

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: P300429

Luminaire Tested: **GAA-AF-03-LED-U-AFL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300429
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-03-LED-U-AFL-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9988.3 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

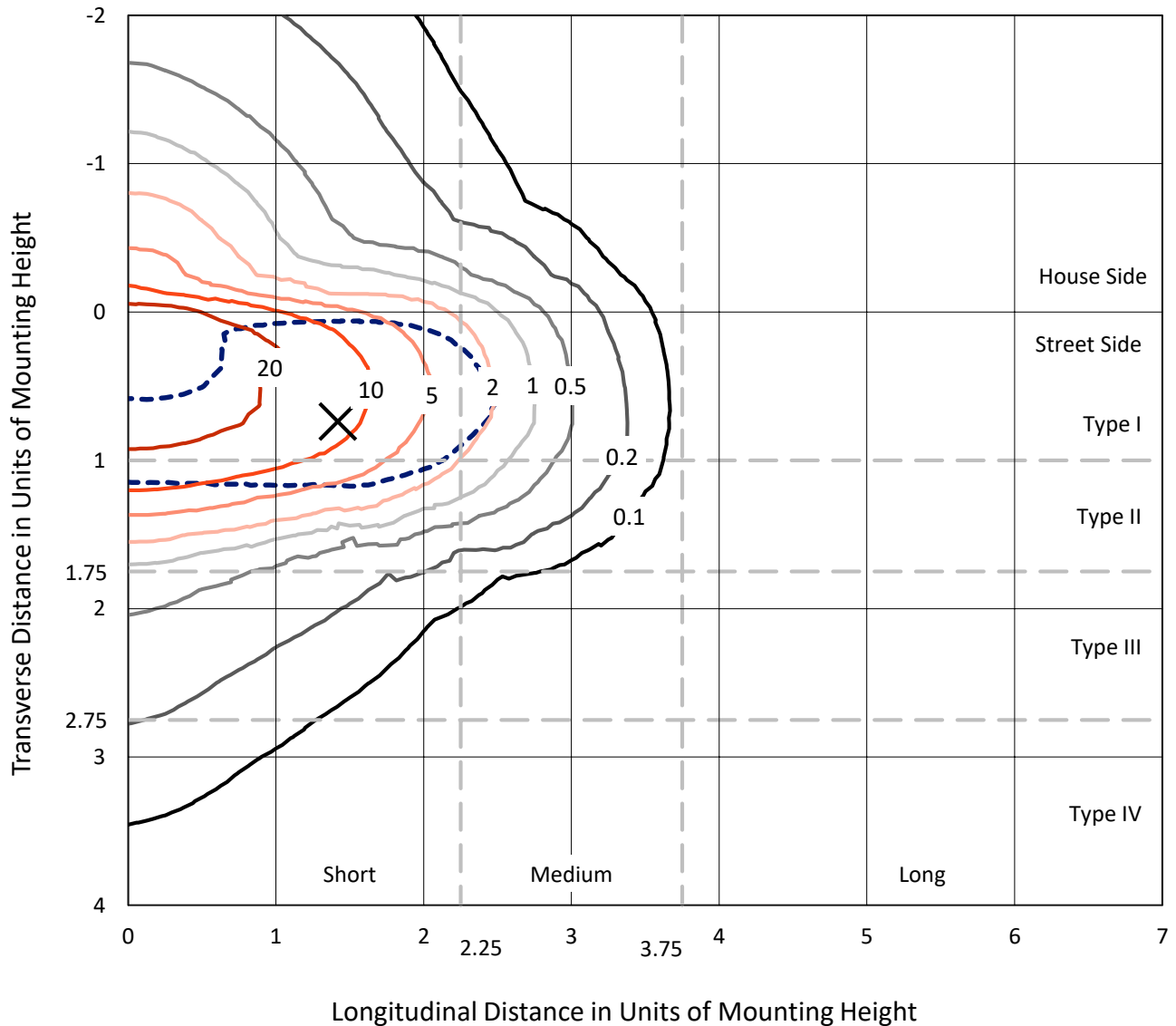
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

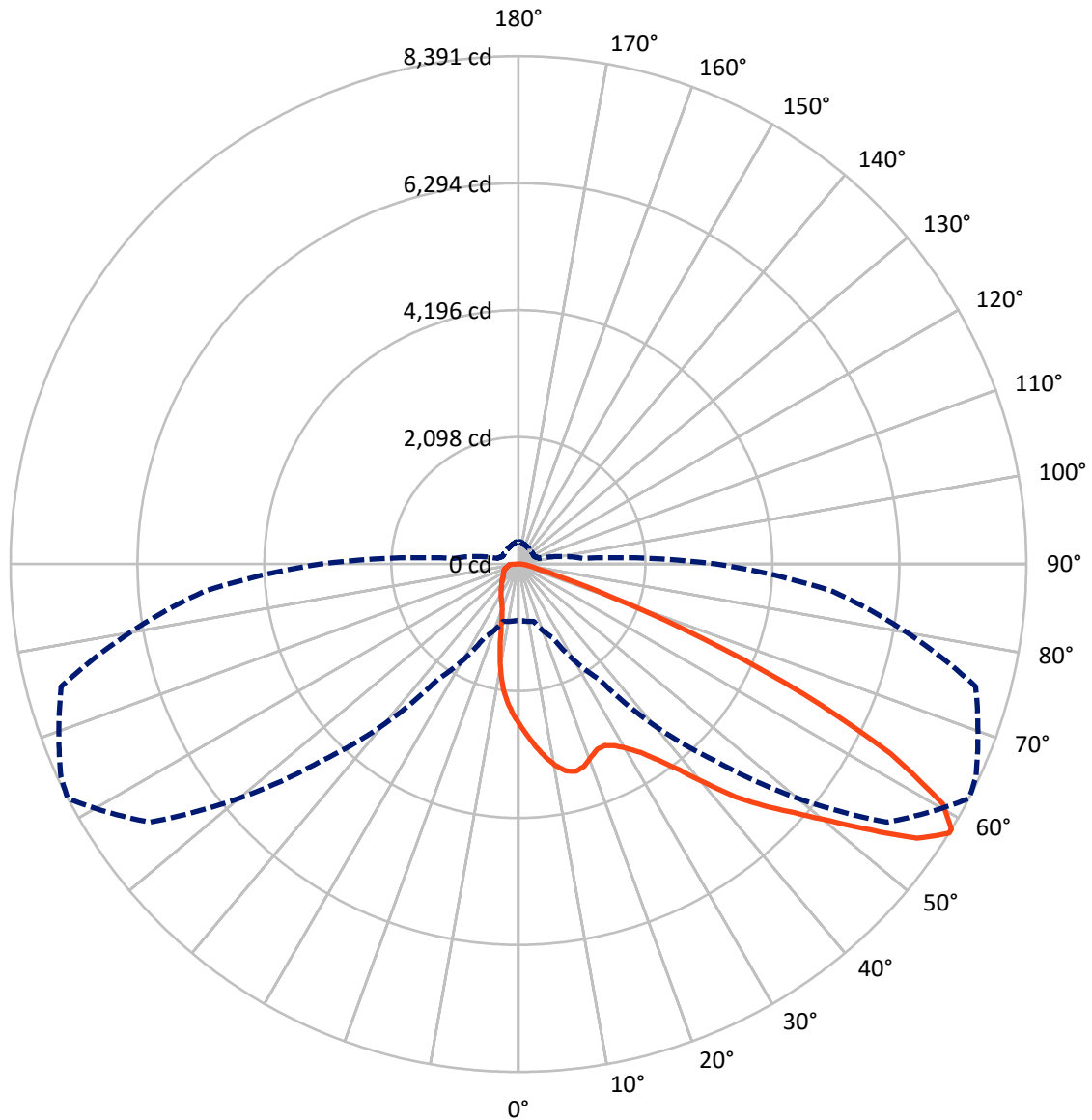
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 32.3 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	1523.3	0.0	1523.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	8465.1	0.0	8465.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	9988.3	0.0	9988.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	2.4
10°-20°	606.5	6.1
20°-30°	980.5	9.8
30°-40°	1556.5	15.6
40°-50°	2277.6	22.8
50°-60°	2382.1	23.8
60°-70°	1407.4	14.1
70°-80°	396.5	4.0
80°-90°	143.9	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°	9988.3	100.0
0°-180°	9988.3	100.0

Coefficient of Utilization



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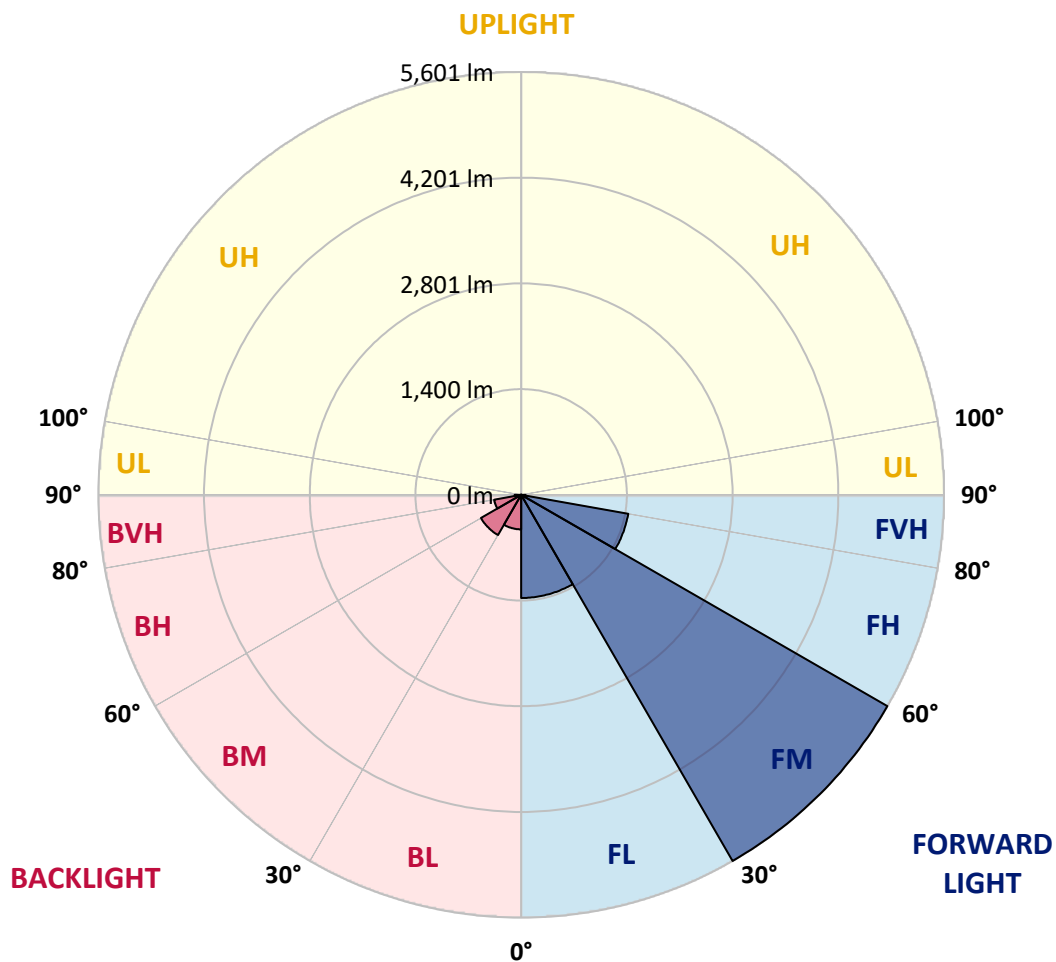
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1366.5	13.7			
FM	(30°-60°)	5601.4	56.1			
FH	(60°-80°)	1440.4	14.4			G1/1800
FVH	(80°-90°)	56.8	0.6			G1/100
BL	(0°-30°)	457.8	4.6	B1/500		
BM	(30°-60°)	614.8	6.2	B1/1000		
BH	(60°-80°)	363.5	3.6	B1/500		G1/500
