

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: P200136

Luminaire Tested: **GAP-AF-02-LED-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12709.1 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-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

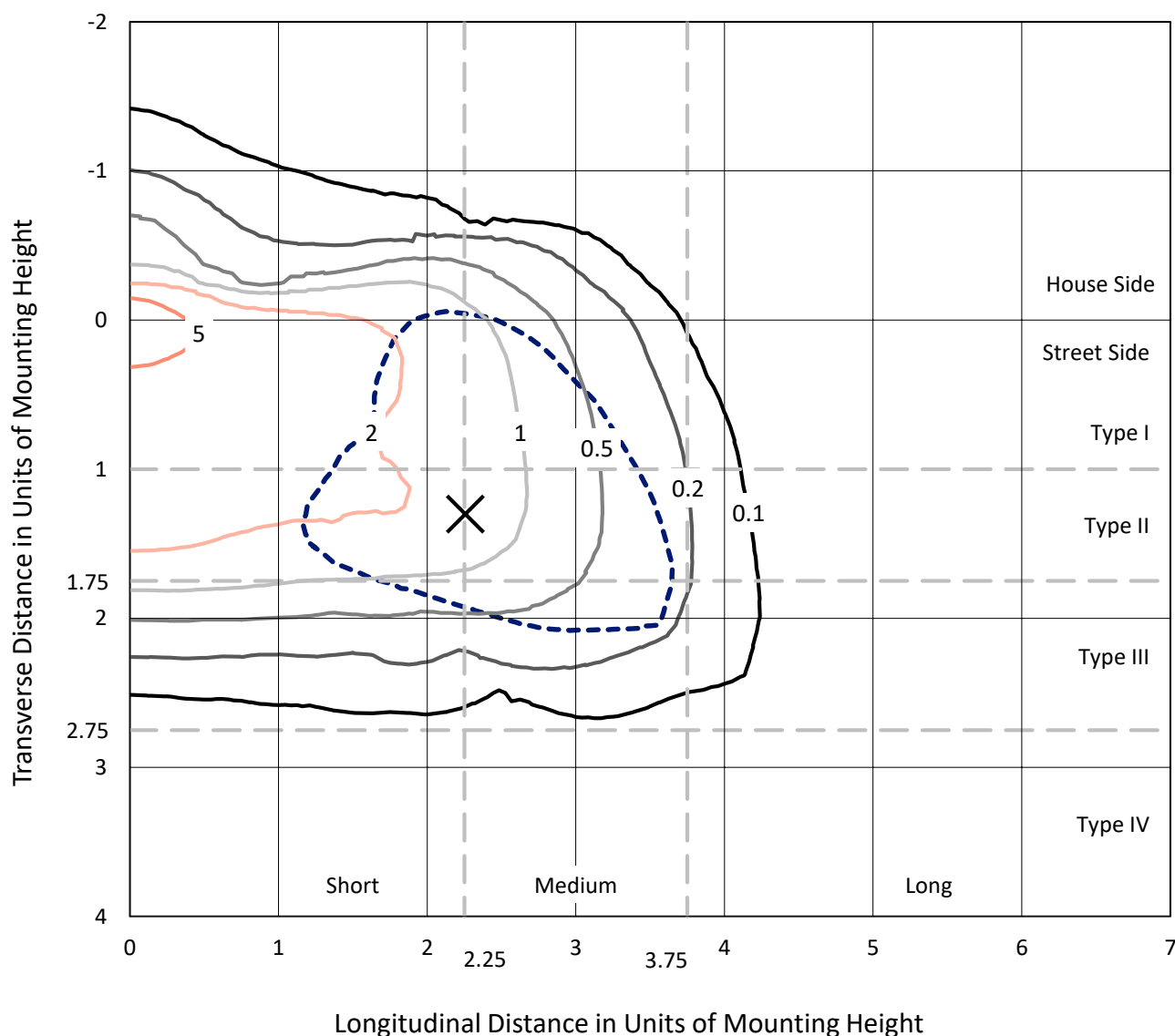


REPORT NUMBER: P200136

CATALOG NUMBER: GAP-AF-02-LED-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

