

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: P484318

Luminaire Tested: **IFLD-S-SA3A-730-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484318
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

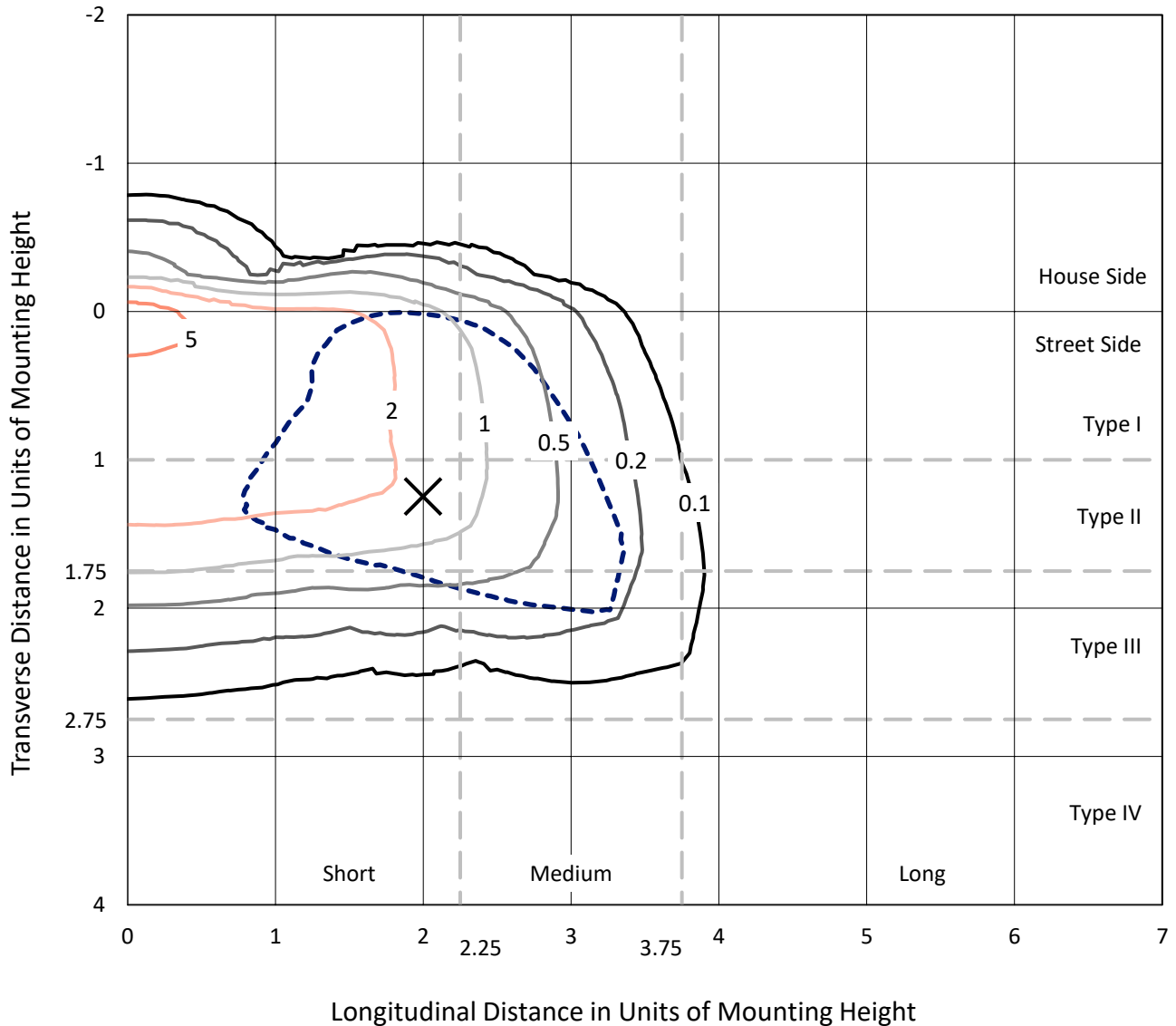
Lumens per Lamp: N/A
Luminaire Lumens: 10477.6 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

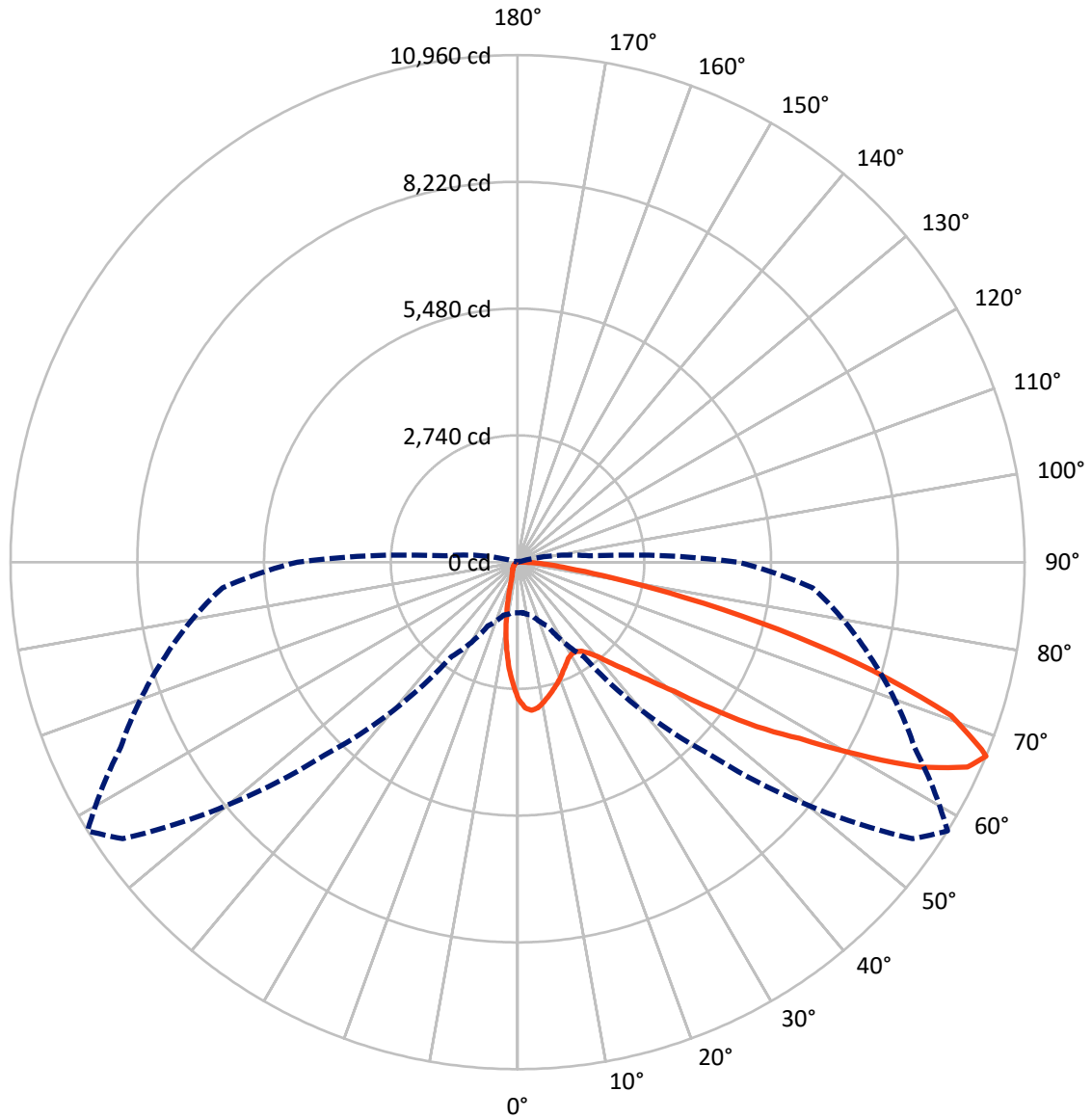
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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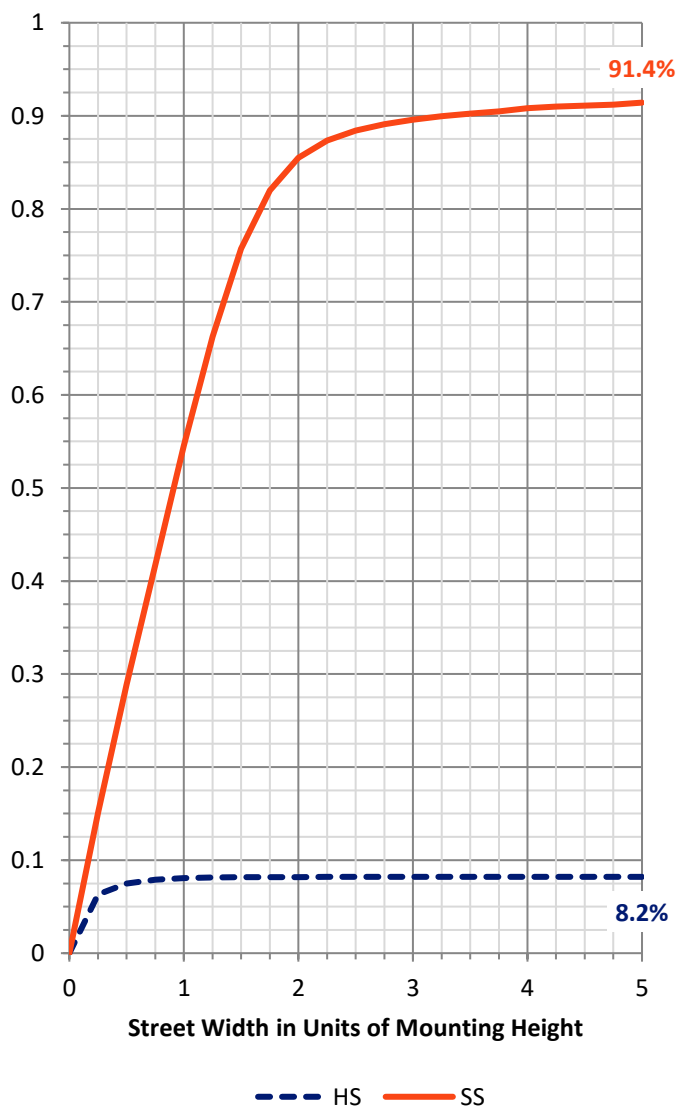
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	866.0	0.0	866.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	9611.5	0.0	9611.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	10477.6	0.0	10477.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	2.2
10°-20°	488.5	4.7
20°-30°	648.2	6.2
30°-40°	898.2	8.6
40°-50°	1465.6	14.0
50°-60°	2576.0	24.6
60°-70°	2853.1	27.2
70°-80°	1182.3	11.3
80°-90°	130.2	1.2
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°	10477.6	100.0
0°-180°	10477.6	100.0

Coefficient of Utilization



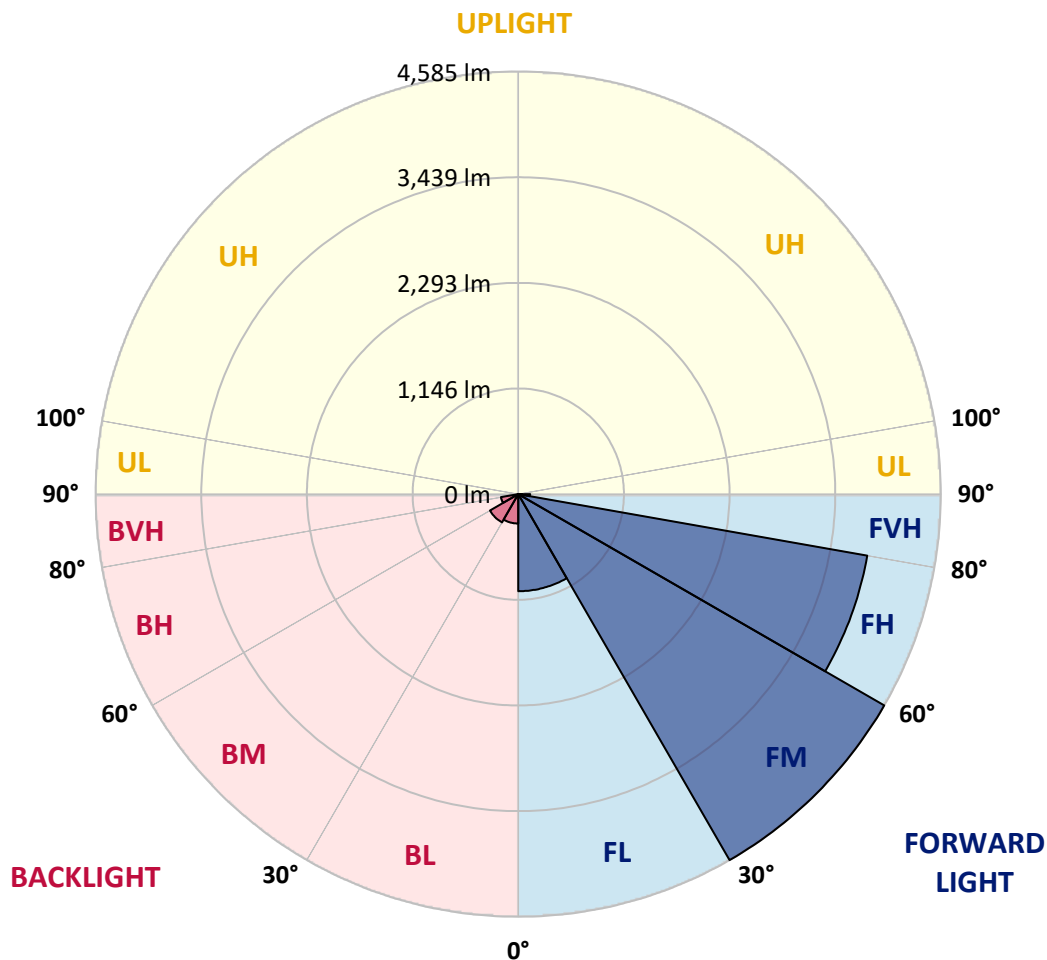
