

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: P484748

Luminaire Tested: **IFLD-S-SA3B-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484748
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

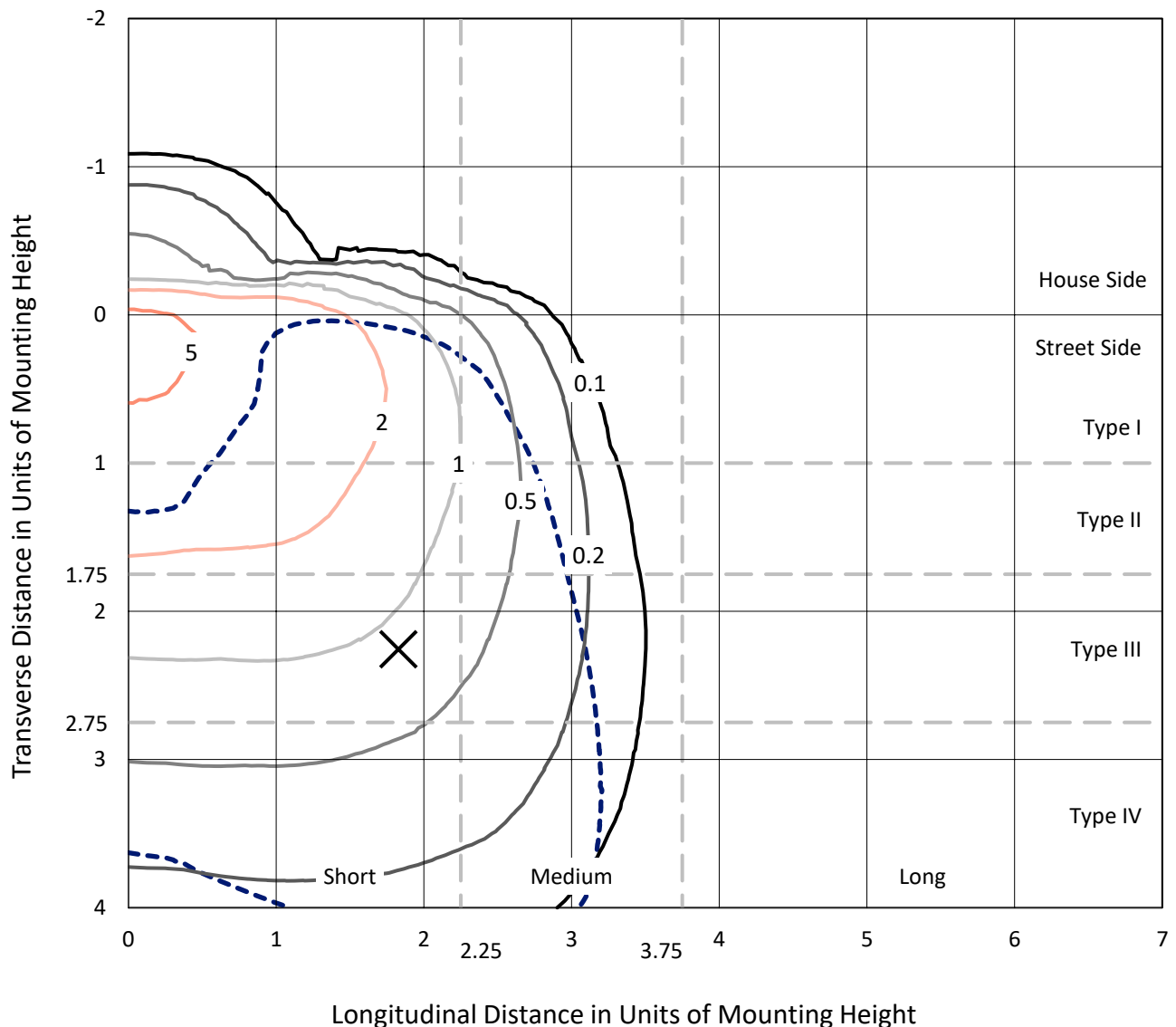
Lumens per Lamp: N/A
Luminaire Lumens: 13864.5 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

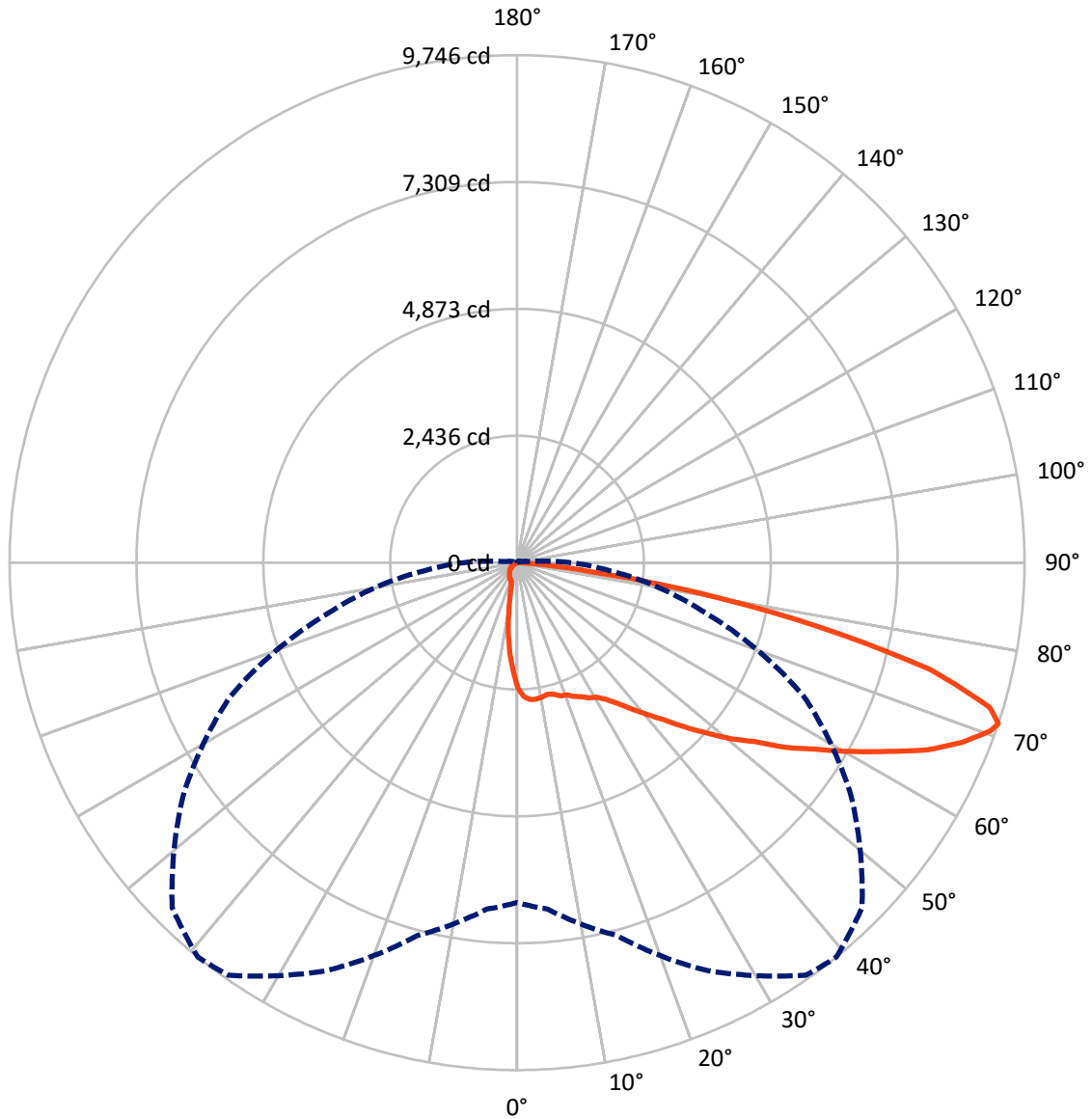
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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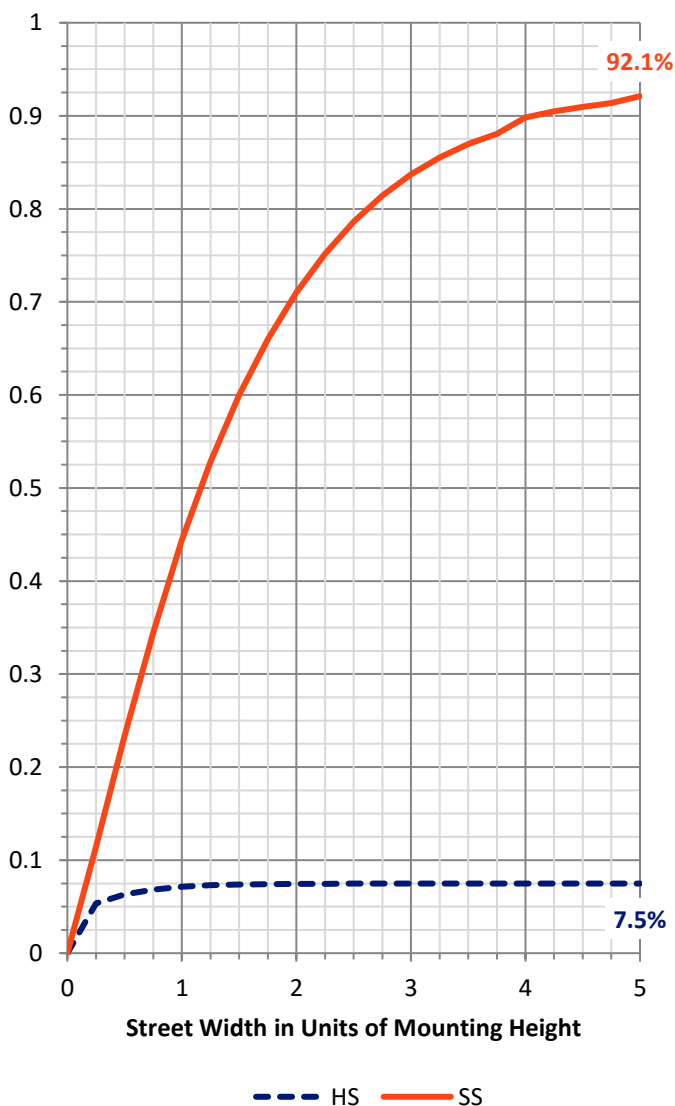
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1043.8	0.0	1043.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	12820.7	0.0	12820.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	13864.5	0.0	13864.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.5
10°-20°	496.6	3.6
20°-30°	797.2	5.8
30°-40°	1220.3	8.8
40°-50°	1958.9	14.1
50°-60°	2877.2	20.8
60°-70°	3623.8	26.1
70°-80°	2418.4	17.4
80°-90°	270.3	1.9
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°	13864.5	100.0
0°-180°	13864.5	100.0

Coefficient of Utilization



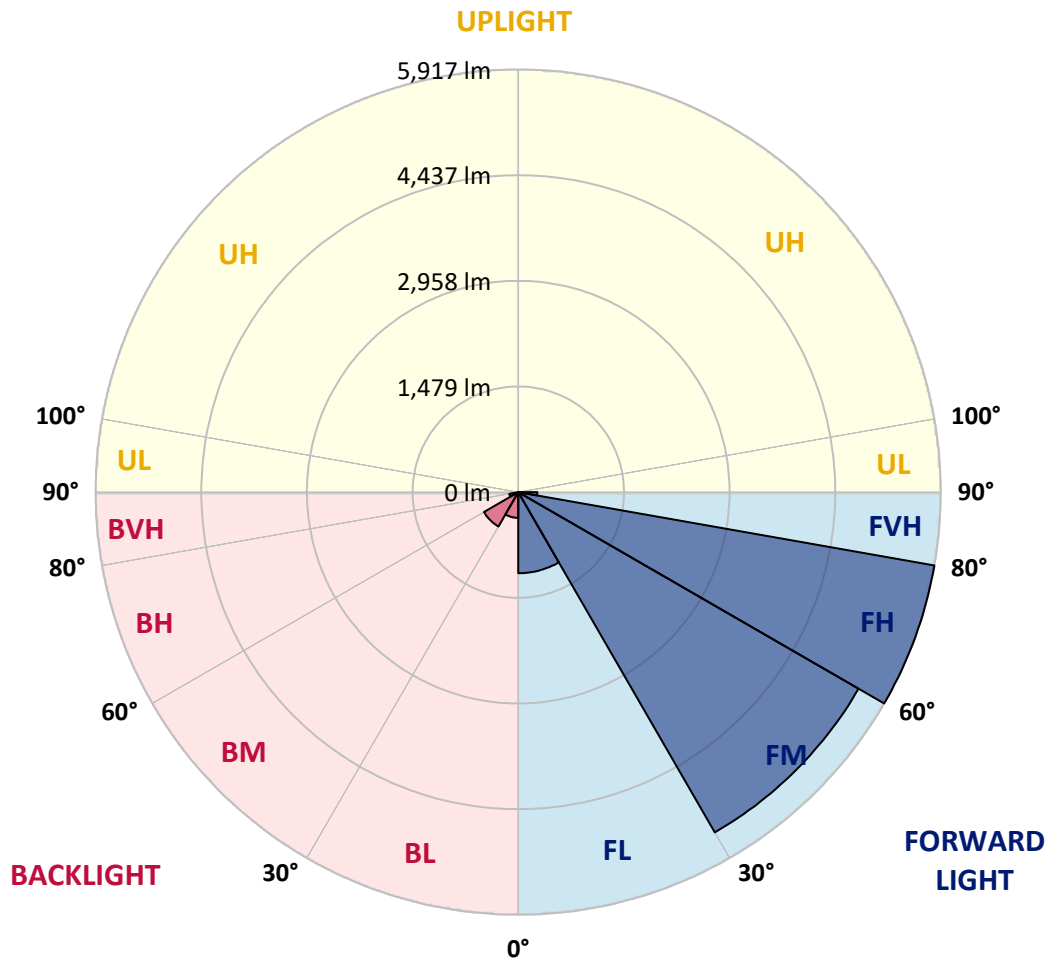
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.2	8.2			
