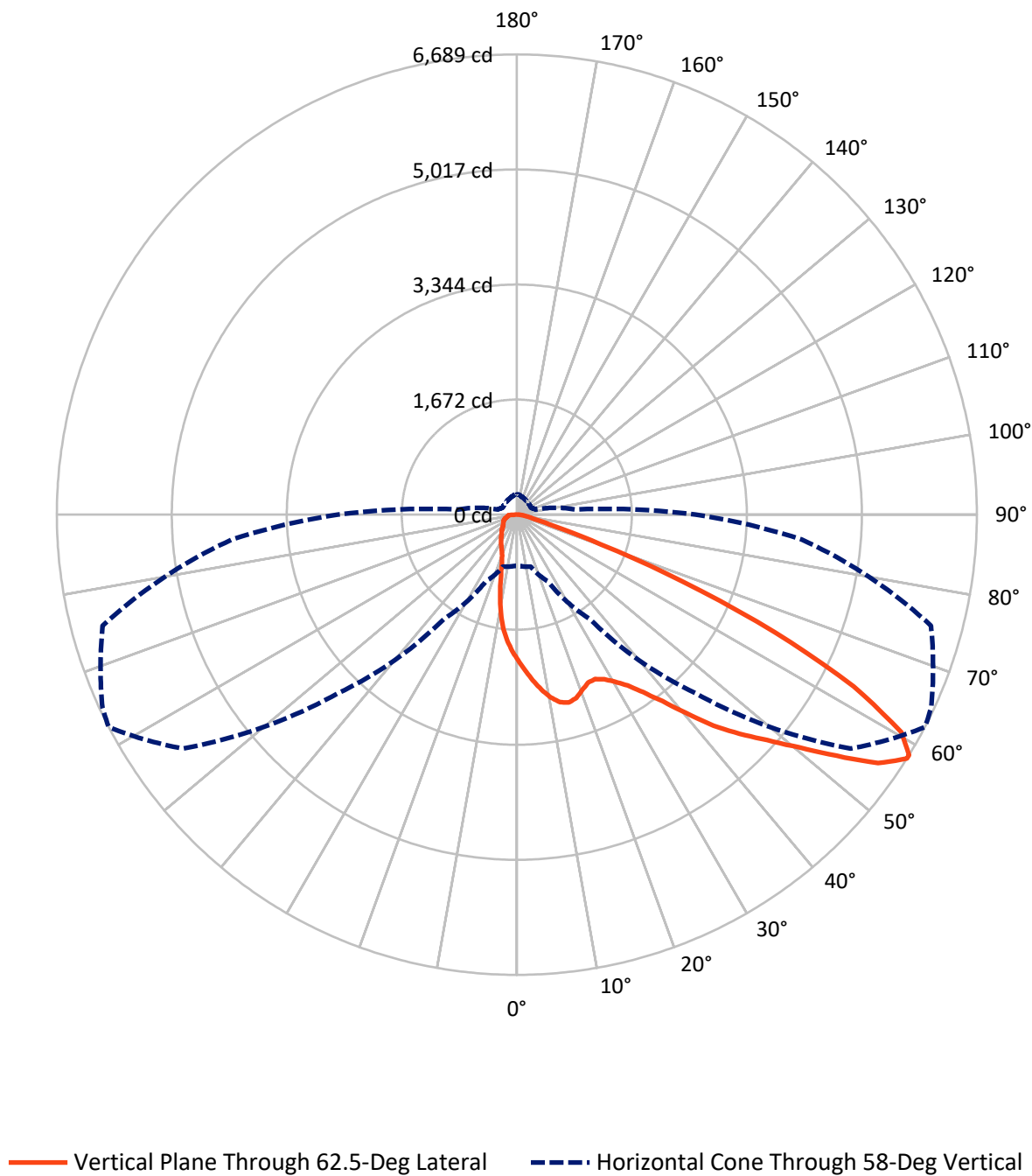


Based on 10 foot mounting height. Maximum calculated value = 25.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1214.2	0.0	1214.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6747.5	0.0	6747.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	7961.7	0.0	7961.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	2.4
10°-20°	483.5	6.1
20°-30°	781.6	9.8
30°-40°	1240.7	15.6
40°-50°	1815.4	22.8
50°-60°	1898.8	23.8
60°-70°	1121.8	14.1
70°-80°	316.0	4.0
80°-90°	114.7	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°	7961.7	100.0
0°-180°	7961.7	100.0

Coefficient of Utilization



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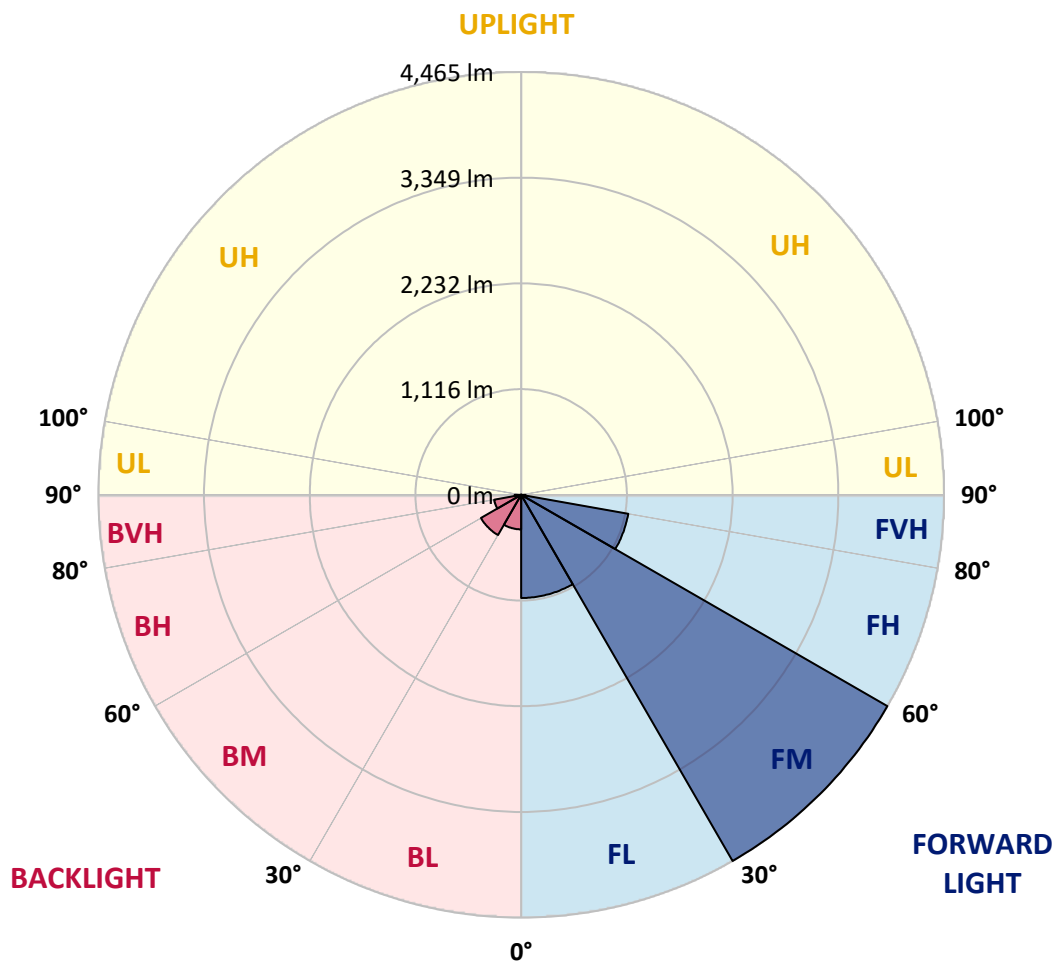
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1089.3	13.7			
FM	(30°-60°)	4464.9	56.1			
FH	(60°-80°)	1148.1	14.4			G1/1800
FVH	(80°-90°)	45.3	0.6			G1/100
BL	(0°-30°)	364.9	4.6	B1/500		
BM	(30°-60°)	490.1	6.2	B1/1000		
BH	(60°-80°)	289.7	3.6	B1/500		G1/500
BVH	(80°-90°)	69.5	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°	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8
2.5°	2416.7	2397.1	2384.8	2373.9	2359.7	2329.3	2288.4	2262.5	2249.4	2204.9	2152.0
5°	2653.6	2636.3	2623.7	2609.0	2583.6	2535.9	2470.0	2417.5	2391.5	2302.3	2196.5
7.5°	2598.0	2605.3	2627.3	2666.0	2699.0	2692.5	2633.7	2567.0	2532.8	2408.8	2248.3
10°	2263.8	2276.1	2314.3	2404.7	2550.8	2700.9	2746.6	2700.5	2666.0	2514.2	2301.5
12.5°	2196.5	2196.2	2199.2	2223.2	2310.2	2521.2	2750.4	2796.8	2776.2	2614.6	2355.9
15°	2224.0	2224.7	2222.5	2232.6	2259.6	2343.2	2635.7	2833.9	2848.6	2715.8	2412.2
17.5°	2296.0	2294.1	2285.4	2285.4	2295.2	2327.8	2500.6	2799.4	2867.0	2805.4	2461.6
