

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: P481535

Luminaire Tested: **IFLD-L-SA7A-722-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481535
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

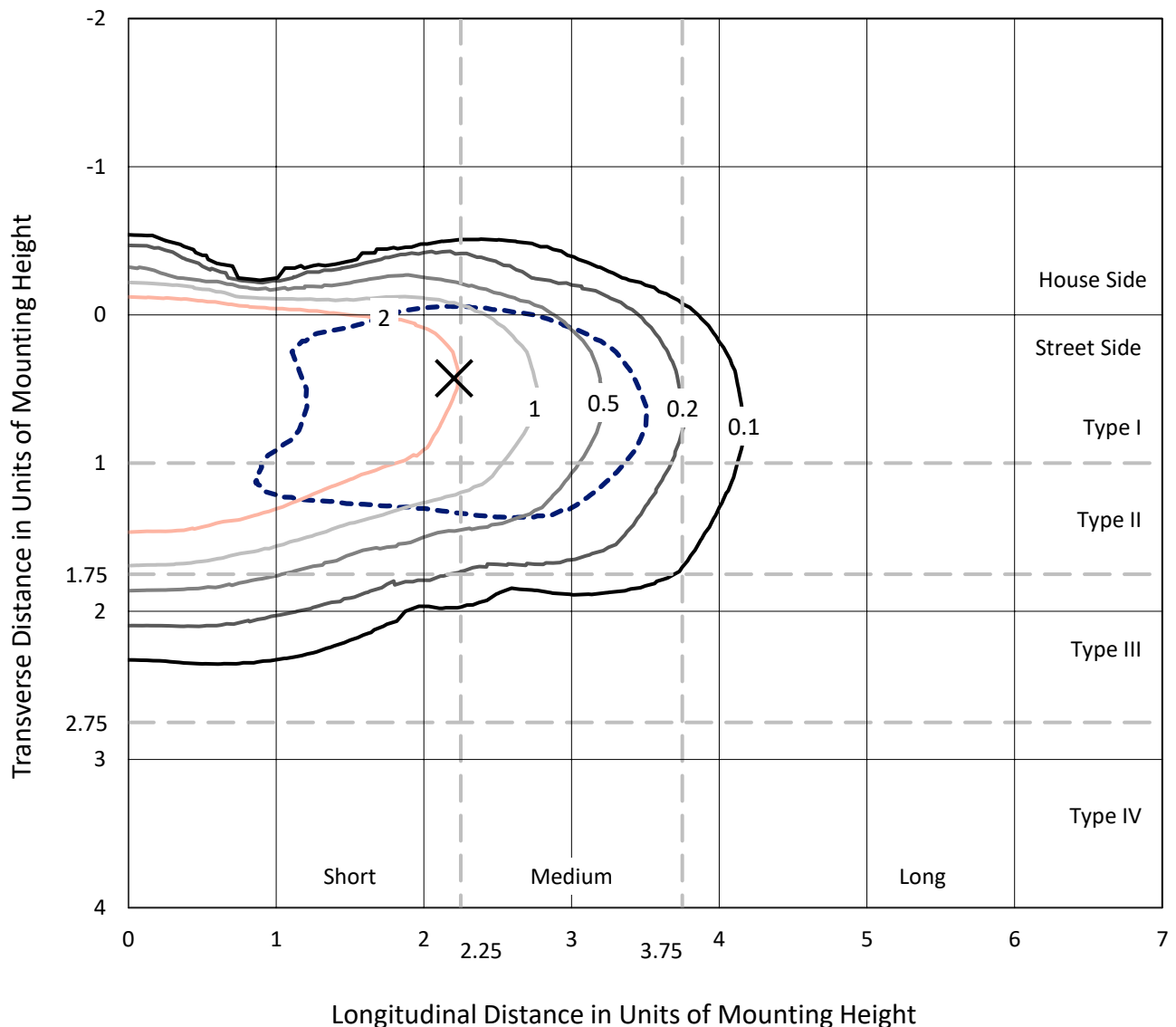
Lumens per Lamp: N/A
Luminaire Lumens: 16603.5 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 217.6
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