FM (30°-60°)	5501.6	39.7			
FH (60°-80°)	5916.6	42.7			G3/7500
FVH (80°-90°)	267.3	1.9			G3/500
BL (0°-30°)	360.4	2.6	B1/500		
BM (30°-60°)	554.8	4.0	B1/1000		
BH (60°-80°)	125.6	0.9	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2
2.5°	2600.5	2626.0	2600.5	2589.6	2578.7	2580.5	2551.4	2556.9	2522.3	2476.9	2440.5
5°	2682.4	2716.9	2689.6	2676.9	2675.1	2640.5	2626.0	2591.4	2549.6	2478.7	2435.0
7.5°	2675.1	2667.8	2680.5	2669.6	2646.0	2646.0	2629.6	2580.5	2538.7	2458.7	2384.1
10°	2620.5	2642.3	2631.4	2618.7	2624.2	2626.0	2595.1	2560.5	2547.8	2467.8	2345.9
12.5°	2615.1	2578.7	2618.7	2620.5	2596.9	2595.1	2591.4	2582.3	2542.3	2469.6	2355.0
15°	2596.9	2582.3	2622.3	2624.2	2629.6	2624.2	2629.6	2622.3	2582.3	2540.5	2395.0
17.5°	2611.4	2595.1	2651.4	2678.7	2666.0	2691.4	2682.4	2649.6	2615.1	2566.0	2433.2
20°	2615.1	2638.7	2700.5	2711.4	2751.5	2709.6	2707.8	2673.3	2651.4	2598.7	2456.9
22.5°	2682.4	2693.3	2769.6	2793.3	2795.1	2789.6	2744.2	2704.2	2695.1	2629.6	2462.3
25°	2784.2	2822.4	2856.9	2871.5	2876.9	2851.5	2804.2	2753.3	2731.5	2689.6	2518.7
27.5°	2964.2	2940.6	2971.5	2993.3	2931.5	2940.6	2880.6	2836.9	2806.0	2769.6	2584.2