20°	2416.7	2408.1	2385.1	2364.2	2353.7	2371.3	2445.1	2720.0	2835.1	2883.8	2502.5
22.5°	2562.9	2556.1	2519.0	2474.0	2437.7	2437.2	2473.6	2650.6	2780.0	2957.6	2537.0
25°	2751.8	2741.0	2685.8	2613.9	2550.1	2525.7	2535.9	2647.3	2749.9	3037.9	2567.8
27.5°	2973.8	2954.0	2888.7	2784.8	2691.0	2642.0	2627.3	2708.3	2777.4	3137.3	2610.5
30°	3243.0	3220.1	3136.5	3001.2	2868.8	2788.2	2757.0	2816.7	2868.0	3258.3	2679.1
32.5°	3549.3	3516.3	3419.6	3270.3	3096.4	2973.4	2922.8	2960.0	3000.8	3404.2	2765.0
35°	3972.5	3933.3	3793.4	3587.5	3391.1	3221.9	3140.9	3168.0	3207.8	3621.6	2889.1
37.5°	4261.2	4243.6	4150.6	3957.2	3743.4	3548.8	3423.6	3439.5	3461.9	3893.5	3048.0
40°	4258.6	4265.7	4267.5	4269.6	4124.0	3937.7	3803.1	3786.6	3782.1	4191.8	3228.7
42.5°	4045.4	4074.5	4169.0	4360.5	4449.0	4363.6	4240.3	4192.6	4169.0	4543.5	3420.4
45°	3718.7	3734.5	3911.5	4285.5	4615.5	4785.3	4692.0	4542.0	4499.3	4866.7	3579.3
47.5°	3550.4	3567.7	3679.0	4087.0	4613.7	5126.1	5180.1	4894.5	4818.0	5147.9	3716.5
50°	3149.6	3185.6	3325.9	3741.2	4445.3	5282.9	5690.4	5314.4	5156.2	5421.6	3854.1
52.5°	2413.6	2469.2	2626.3	3172.9	4018.3	5205.2	6098.7	5823.5	5600.1	5705.0	3972.2
55°	1522.5	1563.7	1695.7	2240.8	3214.5	4801.5	6253.5	6374.1	6175.6	5973.4	4074.5
57.5°	827.7	846.2	895.7	1237.3	2090.9	3908.9	6027.9	6687.6	6605.2	6201.4	4151.8
58°	740.8	753.3	783.9	1072.3	1854.3	3664.8	5927.8	6688.8	6647.6	6234.8	4157.8
60°	549.6	543.2	515.9	611.9	1032.2	2531.7	5322.6	6421.0	6542.2	6275.7	4128.5
62.5°	482.9	467.5	411.7	405.3	502.0	1166.4	4072.6	5500.3	5786.4	6042.5	3950.9
65°	453.7	437.1	365.2	341.9	362.2	493.5	2399.0	4125.2	4483.9	5335.3	3496.4
67.5°	431.9	410.5	335.5	303.6	305.2	326.1	961.6	2598.0	3001.9	4050.9	2719.6
