

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: P300362

Luminaire Tested: **GAA-AF-02-LED-U-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300362
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: GAA-AF-02-LED-U-AFL-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9730.1 lumens
Efficiency: N/A
Efficacy: 114.5 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

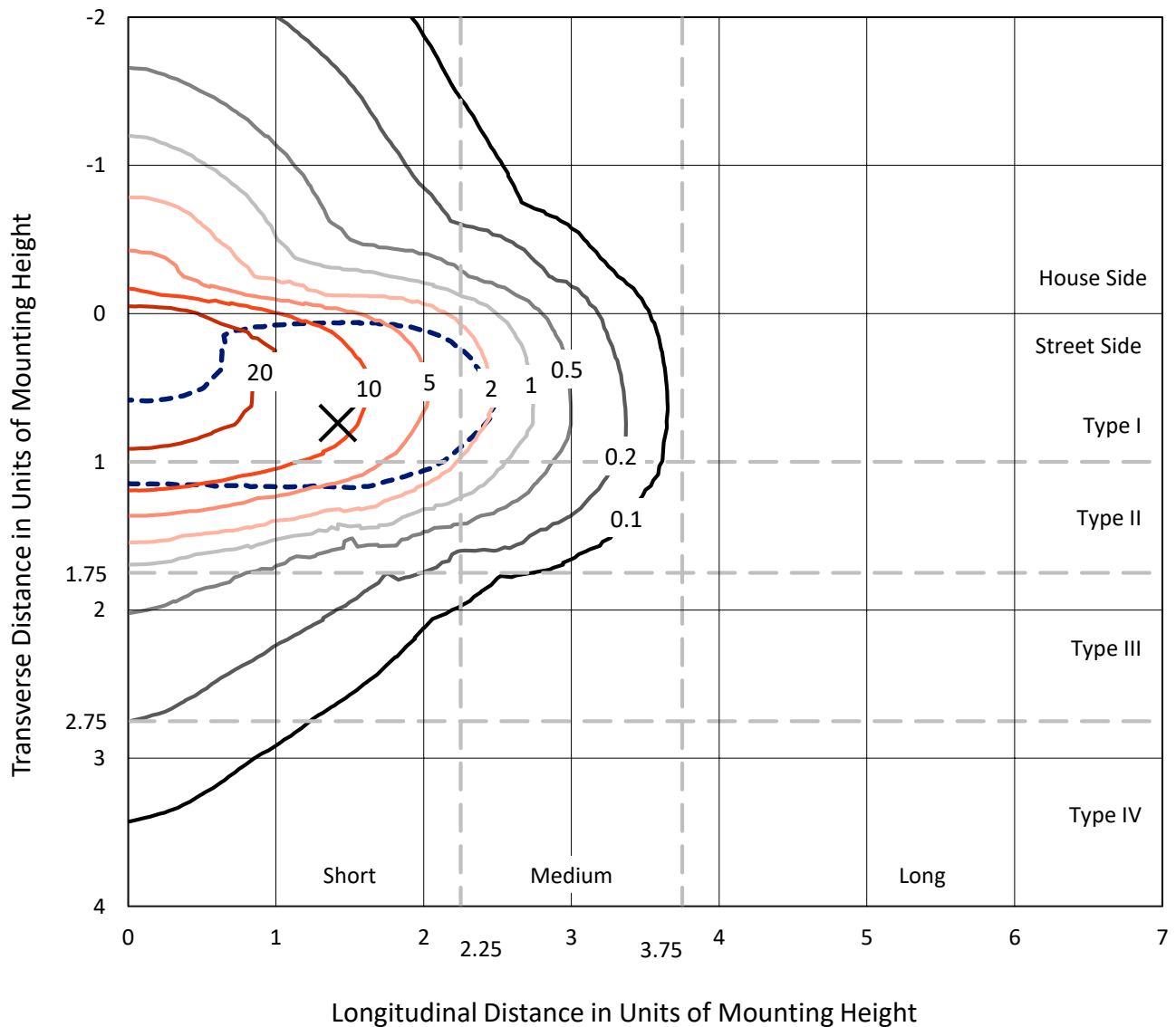
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

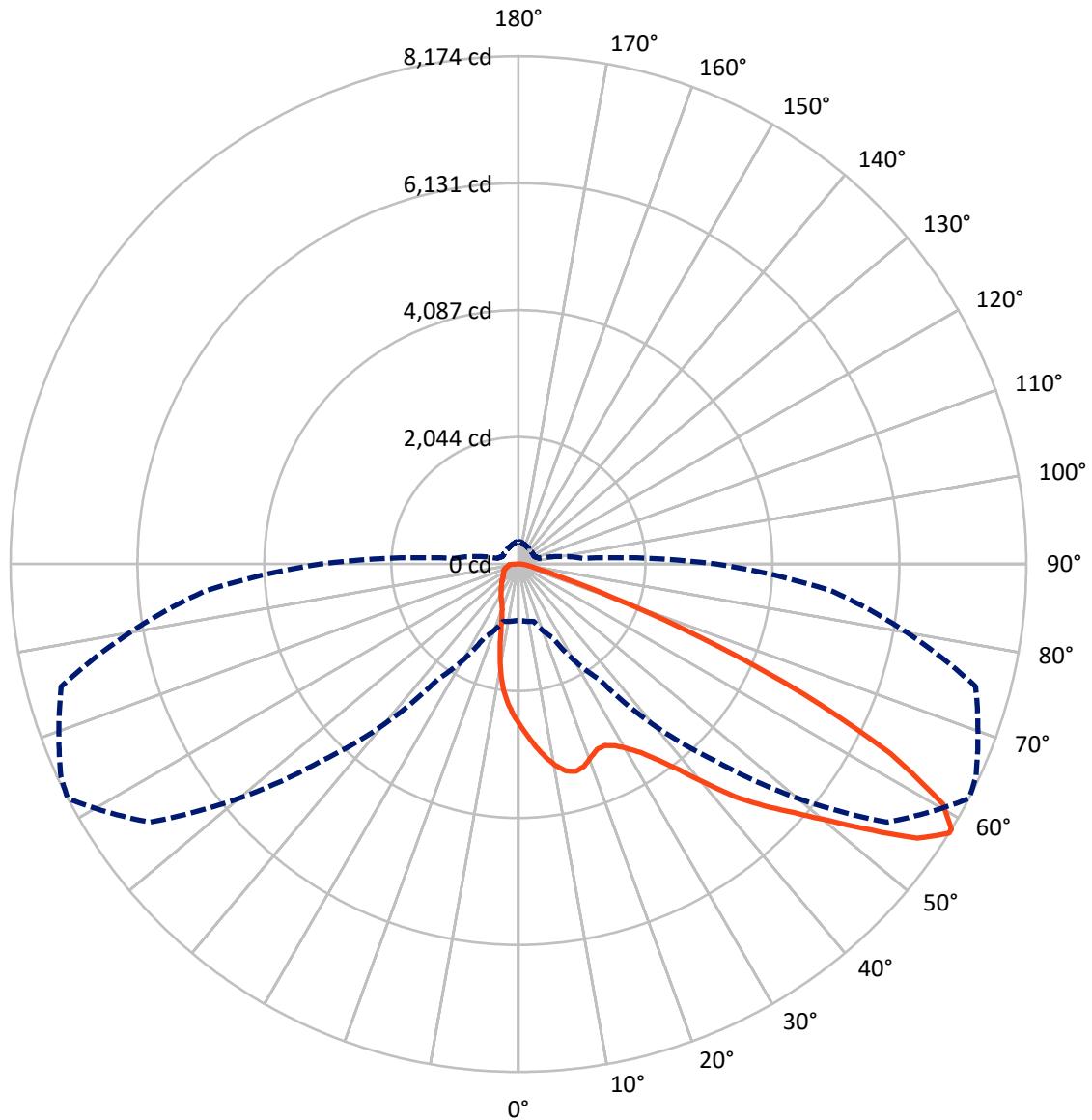
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1483.9	0.0	1483.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	8246.2	0.0	8246.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	9730.1	0.0	9730.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	2.4
10°-20°	590.9	6.1
20°-30°	955.2	9.8
30°-40°	1516.3	15.6
40°-50°	2218.7	22.8
50°-60°	2320.5	23.8
60°-70°	1371.0	14.1
70°-80°	386.2	4.0
80°-90°	140.2	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°	9730.1	100.0
0°-180°	9730.1	100.0

Coefficient of Utilization



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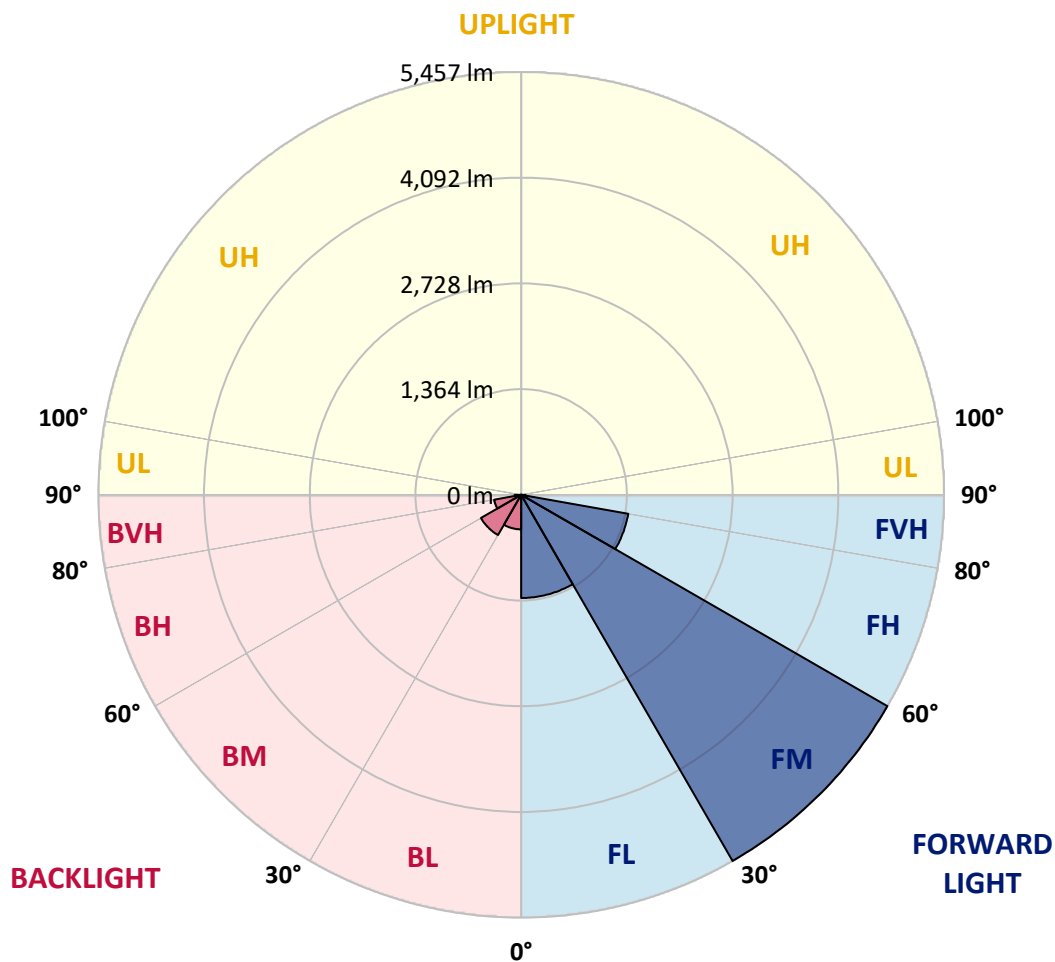
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1331.2	13.7			
FM	(30°-60°)	5456.6	56.1			
FH	(60°-80°)	1403.1	14.4			G1/1800
FVH	(80°-90°)	55.3	0.6			G1/100
BL	(0°-30°)	446.0	4.6	B1/500		
BM	(30°-60°)	598.9	6.2	B1/1000		
BH	(60°-80°)	354.1	3.6	B1/500		G1/500