30°	3124.3	3102.4	3104.3	3100.6	3047.9	2998.8	2982.4	2906.0	2867.8	2882.4	2686.0
32.5°	3267.9	3220.6	3260.6	3242.5	3144.3	3129.7	3117.0	3020.6	3027.9	3095.2	2838.7
35°	3400.7	3384.3	3417.0	3384.3	3318.8	3315.2	3302.5	3218.8	3258.8	3355.2	3100.6
37.5°	3522.5	3528.0	3568.0	3551.6	3557.1	3560.7	3553.4	3464.3	3578.9	3795.3	3406.1
40°	3635.3	3628.0	3726.2	3777.1	3788.0	3828.0	3828.0	3806.2	3982.6	4226.3	3829.9
42.5°	3755.3	3773.5	3900.8	3986.2	4089.9	4124.5	4171.7	4182.7	4455.4	4733.7	4262.7
45°	3951.7	3920.8	4082.6	4284.5	4375.4	4497.3	4570.0	4631.8	4961.0	5342.9	4695.5
47.5°	4200.8	4139.0	4280.9	4573.6	4784.6	4884.6	5015.5	5097.4	5419.3	5813.9	5104.7
50°	4477.3	4413.6	4482.7	4886.4	5131.9	5313.8	5481.1	5584.7	5973.9	6341.3	5402.9
52.5°	4790.0	4731.9	4742.8	5211.9	5573.8	5706.6	5926.6	6081.2	6468.6	6659.5	5508.4
55°	5122.8	5108.3	5073.7	5530.2	5961.2	6259.4	6392.2	6577.7	6975.9	6832.3	5622.9
57.5°	5457.5	5412.0	5461.1	5952.1	6583.1	6761.3	6945.0	7056.0	7257.8	6983.2	5579.3
60°	5772.1	5775.7	5844.8	6410.4	7112.3	7365.1	7530.6	7463.3	7547.0	7048.7	5479.3
62.5°	6037.6	6030.3	6204.9	6925.0	7812.5	7983.4	8107.1	7807.0	7681.5	7112.3	5304.7