70°	411.0	387.7	310.4	273.7	265.1	258.0	382.4	1300.5	1666.9	2558.8	1734.0
72.5°	388.4	365.6	288.3	250.1	233.2	209.6	249.6	532.0	743.1	1210.6	786.5
75°	355.7	335.2	266.1	229.1	205.1	173.6	188.6	277.8	333.2	482.2	379.0
77.5°	315.6	298.9	241.5	211.9	181.8	141.0	145.1	192.8	213.7	275.9	225.3
80°	226.8	232.8	214.8	190.4	161.9	114.4	111.3	140.6	151.9	177.3	146.6
82.5°	159.3	162.7	177.6	155.5	133.9	90.0	82.1	99.0	105.8	116.6	79.1
85°	109.8	106.1	121.9	108.3	96.7	60.0	56.3	67.0	71.2	72.3	40.9
87.5°	66.0	66.0	70.5	58.1	52.1	31.1	30.4	38.2	40.9	39.0	22.5
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°	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8	2114.8
2.5°	2120.5	2093.9	2037.2	1991.9	1934.6	1874.9	1841.6	1805.9	1781.6	1764.0	1792.1
5°	2136.6	2082.3	1965.2	1854.3	1731.8	1604.3	1507.6	1417.5	1355.0	1315.9	1352.6
7.5°	2162.1	2078.5	1892.2	1702.5	1482.4	1270.2	1080.5	961.6	892.3	858.1	879.5
10°	2191.3	2072.5	1806.3	1496.7	1181.7	914.4	772.7	724.7	709.0	702.5	705.6
12.5°	2215.7	2059.7	1700.9	1247.7	887.4	722.1	681.2	680.1	683.4	684.2	685.4
15°	2232.9	2041.0	1544.6	988.2	709.7	658.0	655.7	662.4	668.8	671.5	672.9
17.5°	2244.6	2002.4	1368.0	781.3	635.9	626.8	632.1	640.7	647.5	649.3	650.8
20°	2243.4	1945.8	1157.7	651.6	595.7	595.7	604.8	611.6	611.9	609.5	610.8
22.5°	2231.8	1868.3	953.8	582.6	560.1	566.5	575.5	569.1	542.9	525.6	526.7
25°	2212.4	1775.6	779.0	538.7	527.1	538.3	535.7	487.8	450.2	433.4	433.4
27.5°	2195.1	1666.1	644.8	500.5	494.2	508.0	461.5	418.0	402.3	394.4	391.8
30°	2182.8	1547.9	555.2	463.8	463.0	452.9	400.4	388.4	385.8	379.4	377.2
32.5°	2185.7	1428.4	497.9	431.6	434.2	387.7	371.2	373.7	371.6	364.8	361.7