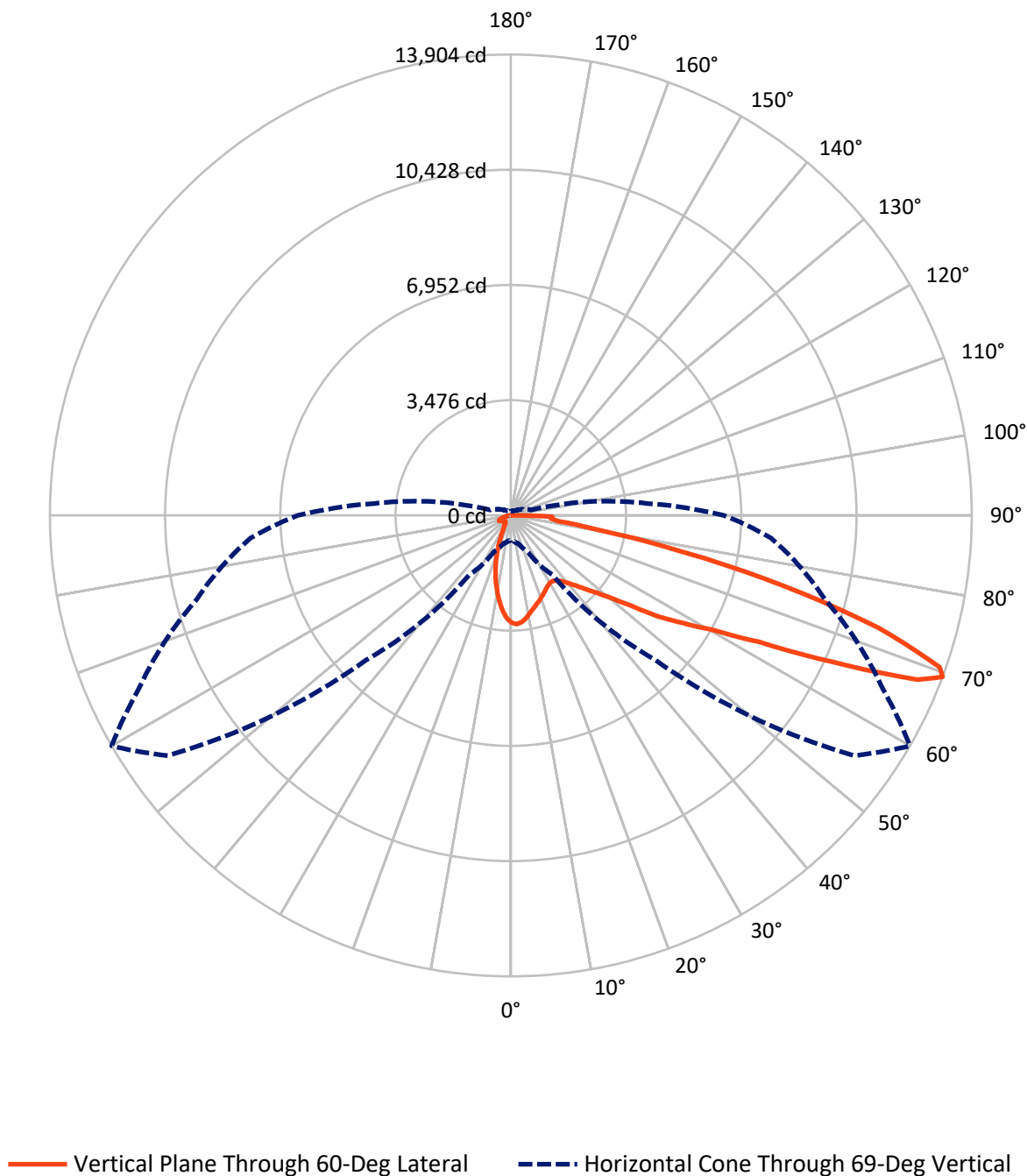


Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Medium - Non-Cutoff

REPORT NUMBER: P200136

CATALOG NUMBER: GAP-AF-02-LED-U-SL3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1808.1	0.0	1808.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10901.0	0.0	10901.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	12709.1	0.0	12709.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.8	2.2
10°-20°	583.4	4.6
20°-30°	743.4	5.8
30°-40°	1021.9	8.0
40°-50°	1658.2	13.0
50°-60°	2659.3	20.9
60°-70°	3539.3	27.8
70°-80°	1911.0	15.0
80°-90°	318.8	2.5
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°	12709.1	100.0
0°-180°	12709.1	100.0