BVH	(80°-90°)	84.9	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°	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6
2.5°	2953.4	2929.6	2914.5	2901.2	2883.8	2846.7	2796.7	2765.1	2749.1	2694.6	2630.0
5°	3243.0	3221.9	3206.3	3188.5	3157.3	3099.1	3018.5	2954.3	2922.7	2813.7	2684.5
7.5°	3175.2	3183.9	3210.9	3258.1	3298.4	3290.6	3218.7	3137.2	3095.5	2943.8	2747.7
10°	2766.5	2781.6	2828.3	2938.8	3117.5	3300.7	3356.6	3300.3	3258.1	3072.6	2812.8
12.5°	2684.5	2684.0	2687.7	2717.0	2823.3	3081.3	3361.2	3418.0	3392.8	3195.3	2879.2
15°	2717.9	2718.8	2716.1	2728.5	2761.5	2863.6	3221.0	3463.4	3481.3	3319.1	2947.9
17.5°	2805.9	2803.6	2793.1	2793.1	2805.0	2844.8	3056.1	3421.2	3503.7	3428.6	3008.4
20°	2953.4	2942.9	2914.9	2889.3	2876.5	2898.0	2988.3	3324.1	3464.8	3524.3	3058.4
22.5°	3132.1	3123.9	3078.5	3023.5	2979.1	2978.6	3023.1	3239.3	3397.4	3614.6	3100.5
25°	3363.0	3349.8	3282.4	3194.4	3116.5	3086.8	3099.1	3235.2	3360.8	3712.6	3138.1
27.5°	3634.3	3610.0	3530.3	3403.4	3288.8	3228.8	3210.9	3309.9	3394.2	3834.1	3190.3
30°	3963.3	3935.3	3833.1	3667.7	3506.0	3407.5	3369.5	3442.3	3505.1	3982.0	3274.2
32.5°	4337.6	4297.3	4179.1	3996.7	3784.1	3633.8	3572.0	3617.3	3667.3	4160.3	3379.1
35°	4854.9	4806.8	4635.9	4384.3	4144.2	3937.6	3838.6	3871.6	3920.2	4426.0	3530.7
37.5°	5207.7	5186.1	5072.5	4836.1	4574.9	4337.1	4184.1	4203.3	4230.8	4758.2	3725.0
40°	5204.5	5213.2	5215.5	5217.8	5040.0	4812.3	4647.8	4627.6	4622.1	5122.9	3945.8