65°	6275.8	6357.6	6632.2	7537.9	8470.8	8667.2	8592.6	8132.5	7812.5	6925.0	4813.7
67.5°	6455.8	6577.7	7054.1	8114.3	9074.5	9212.7	9109.1	8379.9	7657.9	6190.3	3920.8
70°	6561.3	6685.0	7356.0	8594.4	9556.5	9656.5	9412.8	8188.9	6755.9	4482.7	2445.9
71°	6528.6	6679.5	7414.2	8645.4	9671.0	9745.6	9367.3	7836.1	6075.8	3753.5	1784.0
72.5°	6232.2	6374.0	7172.3	8609.0	9532.8	9487.3	9012.7	6988.7	4782.8	2393.2	922.0
75°	4579.1	4731.9	6155.8	7446.9	8509.0	8196.2	7294.2	4904.6	2495.0	732.9	269.1
77.5°	2280.5	2305.9	3820.8	5406.5	6241.2	5930.3	4888.2	2735.1	932.9	216.4	134.6
80°	1051.1	1058.4	1433.0	2800.6	3773.5	3551.6	2738.7	1349.4	421.9	114.6	105.5
82.5°	716.5	727.4	863.8	1160.2	1638.5	1382.1	1109.3	863.8	241.9	69.1	103.7
85°	130.9	120.0	483.7	614.7	632.9	429.2	383.7	747.4	90.9	40.0	90.9
87.5°	0.0	1.8	67.3	251.0	225.5	100.0	130.9	181.9	9.1	12.7	16.4
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°	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2
2.5°	2409.6	2389.6	2322.3	2247.7	2180.4	2127.7	2060.4	2029.5	1980.4	1953.1	1951.3
5°	2375.0	2320.5	2204.1	2078.6	1938.6	1822.2	1693.1	1620.3	1536.7	1511.2	1505.8
7.5°	2316.8	2238.6	2067.7	1891.3	1676.7	1471.2	1313.0	1143.9	1040.2	996.6	980.2