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.3	10.1			
FM (30°-60°)	4585.2	43.8			
FH (60°-80°)	3845.0	36.7			G2/5000
FVH (80°-90°)	128.0	1.2			G2/225
BL (0°-30°)	319.0	3.0	B1/500		
BM (30°-60°)	354.5	3.4	B1/1000		
BH (60°-80°)	190.4	1.8	B1/500		G1/500
BVH (80°-90°)	2.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4
2.5°	3229.9	3241.1	3250.8	3232.7	3248.0	3225.8	3168.7	3156.2	3146.5	3061.6	3012.9
5°	3228.5	3216.0	3225.8	3234.1	3213.2	3229.9	3216.0	3217.4	3179.9	3103.4	2967.0
7.5°	3012.9	3007.4	3012.9	3053.3	3099.2	3135.4	3156.2	3177.1	3152.0	3038.0	2905.8
10°	2722.2	2750.0	2765.3	2837.7	2908.6	2975.4	3040.8	3079.7	3072.8	3026.9	2839.1
12.5°	2519.1	2510.8	2566.4	2613.7	2684.7	2819.6	2933.7	2969.8	3011.6	2947.6	2751.4
15°	2331.3	2309.1	2342.5	2424.5	2545.6	2652.7	2812.6	2866.9	2919.7	2936.4	2704.1
17.5°	2151.9	2163.0	2197.8	2271.5	2385.6	2535.8	2686.1	2763.9	2890.5	2868.3	2633.2
20°	2065.7	2089.3	2101.8	2139.4	2218.7	2368.9	2592.9	2655.5	2790.4	2866.9	2563.6
22.5°	2069.8	2069.8	2040.6	2062.9	2135.2	2252.1	2466.3	2535.8	2750.0	2794.6	2501.0
25°	2114.3	2086.5	2087.9	2061.5	2092.1	2156.1	2352.2	2437.1	2668.0	2801.5	2467.7