BVH	(80°-90°)	87.2	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°	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2
2.5°	3031.8	3007.4	2991.8	2978.2	2960.3	2922.2	2871.0	2838.5	2822.0	2766.1	2699.8
5°	3329.1	3307.4	3291.4	3273.1	3241.1	3181.4	3098.6	3032.8	3000.3	2888.4	2755.7
7.5°	3259.5	3268.4	3296.2	3344.6	3386.0	3378.0	3304.1	3220.4	3177.6	3021.9	2820.6
10°	2839.9	2855.4	2903.4	3016.8	3200.2	3388.3	3445.7	3387.9	3344.6	3154.1	2887.4
12.5°	2755.7	2755.3	2759.0	2789.1	2898.2	3163.0	3450.4	3508.7	3482.9	3280.2	2955.6
15°	2790.1	2791.0	2788.2	2800.9	2834.7	2939.6	3306.5	3555.3	3573.7	3407.2	3026.2
17.5°	2880.4	2878.0	2867.2	2867.2	2879.4	2920.3	3137.2	3512.0	3596.7	3519.6	3088.3
20°	3031.8	3021.0	2992.3	2966.0	2952.8	2974.9	3067.6	3412.3	3556.7	3617.9	3139.5
22.5°	3215.3	3206.8	3160.2	3103.8	3058.2	3057.7	3103.3	3325.3	3487.6	3710.5	3182.8
25°	3452.3	3438.7	3369.5	3279.2	3199.3	3168.7	3181.4	3321.1	3450.0	3811.2	3221.4
27.5°	3730.7	3705.8	3624.0	3493.7	3376.1	3314.5	3296.2	3397.7	3484.3	3935.8	3275.0
30°	4068.5	4039.8	3934.9	3765.1	3599.1	3497.9	3458.9	3533.7	3598.1	4087.7	3361.1
32.5°	4452.7	4411.3	4290.0	4102.8	3884.5	3730.3	3666.8	3713.3	3764.6	4270.7	3468.8
35°	4983.7	4934.4	4758.9	4500.7	4254.2	4042.1	3940.5	3974.4	4024.2	4543.5	3624.5
37.5°	5345.9	5323.8	5207.1	4964.5	4696.4	4452.3	4295.2	4314.9	4343.1	4884.5	3823.9
40°	5342.6	5351.5	5353.9	5356.2	5173.8	4940.0	4771.1	4750.4	4744.8	5258.9	4050.6