42.5°	4943.8	4979.5	5095.0	5329.1	5437.2	5332.8	5182.0	5123.8	5095.0	5552.7	4180.0
45°	4544.7	4563.9	4780.2	5237.5	5640.7	5848.2	5734.1	5550.9	5498.6	5947.6	4374.2
47.5°	4339.0	4360.0	4496.1	4994.6	5638.4	6264.7	6330.7	5981.5	5888.1	6291.3	4541.9
50°	3849.2	3893.2	4064.5	4572.2	5432.6	6456.2	6954.3	6494.7	6301.4	6625.7	4710.1
52.5°	2949.8	3017.6	3209.6	3877.6	4910.8	6361.4	7453.2	7116.9	6843.8	6972.1	4854.4
55°	1860.7	1911.1	2072.3	2738.5	3928.4	5867.9	7642.4	7790.0	7547.1	7300.2	4979.5
57.5°	1011.7	1034.1	1094.6	1512.0	2555.3	4777.0	7366.6	8173.0	8072.2	7578.8	5073.9
58°	905.4	920.5	958.1	1310.4	2266.2	4478.7	7244.3	8174.4	8124.0	7619.5	5081.2
60°	671.7	663.9	630.5	747.7	1261.4	3094.1	6504.8	7847.2	7995.2	7669.5	5045.5
62.5°	590.1	571.4	503.1	495.3	613.5	1425.4	4977.2	6722.0	7071.6	7384.5	4828.3
65°	554.4	534.2	446.3	417.9	442.6	603.0	2931.9	5041.4	5479.8	6520.4	4273.0
67.5°	527.8	501.7	410.1	371.1	373.0	398.6	1175.2	3175.2	3668.6	4950.6	3323.6
70°	502.2	473.8	379.4	334.5	323.9	315.2	467.3	1589.4	2037.1	3127.1	2119.1
72.5°	474.7	446.7	352.3	305.6	285.0	256.1	305.1	650.2	908.1	1479.5	961.3
75°	434.8	409.6	325.3	279.9	250.6	212.1	230.5	339.5	407.3	589.2	463.2
77.5°	385.8	365.2	295.1	258.9	222.2	172.3	177.3	235.5	261.2	337.2	275.4
80°	277.2	284.5	262.5	232.8	197.9	139.7	136.1	171.8	185.6	216.7	179.1
82.5°	194.7	198.9	217.2	190.1	163.6	110.0	100.3	121.0	129.2	142.5	96.7
85°	134.2	129.7	148.9	132.4	118.2	73.3	68.7	82.0	87.1	88.4	49.9