27.5°	2147.7	2142.2	2133.8	2126.9	2087.9	2097.7	2277.1	2346.6	2636.0	2793.2	2416.2
30°	2268.7	2243.7	2235.4	2220.1	2168.6	2121.3	2217.3	2304.9	2610.9	2812.6	2387.0
32.5°	2370.3	2374.5	2381.4	2336.9	2292.4	2175.5	2234.0	2303.5	2592.9	2857.1	2416.2
35°	2498.3	2516.3	2519.1	2505.2	2457.9	2342.5	2303.5	2363.3	2623.5	2936.4	2419.0
37.5°	2693.0	2673.5	2726.4	2732.0	2698.6	2545.6	2464.9	2488.5	2713.9	3063.0	2524.7
40°	2819.6	2843.2	2942.0	3003.2	2946.2	2807.1	2698.6	2694.4	2844.6	3261.9	2655.5
42.5°	2960.1	3012.9	3121.4	3253.6	3246.6	3117.3	3007.4	2989.3	3076.9	3549.9	2862.7
45°	3152.0	3199.3	3351.0	3549.9	3658.4	3548.5	3383.0	3346.8	3359.3	3942.1	3216.0
47.5°	3470.6	3458.1	3676.5	3872.6	4050.6	3965.8	3894.8	3789.1	3779.4	4404.0	3704.3
50°	3830.9	3828.1	4022.8	4245.4	4451.3	4616.8	4498.5	4383.1	4385.9	5031.3	4278.8
52.5°	4173.0	4227.3	4437.3	4658.5	5011.8	5189.9	5303.9	5258.0	5036.9	5591.9	4893.6
55°	4353.9	4401.2	4609.8	4991.0	5548.8	6006.4	6315.2	6276.3	5849.2	6223.4	5500.1
57.5°	4182.8	4214.8	4497.2	4996.5	5924.3	6945.3	7241.6	7192.9	6689.4	6706.1	6233.1
60°	3466.4	3516.5	3936.6	4522.2	5778.3	7668.7	8517.2	8443.5	7454.5	7316.7	6704.7