Coefficient of Utilization



REPORT NUMBER: P200136

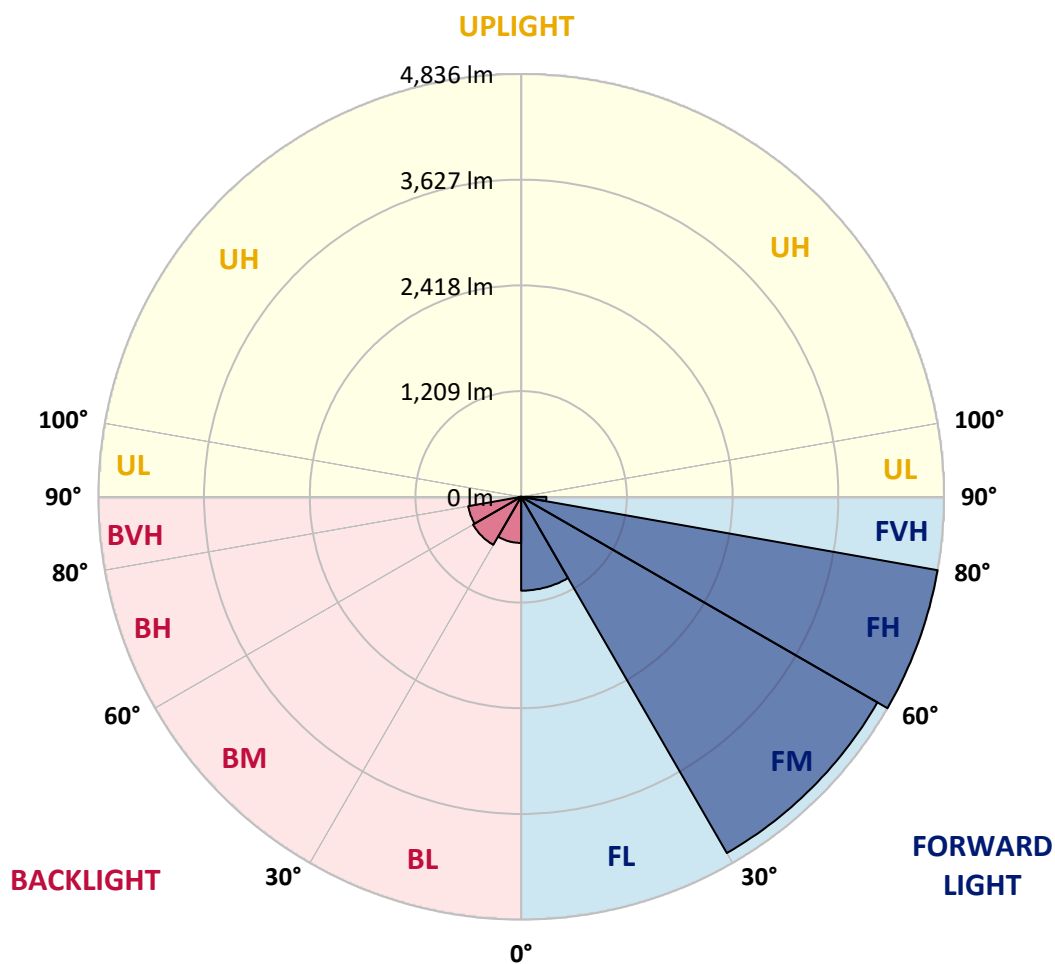
CATALOG NUMBER: GAP-AF-02-LED-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1073.1	8.4			
FM	(30°-60°)	4704.2	37.0			
FH	(60°-80°)	4835.6	38.0			G2/5000
FVH	(80°-90°)	288.1	2.3			G3/500
BL	(0°-30°)	527.5	4.2	B2/1000		
BM	(30°-60°)	635.2	5.0	B1/1000		
BH	(60°-80°)	614.7	4.8	B2/1000		G2/1000
BVH	(80°-90°)	30.7	0.2			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 III Medium