35°	2210.5	1314.8	460.4	402.3	394.4	350.1	353.9	358.8	358.1	348.6	345.7
37.5°	2254.7	1207.2	435.6	377.9	344.1	331.4	337.4	344.9	343.1	336.6	334.5
40°	2301.2	1106.0	415.4	358.8	314.5	318.7	324.0	328.0	330.0	331.8	330.3
42.5°	2346.6	1000.3	390.7	339.2	302.2	306.7	308.8	313.0	323.2	330.3	330.0
45°	2373.5	901.0	365.2	311.5	292.4	295.0	293.6	301.8	314.1	325.8	326.1
47.5°	2403.6	823.7	344.9	286.0	283.1	284.9	280.5	288.7	299.9	314.1	315.6
50°	2439.9	777.6	328.8	265.8	270.3	270.3	269.3	276.7	292.4	308.8	311.9
52.5°	2481.2	768.5	315.3	251.2	257.6	257.2	258.3	269.6	286.8	302.9	305.6
55°	2531.4	792.9	300.7	240.4	245.2	246.7	250.4	263.2	277.8	296.2	297.3
57.5°	2589.9	842.4	289.1	231.7	234.0	238.8	244.8	256.4	272.2	292.4	293.6
58°	2599.6	852.9	287.2	231.0	231.7	237.3	244.0	255.3	271.1	293.2	294.4
60°	2600.1	887.8	283.1	227.6	223.1	232.4	240.0	251.2	269.3	295.8	298.4
62.5°	2507.8	887.4	280.0	222.7	214.0	225.7	234.4	247.5	267.3	302.2	307.4
65°	2208.2	806.5	265.8	215.2	206.9	219.7	229.5	244.8	272.6	330.0	333.2
67.5°	1727.2	661.0	239.2	204.8	197.5	213.7	226.5	244.4	278.2	336.3	338.6
70°	1142.0	494.5	210.0	192.8	187.8	206.6	228.0	257.2	271.8	322.8	316.9
72.5°	592.7	347.1	186.3	177.6	176.6	200.2	249.6	255.6	265.4	303.6	296.2
75°	311.2	241.0	165.7	161.1	163.2	198.8	294.7	248.9	257.2	290.5	304.9
77.5°	190.4	194.6	148.0	146.2	150.0	194.2	294.4	240.4	245.2	267.3	283.1
80°	127.5	157.9	134.6	134.9	137.5	177.6	264.3	226.8	230.5	252.7	268.8
82.5°	80.7	93.3	122.3	128.6	125.2	146.6	224.5	206.6	211.9	289.1	305.6
85°	40.9	58.5	106.1	123.7	112.9	102.7	182.3	181.1	183.7	208.4	217.9
87.5°	18.8	32.2	82.8	107.9	85.1	64.1	132.3	134.2	144.8	148.0	148.0
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)