62.5°	2400.9	2434.3	2779.3	3508.1	5085.6	7920.4	9721.8	9762.2	8261.2	7792.5	6845.2
65°	1555.2	1552.4	1749.9	2243.7	3604.1	7158.2	10434.0	10684.4	9040.2	7864.8	6802.1
67°	1098.9	1094.7	1187.9	1521.8	2495.5	5897.9	10421.5	10959.8	9463.1	7885.7	6402.8
67.5°	1014.1	1009.9	1098.9	1399.4	2252.1	5484.8	10265.7	10817.9	9611.9	7856.5	6227.6
70°	787.3	776.2	809.6	964.0	1311.7	3547.1	8785.7	9937.4	9303.1	7127.6	4972.9
72.5°	568.9	581.4	634.3	791.5	1029.4	1908.5	6696.4	8035.9	7770.2	5372.1	3160.4
75°	396.4	407.6	492.4	645.4	944.5	1157.3	4527.8	5828.4	5412.4	2965.6	1346.5
77.5°	207.3	221.2	314.4	516.1	858.3	895.8	2705.5	3695.9	2868.3	1055.8	371.4
80°	96.0	102.9	157.2	365.8	717.8	787.3	1577.4	2055.9	1147.6	236.5	128.0
82.5°	41.7	45.9	72.3	210.0	509.1	688.6	976.5	1078.0	415.9	76.5	79.3
85°	8.3	9.7	27.8	111.3	246.2	417.3	685.8	639.9	208.7	37.6	62.6
87.5°	0.0	0.0	7.0	32.0	66.8	123.8	290.7	290.7	64.0	19.5	23.6
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°	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4	2968.4
2.5°	2969.8	2919.7	2809.9	2708.3	2636.0	2553.9	2445.4	2396.7	2378.6	2353.6	2316.0
5°	2891.9	2830.7	2642.9	2453.8	2246.5	2089.3	1922.4	1825.0	1751.3	1705.4	1690.1