42.5°	5075.0	5111.7	5230.2	5470.5	5581.5	5474.3	5319.6	5259.8	5230.2	5700.1	4290.9
45°	4665.3	4685.1	4907.1	5376.5	5790.4	6003.4	5886.3	5698.2	5644.6	6105.5	4490.3
47.5°	4454.1	4475.8	4615.5	5127.2	5788.0	6431.0	6498.7	6140.3	6044.4	6458.3	4662.5
50°	3951.3	3996.5	4172.4	4693.5	5576.8	6627.6	7138.8	6667.1	6468.6	6801.6	4835.1
52.5°	3028.1	3097.7	3294.7	3980.5	5041.1	6530.2	7651.0	7305.8	7025.5	7157.2	4983.3
55°	1910.1	1961.8	2127.4	2811.2	4032.7	6023.7	7845.3	7996.7	7747.5	7493.9	5111.7
57.5°	1038.5	1061.6	1123.6	1552.1	2623.1	4903.8	7562.1	8389.9	8286.5	7779.9	5208.6
58°	929.4	944.9	983.5	1345.2	2326.3	4597.6	7436.6	8391.4	8339.6	7821.8	5216.1
60°	689.5	681.5	647.2	767.6	1294.8	3176.2	6677.4	8055.5	8207.5	7873.0	5179.4
62.5°	605.8	586.5	516.4	508.4	629.8	1463.2	5109.3	6900.4	7259.2	7580.5	4956.5
65°	569.1	548.4	458.1	429.0	454.3	619.0	3009.7	5175.2	5625.3	6693.4	4386.4
67.5°	541.8	515.0	421.0	381.0	382.9	409.2	1206.4	3259.5	3766.0	5082.0	3411.9
70°	515.5	486.3	389.4	343.3	332.5	323.6	479.7	1631.6	2091.1	3210.1	2175.3
72.5°	487.3	458.6	361.7	313.7	292.6	262.9	313.2	667.4	932.2	1518.7	986.8
75°	446.4	420.5	333.9	287.4	257.3	217.8	236.6	348.5	418.1	604.9	475.5
77.5°	396.0	374.9	302.9	265.7	228.1	176.8	182.0	241.8	268.1	346.2	282.7
80°	284.6	292.1	269.5	238.9	203.2	143.5	139.7	176.4	190.5	222.5	183.9
82.5°	199.9	204.1	222.9	195.2	167.9	112.9	103.0	124.2	132.6	146.3	99.2
85°	137.8	133.1	152.9	135.9	121.3	75.3	70.6	84.2	89.4	90.8	51.3
