

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: P200252

Luminaire Tested: **GAP-AF-02-LED-U-AFL-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200252
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-02-LED-U-AFL-7050-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8397 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

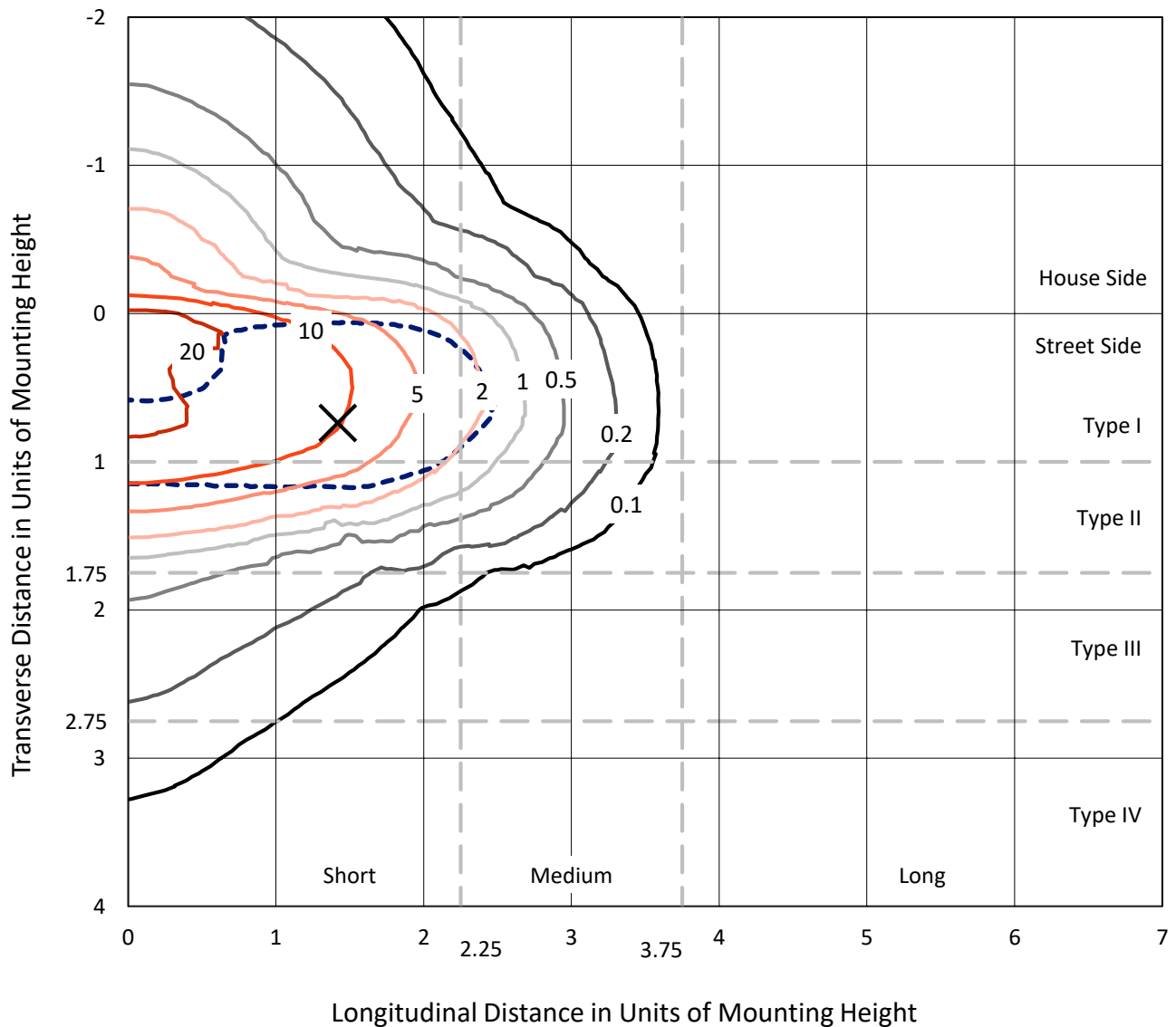
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

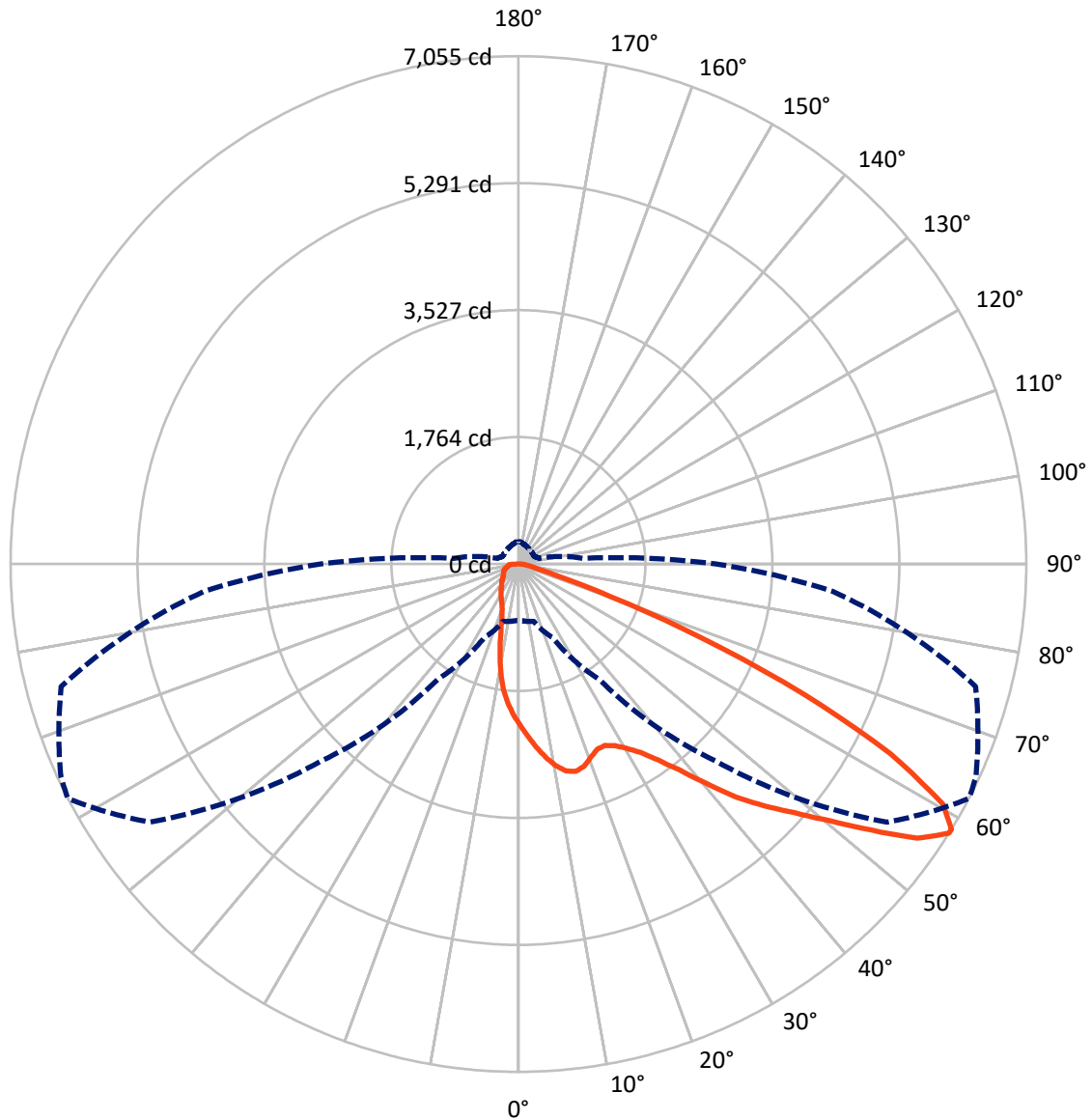
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.2 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	1280.6	0.0	1280.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7116.4	0.0	7116.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	8397.0	0.0	8397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	2.4
10°-20°	509.9	6.1
20°-30°	824.3	9.8
30°-40°	1308.6	15.6
40°-50°	1914.7	22.8
50°-60°	2002.6	23.8
60°-70°	1183.1	14.1
70°-80°	333.3	4.0
80°-90°	121.0	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°	8397.0	100.0
0°-180°	8397.0	100.0

Coefficient of Utilization



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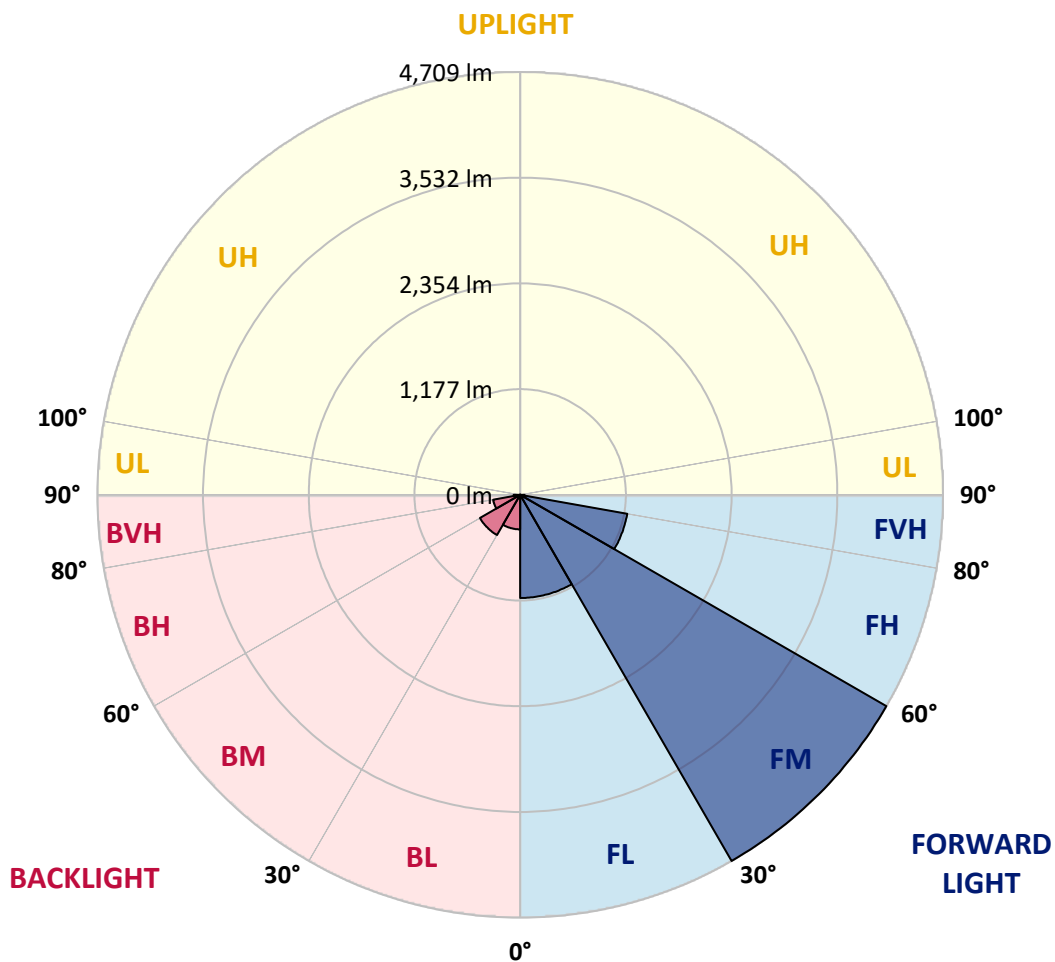
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1148.8	13.7			
FM	(30°-60°)	4709.0	56.1			
FH	(60°-80°)	1210.9	14.4			G1/1800
FVH	(80°-90°)	47.7	0.6			G1/100
BL	(0°-30°)	384.9	4.6	B1/500		
BM	(30°-60°)	516.9	6.2	B1/1000		
BH	(60°-80°)	305.6	3.6	B1/500		G1/500