REPORT NUMBER: P200136

CATALOG NUMBER: GAP-AF-02-LED-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5
2.5°	3304.7	3312.1	3309.0	3307.2	3312.7	3304.1	3286.3	3280.8	3272.2	3252.0	3217.6
5°	3180.8	3202.9	3201.6	3218.2	3245.8	3253.2	3245.2	3246.4	3230.5	3205.3	3148.2
7.5°	2966.6	2975.8	2980.7	3016.9	3067.2	3107.7	3142.1	3153.1	3145.8	3124.3	3050.6
10°	2745.5	2752.9	2764.5	2806.9	2870.7	2926.6	2991.7	3029.2	3045.1	3041.4	2959.2
12.5°	2555.8	2563.2	2578.6	2626.4	2702.5	2771.3	2865.8	2912.4	2950.6	2973.3	2884.8
15°	2385.7	2401.7	2416.4	2471.7	2557.1	2647.3	2754.1	2813.0	2871.9	2922.9	2819.2
17.5°	2253.2	2269.1	2277.7	2328.0	2418.9	2529.3	2654.7	2724.0	2797.7	2881.1	2754.1
20°	2176.4	2183.8	2180.1	2208.3	2290.0	2407.2	2555.8	2636.2	2725.2	2841.9	2689.0
22.5°	2154.8	2155.5	2142.0	2138.9	2191.8	2290.6	2450.2	2547.8	2657.1	2816.1	2633.2
25°	2207.1	2205.3	2168.5	2138.3	2143.8	2201.6	2348.3	2461.8	2600.0	2810.6	2590.2
27.5°	2323.1	2328.6	2274.0	2217.6	2161.6	2159.8	2271.0	2390.6	2553.3	2835.7	2571.8
30°	2485.8	2495.0	2436.7	2364.9	2259.9	2173.4	2240.9	2348.3	2524.4	2887.9	2568.7
32.5°	2663.9	2673.7	2629.5	2553.9	2416.4	2256.8	2261.7	2352.0	2523.2	2961.0	2589.6
35°	2853.5	2864.6	2841.9	2778.0	2625.2	2410.9	2341.5	2411.5	2563.2	3072.7	2645.5
37.5°	3065.4	3082.6	3088.7	3027.9	2864.6	2614.2	2472.3	2524.4	2653.4	3228.0	2748.0
40°	3370.5	3394.5	3392.6	3305.4	3139.0	2888.5	2674.3	2687.8	2794.0	3435.6	2911.8
42.5°	3954.9	3959.8	3807.0	3617.3	3441.1	3177.1	2912.4	2901.4	2988.0	3698.3	3153.1
45°	4698.4	4678.2	4338.0	3971.5	3756.7	3508.6	3222.5	3168.5	3234.2	4018.8	3455.2
47.5°	5315.5	5268.7	4839.0	4333.1	4090.6	3869.0	3586.6	3492.0	3528.3	4382.2	3845.7
50°	5529.7	5494.7	5138.6	4634.0	4406.8	4308.6	4034.7	3900.9	3910.7	4815.6	4303.0
52.5°	5483.6	5478.7	5241.1	4832.2	4702.7	4770.2	4669.6	4488.4	4392.7	5296.9	4796.6
55°	5375.0	5385.4	5299.4	5063.1	5041.0	5215.9	5499.0	5365.2	5067.4	5782.6	5306.9
57.5°	4997.4	5024.4	5213.5	5353.5	5585.5	5845.9	6167.0	6128.9	5793.7	6307.5	5913.4
60°	4026.1	4088.7	4595.9	5296.9	6146.1	6960.2	7103.8	7015.4	6542.7	6958.9	6714.5
62.5°	2821.0	2886.1	3489.0	4586.1	6053.9	8218.7	8778.6	8397.3	7618.2	7918.5	7751.5
65°	1510.3	1541.6	2002.0	3182.0	5111.0	8478.4	11226.4	10646.2	9321.3	9101.5	8638.6
67.5°	833.1	850.3	1026.5	1606.6	3273.4	7466.0	12785.8	13224.1	11449.8	9889.2	8477.2
69°	753.3	769.3	884.6	1216.8	2190.5	6173.1	12633.4	13903.6	12383.0	9811.2	7880.4
70°	736.7	751.5	855.2	1121.7	1773.1	5088.3	12123.3	13729.9	12605.2	9531.9	7359.8
72.5°	663.1	679.0	779.7	1007.5	1515.2	2536.7	9603.1	11608.9	11444.3	8264.7	5582.4
75°	618.3	633.0	803.6	986.6	1450.7	1605.4	6330.8	8555.8	8412.6	5781.4	3010.1
77.5°	264.6	263.4	372.7	834.9	1472.2	1554.5	3401.8	5344.9	4876.4	2471.0	864.4
80°	176.8	173.7	176.8	245.6	1350.0	1563.1	1782.3	2713.0	2049.3	629.9	426.1
82.5°	152.2	149.8	155.3	149.8	474.5	1784.1	1515.2	1442.8	974.3	357.9	211.2
85°	102.5	98.2	133.8	134.4	224.1	1585.2	1706.7	1218.6	788.3	212.5	104.3
87.5°	49.1	47.9	77.9	95.1	131.3	644.0	1914.9	1248.7	795.0	108.6	49.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P200136