7.5°	2782.0	2656.8	2403.7	2100.4	1832.0	1598.3	1345.1	1174.0	1064.1	1019.6	977.9
10°	2694.4	2531.6	2146.3	1769.4	1411.9	1069.7	784.5	634.3	520.2	477.1	471.6
12.5°	2580.3	2385.6	1905.7	1431.4	982.1	637.1	434.0	377.0	345.0	339.4	335.2
15°	2485.7	2253.4	1677.6	1108.6	635.7	397.8	338.0	324.1	315.8	313.0	314.4
17.5°	2421.8	2111.6	1443.9	806.8	418.7	325.5	311.6	303.2	299.1	297.7	293.5
20°	2295.2	1991.9	1213.0	564.8	326.9	300.5	289.3	282.4	278.2	276.8	275.4
22.5°	2222.8	1840.3	982.1	393.7	290.7	272.6	264.3	258.7	251.8	247.6	246.2
25°	2150.5	1729.0	776.2	306.0	264.3	251.8	239.3	232.3	221.2	215.6	214.2
27.5°	2065.7	1619.1	598.1	265.7	237.9	225.3	212.8	201.7	187.8	182.2	179.4
30°	2017.0	1512.0	450.7	237.9	218.4	201.7	186.4	172.5	157.2	147.4	144.7
32.5°	1991.9	1414.7	338.0	217.0	197.5	179.4	160.0	143.3	129.4	121.0	119.6
35°	1961.3	1320.1	265.7	197.5	178.1	158.6	139.1	122.4	108.5	101.5	98.8
37.5°	1993.3	1264.4	221.2	182.2	162.7	140.5	119.6	102.9	91.8	84.9	83.5
40°	2081.0	1218.5	192.0	168.3	147.4	123.8	104.3	87.6	77.9	72.3	69.6
42.5°	2215.9	1218.5	173.9	154.4	133.5	108.5	89.0	76.5	66.8	61.2	59.8
45°	2460.7	1256.1	158.6	140.5	116.8	93.2	76.5	64.0	54.2	48.7	47.3