BVH	(80°-90°)	73.3	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°	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5
2.5°	2548.8	2528.2	2515.2	2503.7	2488.7	2456.7	2413.6	2386.3	2372.4	2325.4	2269.6
5°	2798.7	2780.5	2767.1	2751.6	2724.8	2674.5	2604.9	2549.6	2522.3	2428.2	2316.7
7.5°	2740.2	2747.7	2771.0	2811.7	2846.5	2839.8	2777.7	2707.4	2671.4	2540.5	2371.3
10°	2387.5	2400.5	2440.8	2536.1	2690.4	2848.5	2896.8	2848.1	2811.7	2651.6	2427.4
12.5°	2316.7	2316.3	2319.5	2344.8	2436.5	2659.1	2900.7	2949.7	2928.0	2757.6	2484.7
15°	2345.6	2346.3	2344.0	2354.6	2383.1	2471.3	2779.7	2988.9	3004.3	2864.3	2544.0
17.5°	2421.5	2419.5	2410.4	2410.4	2420.7	2455.1	2637.4	2952.5	3023.7	2958.8	2596.2
20°	2548.8	2539.7	2515.6	2493.4	2482.4	2501.0	2578.8	2868.7	2990.1	3041.5	2639.3
22.5°	2703.0	2695.9	2656.7	2609.3	2570.9	2570.5	2608.9	2795.5	2931.9	3119.4	2675.7
25°	2902.3	2890.8	2832.7	2756.8	2689.6	2663.9	2674.5	2792.0	2900.3	3204.0	2708.1
27.5°	3136.4	3115.4	3046.6	2937.1	2838.2	2786.4	2771.0	2856.4	2929.2	3308.8	2753.2
30°	3420.3	3396.2	3308.0	3165.2	3025.7	2940.6	2907.8	2970.7	3024.9	3436.5	2825.6
32.5°	3743.3	3708.5	3606.5	3449.1	3265.7	3136.0	3082.6	3121.7	3164.8	3590.3	2916.1
35°	4189.7	4148.2	4000.7	3783.7	3576.5	3398.1	3312.7	3341.2	3383.1	3819.6	3047.0
37.5°	4494.2	4475.6	4377.6	4173.5	3948.1	3742.9	3610.9	3627.5	3651.2	4106.3	3214.7
40°	4491.4	4498.9	4500.9	4502.9	4349.5	4153.0	4011.0	3993.6	3988.9	4421.0	3405.2