CATALOG NUMBER: GAP-AF-02-LED-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5	3238.5
2.5°	3207.2	3182.0	3157.4	3128.0	3097.3	3062.9	3045.7	3028.5	3024.3	3019.3	3002.2
5°	3118.8	3083.2	3021.8	2954.3	2883.0	2813.6	2760.8	2727.7	2702.5	2689.6	2666.9
7.5°	3004.6	2952.4	2844.9	2728.3	2608.6	2499.3	2404.8	2345.2	2288.8	2262.4	2232.3
10°	2895.9	2817.9	2651.0	2479.0	2307.2	2142.0	1986.7	1876.8	1779.2	1724.5	1685.8
12.5°	2802.6	2695.8	2464.3	2231.7	1995.9	1760.7	1528.1	1345.1	1192.2	1111.8	1070.7
15°	2711.7	2582.8	2286.9	1991.6	1688.9	1369.0	1063.4	855.8	729.4	679.0	661.8
17.5°	2629.5	2464.3	2108.8	1749.7	1372.1	985.4	714.6	600.5	551.9	535.3	529.8
20°	2540.4	2344.6	1924.1	1496.8	1041.9	688.9	558.0	507.7	488.0	483.1	480.7
22.5°	2454.5	2226.8	1747.2	1226.0	748.4	531.6	479.5	458.6	455.5	459.8	459.8
25°	2381.4	2121.1	1556.3	943.0	549.4	447.5	429.1	424.2	435.9	451.8	454.9
27.5°	2326.8	2034.5	1353.1	696.2	437.7	389.2	388.6	396.6	425.4	456.1	462.3
30°	2289.4	1952.3	1135.8	502.2	367.1	342.6	352.4	369.6	411.9	455.5	467.2
32.5°	2270.3	1891.5	909.2	388.6	314.4	300.8	317.4	338.3	380.0	420.5	435.9
35°	2285.1	1846.7	695.6	324.2	277.5	267.1	284.3	304.5	329.1	346.3	357.9
37.5°	2340.3	1828.9	524.9	290.4	252.4	242.5	256.0	267.7	277.5	282.4	288.0
40°	2459.4	1848.0	420.5	273.2	238.2	226.0	231.5	235.8	241.9	246.8	249.3
42.5°	2635.0	1905.0	377.0	266.5	230.9	213.1	211.9	213.7	221.7	230.9	232.7
45°	2880.5	2005.7	373.9	270.8	227.2	202.6	197.1	199.6	211.9	226.0	228.4
47.5°	3194.3	2159.1	398.4	283.7	230.3	197.1	187.8	190.9	206.3	225.4	228.4
50°	3574.3	2373.5	439.6	302.7	243.8	198.4	184.7	186.6	202.6	223.5	226.6
52.5°	4023.1	2677.4	484.4	321.1	257.9	206.3	187.2	182.9	197.7	216.1	219.8
55°	4522.3	3067.2	530.4	337.7	265.3	216.1	192.1	178.0	188.4	203.9	206.9
57.5°	5134.9	3612.3	610.3	353.6	270.2	222.9	197.1	173.1	176.8	187.8	190.3
60°	5964.3	4383.4	750.8	380.0	281.2	225.4	196.4	168.8	165.1	171.2	172.5
62.5°	6958.3	5220.8	868.1	413.2	299.6	227.2	192.7	165.7	155.3	155.3	156.5
65°	7548.3	5445.0	803.0	440.8	315.0	225.4	188.4	162.6	147.9	141.2	141.8
67.5°	7047.9	4788.6	688.2	446.3	314.4	216.8	181.7	157.1	140.6	130.1	129.5
69°	6421.1	4131.8	636.7	431.6	299.6	205.7	173.1	151.0	135.0	124.0	123.4
70°	5915.8	3730.8	602.9	415.6	283.7	197.7	166.3	145.5	130.7	120.3	119.1
72.5°	4301.2	2444.6	515.1	357.3	233.9	165.7	143.6	127.7	116.6	110.5	109.3
75°	2149.3	1165.9	418.1	289.8	179.2	132.6	117.8	106.8	101.3	100.0	99.4
77.5°	706.0	534.1	299.0	216.1	133.2	103.7	95.1	87.2	85.9	89.6	88.4
80°	388.0	310.7	189.7	143.0	90.8	76.1	74.9	70.6	72.4	78.6	77.3
82.5°	197.7	161.4	117.2	85.9	61.4	54.6	59.5	57.1	59.5	65.1	64.4
85°	97.6	88.4	74.3	52.2	40.5	35.0	42.4	44.2	45.4	49.7	49.7
87.5°	56.5	52.2	39.3	24.6	20.3	18.4	24.6	23.9	28.2	30.7	30.1
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)