87.5°	82.8	82.8	88.4	72.9	65.4	39.0	38.1	48.0	51.3	48.9	28.2
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°	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2
2.5°	2660.3	2626.9	2555.8	2498.9	2427.0	2352.2	2310.3	2265.6	2235.1	2213.0	2248.2
5°	2680.5	2612.3	2465.5	2326.3	2172.5	2012.6	1891.2	1778.4	1699.8	1650.9	1697.0
7.5°	2712.5	2607.6	2373.8	2135.8	1859.7	1593.5	1355.5	1206.4	1119.4	1076.6	1103.4
10°	2749.1	2600.0	2266.1	1877.6	1482.5	1147.2	969.4	909.2	889.4	881.4	885.2
12.5°	2779.7	2584.1	2133.9	1565.3	1113.3	905.9	854.6	853.2	857.4	858.4	859.8
15°	2801.4	2560.5	1937.8	1239.8	890.4	825.4	822.6	831.1	839.1	842.4	844.3
17.5°	2815.9	2512.1	1716.3	980.2	797.7	786.4	793.0	803.8	812.3	814.6	816.5
20°	2814.5	2441.1	1452.4	817.5	747.4	747.4	758.7	767.1	767.6	764.8	766.2
22.5°	2799.9	2343.7	1196.5	730.9	702.7	710.7	722.0	714.0	681.1	659.4	660.8
25°	2775.5	2227.5	977.4	675.9	661.3	675.4	672.1	611.9	564.9	543.7	543.7
27.5°	2753.8	2090.2	809.0	627.9	619.9	637.3	579.0	524.4	504.7	494.8	491.5
30°	2738.3	1942.0	696.6	581.8	580.9	568.2	502.3	487.3	484.0	476.0	473.2
32.5°	2742.1	1792.0	624.6	541.4	544.7	486.3	465.6	468.9	466.1	457.6	453.9
35°	2773.1	1649.5	577.6	504.7	494.8	439.3	444.0	450.1	449.2	437.4	433.7
37.5°	2828.6	1514.5	546.5	474.1	431.8	415.8	423.3	432.7	430.4	422.4	419.5
40°	2887.0	1387.5	521.1	450.1	394.6	399.8	406.4	411.5	413.9	416.3	414.4
42.5°	2943.9	1254.9	490.1	425.7	379.1	384.7	387.6	392.7	405.4	414.4	413.9