42.5°	4266.4	4297.3	4396.9	4599.0	4692.3	4602.1	4472.1	4421.8	4396.9	4791.9	3607.3
45°	3922.0	3938.7	4125.3	4519.9	4867.9	5047.0	4948.5	4790.4	4745.3	5132.8	3775.0
47.5°	3744.5	3762.7	3880.1	4310.3	4865.9	5406.4	5463.3	5162.0	5081.4	5429.3	3919.7
50°	3321.8	3359.8	3507.7	3945.8	4688.3	5571.7	6001.5	5604.9	5438.0	5718.0	4064.8
52.5°	2545.6	2604.2	2769.8	3346.3	4238.0	5489.8	6432.1	6141.9	5906.2	6016.9	4189.3
55°	1605.7	1649.2	1788.4	2363.3	3390.2	5064.0	6595.4	6722.7	6513.1	6300.0	4297.3
57.5°	873.1	892.4	944.6	1304.8	2205.2	4122.5	6357.4	7053.3	6966.3	6540.4	4378.7
58°	781.3	794.4	826.8	1130.9	1955.7	3865.1	6251.8	7054.5	7011.0	6575.6	4385.1
60°	579.7	572.9	544.1	645.3	1088.6	2670.2	5613.6	6772.1	6899.9	6618.7	4354.2
62.5°	509.3	493.1	434.2	427.4	529.5	1230.1	4295.3	5801.0	6102.7	6372.8	4166.8
65°	478.4	461.0	385.1	360.6	382.0	520.4	2530.2	4350.7	4729.1	5627.0	3687.6
67.5°	455.5	433.0	353.9	320.3	321.9	344.0	1014.2	2740.2	3166.0	4272.4	2868.3
70°	433.4	408.9	327.4	288.6	279.6	272.0	403.3	1371.7	1758.0	2698.7	1828.8
72.5°	409.6	385.5	304.1	263.7	245.9	221.0	263.3	561.1	783.7	1276.8	829.6
75°	375.2	353.5	280.7	241.6	216.3	183.1	198.9	293.0	351.5	508.5	399.8
77.5°	332.9	315.1	254.6	223.4	191.8	148.7	153.0	203.2	225.4	291.0	237.6
80°	239.2	245.5	226.6	200.9	170.8	120.6	117.4	148.3	160.1	187.0	154.6
82.5°	168.0	171.6	187.4	164.1	141.2	94.9	86.6	104.4	111.5	123.0	83.4
85°	115.9	111.9	128.5	114.3	102.0	63.3	59.3	70.8	75.1	76.3	43.1