47.5°	2804.3	1342.3	146.1	128.0	104.3	82.1	66.8	54.2	44.5	38.9	37.6
50°	3266.1	1538.5	133.5	112.7	93.2	70.9	55.6	43.1	34.8	29.2	27.8
52.5°	3842.0	1816.7	121.0	104.3	79.3	59.8	44.5	34.8	26.4	22.3	20.9
55°	4451.3	2157.5	105.7	93.2	68.2	50.1	36.2	26.4	19.5	16.7	15.3
57.5°	5064.7	2420.4	93.2	80.7	55.6	40.3	29.2	20.9	13.9	11.1	9.7
60°	5390.2	2445.4	80.7	66.8	44.5	32.0	22.3	15.3	9.7	7.0	5.6
62.5°	5440.3	2222.8	69.6	54.2	36.2	25.0	15.3	11.1	5.6	2.8	2.8
65°	5182.9	1852.8	59.8	43.1	27.8	18.1	11.1	7.0	2.8	1.4	0.0
67°	4765.6	1552.4	51.5	36.2	22.3	13.9	8.3	4.2	1.4	0.0	0.0
67.5°	4604.3	1468.9	48.7	33.4	20.9	12.5	7.0	4.2	1.4	0.0	0.0
70°	3573.5	1048.8	36.2	23.6	15.3	9.7	5.6	2.8	0.0	0.0	0.0
72.5°	2189.5	613.4	27.8	16.7	11.1	7.0	4.2	1.4	0.0	0.0	0.0
75°	918.1	211.4	23.6	12.5	8.3	4.2	2.8	1.4	0.0	0.0	0.0
77.5°	239.3	79.3	16.7	8.3	5.6	4.2	2.8	1.4	0.0	0.0	0.0
80°	97.4	36.2	11.1	5.6	5.6	4.2	2.8	1.4	0.0	0.0	0.0
82.5°	64.0	16.7	7.0	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0
85°	48.7	9.7	4.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	20.9	5.6	4.2	2.8	2.8	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)