10°	2280.5	2185.9	1953.1	1689.4	1389.4	1100.2	878.4	698.3	603.8	558.3	547.4
12.5°	2280.5	2178.6	1860.4	1496.7	1098.4	752.9	543.7	440.1	409.2	398.3	398.3
15°	2275.0	2164.1	1771.3	1298.4	812.9	505.6	405.5	383.7	380.1	378.3	376.4
17.5°	2302.3	2138.6	1680.3	1085.7	574.7	398.3	372.8	369.2	365.5	365.5	361.9
20°	2322.3	2124.1	1571.2	860.2	429.2	369.2	358.3	352.8	351.0	349.2	352.8
22.5°	2305.9	2102.2	1436.6	643.8	374.6	351.0	343.7	338.2	334.6	334.6	336.4
25°	2336.8	2082.2	1302.1	485.6	351.0	334.6	327.3	323.7	321.9	320.1	316.4
27.5°	2378.7	2091.3	1142.0	391.0	331.0	318.2	311.0	307.3	305.5	301.9	305.5
30°	2429.6	2089.5	965.6	341.9	312.8	300.1	292.8	291.0	287.3	285.5	287.3
32.5°	2516.9	2136.8	783.8	316.4	292.8	281.9	274.6	272.8	271.0	269.1	267.3
35°	2704.2	2195.0	612.8	296.4	274.6	261.9	256.4	252.8	251.0	249.1	247.3
37.5°	2935.1	2324.1	467.4	278.2	256.4	243.7	238.2	236.4	229.1	227.3	225.5
40°	3224.3	2462.3	360.1	258.2	240.0	227.3	221.9	216.4	207.3	203.7	200.0
42.5°	3584.4	2596.9	296.4	240.0	221.9	212.8	203.7	194.6	187.3	180.0	176.4
45°	3944.4	2753.3	260.1	223.7	207.3	196.4	189.1	176.4	163.7	152.8	150.9