87.5°	80.6	80.6	86.1	71.0	63.7	38.0	37.1	46.7	49.9	47.7	27.5
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°	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6	2584.6
2.5°	2591.5	2558.9	2489.8	2434.3	2364.2	2291.4	2250.6	2207.1	2177.3	2155.7	2190.1
5°	2611.2	2544.7	2401.8	2266.2	2116.3	1960.6	1842.3	1732.4	1655.9	1608.2	1653.1
7.5°	2642.3	2540.2	2312.4	2080.6	1811.6	1552.3	1320.5	1175.2	1090.5	1048.8	1074.9
10°	2678.1	2532.8	2207.5	1829.1	1444.2	1117.5	944.3	885.7	866.4	858.6	862.3
12.5°	2707.8	2517.2	2078.8	1524.8	1084.5	882.5	832.5	831.1	835.3	836.2	837.6
15°	2728.9	2494.3	1887.7	1207.8	867.3	804.1	801.4	809.6	817.4	820.6	822.4
17.5°	2743.1	2447.1	1671.9	954.8	777.1	766.1	772.5	783.0	791.3	793.6	795.4
20°	2741.7	2378.0	1414.9	796.3	728.0	728.0	739.0	747.3	747.7	745.0	746.4
22.5°	2727.5	2283.1	1165.6	712.0	684.5	692.3	703.3	695.5	663.4	642.4	643.7
25°	2703.7	2169.9	952.1	658.4	644.2	657.9	654.7	596.1	550.3	529.7	529.7
27.5°	2682.6	2036.2	788.1	611.7	603.9	620.8	564.0	510.9	491.6	482.0	478.8
30°	2667.5	1891.8	678.6	566.8	565.9	553.5	489.3	474.7	471.5	463.7	460.9
32.5°	2671.2	1745.7	608.5	527.4	530.6	473.8	453.6	456.8	454.1	445.8	442.1
35°	2701.4	1606.8	562.6	491.6	482.0	427.9	432.5	438.5	437.6	426.1	422.4
37.5°	2755.5	1475.3	532.4	461.8	420.6	405.0	412.4	421.5	419.2	411.4	408.7
40°	2812.3	1351.6	507.7	438.5	384.4	389.5	395.9	400.9	403.2	405.5	403.7
42.5°	2867.7	1222.4	477.4	414.7	369.3	374.8	377.5	382.6	395.0	403.7	403.2