87.5°	69.6	69.6	74.3	61.3	55.0	32.8	32.0	40.3	43.1	41.1	23.7
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°	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5	2230.5
2.5°	2236.4	2208.3	2148.6	2100.8	2040.3	1977.4	1942.2	1904.7	1879.0	1860.4	1890.0
5°	2253.4	2196.1	2072.7	1955.7	1826.4	1691.9	1589.9	1495.0	1429.0	1387.9	1426.6
7.5°	2280.3	2192.1	1995.6	1795.5	1563.4	1339.6	1139.6	1014.2	941.1	905.1	927.6
10°	2311.2	2185.8	1905.1	1578.5	1246.3	964.4	814.9	764.3	747.7	741.0	744.2
12.5°	2336.9	2172.4	1794.0	1315.9	935.9	761.6	718.5	717.3	720.8	721.6	722.8
15°	2355.0	2152.6	1629.1	1042.3	748.5	693.9	691.6	698.7	705.4	708.2	709.8
17.5°	2367.3	2111.9	1442.8	824.0	670.6	661.1	666.7	675.8	682.9	684.8	686.4
20°	2366.1	2052.2	1221.0	687.2	628.3	628.3	637.8	644.9	645.3	642.9	644.1
22.5°	2353.9	1970.3	1005.9	614.5	590.7	597.5	607.0	600.2	572.5	554.4	555.5
25°	2333.3	1872.6	821.7	568.2	555.9	567.8	565.0	514.4	474.9	457.1	457.1
27.5°	2315.1	1757.2	680.1	527.9	521.1	535.8	486.7	440.9	424.3	416.0	413.2
30°	2302.1	1632.6	585.6	489.1	488.3	477.7	422.3	409.6	406.9	400.2	397.8
32.5°	2305.2	1506.5	525.1	455.1	457.9	408.9	391.5	394.2	391.8	384.7	381.6
35°	2331.3	1386.7	485.6	424.3	416.0	369.3	373.3	378.4	377.6	367.7	364.6
37.5°	2378.0	1273.2	459.5	398.6	363.0	349.5	355.9	363.8	361.8	355.1	352.7
40°	2427.0	1166.5	438.1	378.4	331.7	336.1	341.6	346.0	348.0	349.9	348.4
42.5°	2474.9	1054.9	412.0	357.8	318.7	323.4	325.8	330.2	340.8	348.4	348.0