47.5°	4244.5	2809.7	238.2	205.5	192.8	183.7	172.8	156.4	138.2	127.3	125.5
50°	4468.2	2776.9	216.4	187.3	176.4	167.3	152.8	132.8	114.6	103.7	100.0
52.5°	4511.8	2633.3	196.4	172.8	160.0	149.1	132.8	110.9	90.9	80.0	78.2
55°	4480.9	2395.0	180.0	160.0	145.5	129.1	110.9	89.1	70.9	60.0	58.2
57.5°	4417.2	2113.1	161.9	143.7	127.3	110.9	90.9	72.7	52.7	41.8	41.8
60°	4200.8	1729.4	143.7	125.5	109.1	94.6	74.6	52.7	36.4	27.3	25.5
62.5°	3899.0	1329.4	125.5	107.3	94.6	78.2	58.2	38.2	21.8	14.5	14.5
65°	3347.9	931.1	105.5	89.1	78.2	63.6	43.6	23.6	12.7	5.5	5.5
67.5°	2544.1	576.5	87.3	74.6	67.3	50.9	30.9	14.5	5.5	1.8	0.0
70°	1460.3	300.1	69.1	60.0	52.7	38.2	21.8	7.3	3.6	0.0	0.0
71°	1020.2	221.9	61.8	52.7	47.3	34.6	18.2	5.5	1.8	0.0	0.0
72.5°	511.0	147.3	52.7	43.6	38.2	27.3	14.5	5.5	1.8	0.0	0.0
75°	181.9	94.6	36.4	29.1	27.3	20.0	9.1	3.6	1.8	0.0	0.0
77.5°	125.5	76.4	25.5	18.2	18.2	12.7	5.5	1.8	1.8	0.0	0.0
80°	114.6	41.8	16.4	10.9	9.1	7.3	3.6	1.8	0.0	0.0	0.0
82.5°	114.6	30.9	9.1	7.3	5.5	3.6	1.8	0.0	0.0	0.0	0.0
85°	80.0	16.4	5.5	5.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	5.5	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
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)