45°	2900.7	1101.0	446.3	380.7	357.4	360.6	358.8	368.8	384.0	398.2	398.6
47.5°	2937.4	1006.6	421.5	349.6	345.9	348.2	342.7	352.8	366.5	384.0	385.8
50°	2981.8	950.3	401.8	324.8	330.3	330.3	329.0	338.1	357.4	377.5	381.2
52.5°	3032.2	939.3	385.3	307.0	314.8	314.3	315.7	329.4	350.5	370.2	373.4
55°	3093.6	969.1	367.5	293.7	299.6	301.5	306.1	321.6	339.5	362.0	363.3
57.5°	3165.1	1029.5	353.3	283.2	285.9	291.9	299.2	313.4	332.6	357.4	358.8
58°	3177.0	1042.4	351.0	282.2	283.2	290.0	298.3	312.0	331.3	358.3	359.7
60°	3177.5	1085.0	345.9	278.1	272.6	284.1	293.2	307.0	329.0	361.5	364.7
62.5°	3064.8	1084.5	342.3	272.2	261.6	275.8	286.4	302.4	326.7	369.3	375.7
65°	2698.7	985.5	324.8	263.0	252.9	268.5	280.4	299.2	333.1	403.2	407.3
67.5°	2110.8	807.8	292.3	250.2	241.5	261.2	276.7	298.7	340.0	411.0	413.7
70°	1395.6	604.3	256.6	235.5	229.5	252.5	278.6	314.3	332.2	394.5	387.2
72.5°	724.4	424.3	227.7	217.2	215.8	244.7	305.1	312.5	324.4	371.1	362.0
75°	380.3	294.6	202.5	197.0	199.3	242.8	360.1	304.2	314.3	355.1	372.5
77.5°	232.8	237.8	181.0	178.7	183.3	237.3	359.7	293.7	299.6	326.7	345.9
80°	155.8	192.9	164.5	164.9	168.2	217.2	323.0	277.2	281.8	308.8	328.5
82.5°	98.5	114.1	149.4	157.2	153.0	179.1	274.4	252.5	258.9	353.3	373.4
85°	49.9	71.5	129.7	151.2	137.9	125.5	222.7	221.3	224.5	254.7	266.2
87.5°	22.9	39.4	101.3	132.0	104.0	78.3	161.7	164.0	176.9	181.0	181.0
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)