45°	2503.3	950.2	385.1	328.6	308.4	311.2	309.6	318.3	331.4	343.6	344.0
47.5°	2535.0	868.7	363.8	301.7	298.5	300.5	295.8	304.5	316.3	331.4	332.9
50°	2573.3	820.1	346.8	280.3	285.1	285.1	283.9	291.8	308.4	325.8	329.0
52.5°	2616.8	810.6	332.5	264.9	271.6	271.2	272.4	284.3	302.5	319.5	322.3
55°	2669.8	836.3	317.1	253.5	258.6	260.2	264.1	277.6	293.0	312.4	313.6
57.5°	2731.5	888.5	304.9	244.4	246.7	251.9	258.2	270.5	287.1	308.4	309.6
58°	2741.8	899.6	302.9	243.6	244.4	250.3	257.4	269.3	285.9	309.2	310.4
60°	2742.1	936.3	298.5	240.0	235.3	245.2	253.1	264.9	283.9	312.0	314.7
62.5°	2644.9	935.9	295.4	234.9	225.8	238.0	247.1	261.0	281.9	318.7	324.2
65°	2328.9	850.5	280.3	227.0	218.3	231.7	242.0	258.2	287.5	348.0	351.5
67.5°	1821.6	697.1	252.3	215.9	208.4	225.4	238.8	257.8	293.4	354.7	357.1
70°	1204.4	521.5	221.4	203.2	198.1	217.9	240.4	271.2	286.7	340.4	334.1
72.5°	625.1	366.1	196.5	187.4	186.2	211.1	263.3	269.7	279.9	320.3	312.4
75°	328.2	254.2	174.8	170.0	172.0	209.6	310.8	262.6	271.2	306.4	321.5
77.5°	200.9	205.2	156.2	154.2	158.2	204.8	310.4	253.5	258.6	281.9	298.5
80°	134.4	166.5	142.0	142.3	145.1	187.4	278.8	239.2	243.2	266.5	283.5
82.5°	85.0	98.5	128.9	135.6	132.1	154.6	236.8	217.9	223.4	304.9	322.3
85°	43.1	61.7	111.9	130.5	119.0	108.3	192.2	191.0	193.7	219.8	229.7
87.5°	19.8	34.0	87.4	113.9	89.8	67.6	139.6	141.6	152.6	156.2	156.2
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)