45°	2977.7	1130.2	458.1	390.9	366.9	370.2	368.3	378.6	394.1	408.7	409.2
47.5°	3015.4	1033.3	432.7	358.9	355.1	357.5	351.8	362.2	376.3	394.1	396.0
50°	3061.0	975.5	412.5	333.5	339.1	339.1	337.7	347.1	366.9	387.6	391.3
52.5°	3112.7	964.2	395.6	315.1	323.1	322.7	324.1	338.2	359.8	380.0	383.3
55°	3175.7	994.8	377.2	301.5	307.6	309.5	314.2	330.2	348.5	371.6	373.0
57.5°	3249.1	1056.9	362.6	290.7	293.5	299.6	307.1	321.7	341.5	366.9	368.3
58°	3261.3	1070.0	360.3	289.7	290.7	297.7	306.2	320.3	340.1	367.8	369.2
60°	3261.8	1113.8	355.1	285.5	279.9	291.6	301.0	315.1	337.7	371.1	374.4
62.5°	3146.1	1113.3	351.3	279.4	268.6	283.1	294.0	310.4	335.4	379.1	385.7
65°	2770.3	1011.7	333.5	270.0	259.6	275.6	287.8	307.1	341.9	413.9	418.1
67.5°	2166.9	829.2	300.1	256.8	247.9	268.1	284.1	306.7	349.0	421.9	424.7
70°	1432.7	620.4	263.4	241.8	235.6	259.2	286.0	322.7	341.0	405.0	397.4
72.5°	743.6	435.5	233.8	222.9	221.5	251.2	313.2	320.8	333.0	381.0	371.6
75°	390.4	302.4	207.9	202.2	204.6	249.3	369.7	312.3	322.7	364.5	382.4
77.5°	238.9	244.1	185.8	183.4	188.1	243.6	369.2	301.5	307.6	335.4	355.1
80°	159.9	198.0	168.9	169.3	172.6	222.9	331.6	284.6	289.3	317.0	337.2
82.5°	101.1	117.1	153.3	161.3	157.1	183.9	281.7	259.2	265.7	362.6	383.3
85°	51.3	73.4	133.1	155.2	141.6	128.9	228.6	227.2	230.5	261.5	273.3
87.5°	23.5	40.4	103.9	135.5	106.8	80.4	166.0	168.4	181.6	185.8	185.8
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)