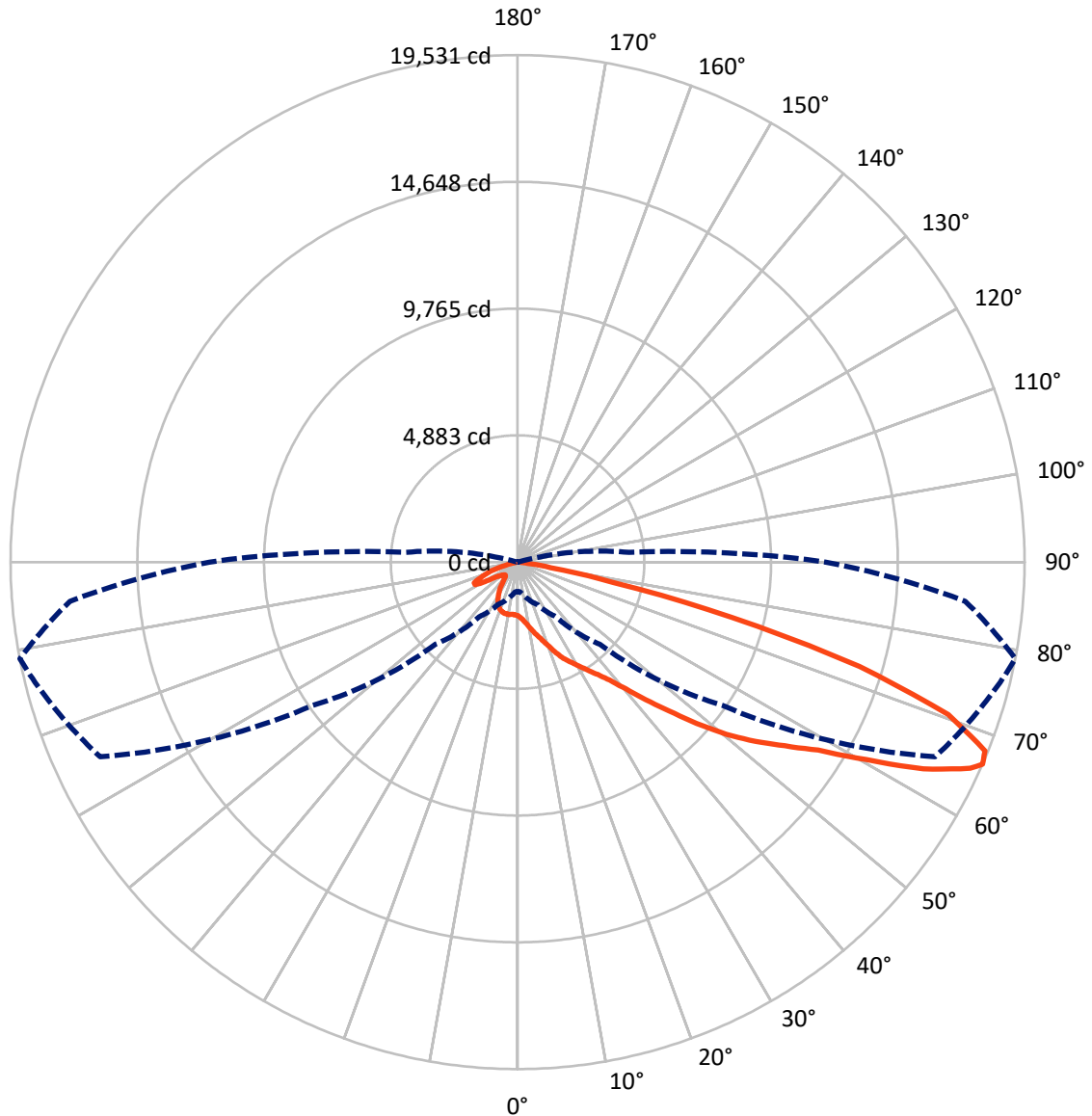
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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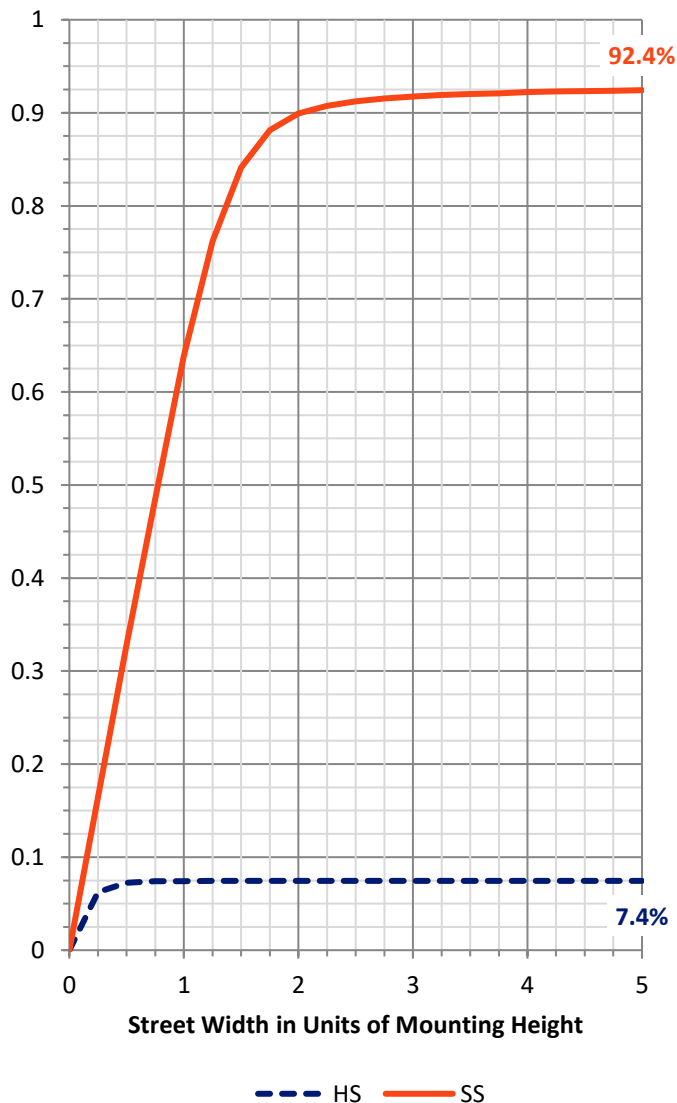
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1246.7	0.0	1246.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15356.8	0.0	15356.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	16603.5	0.0	16603.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	1.2
10°-20°	537.6	3.2
20°-30°	893.2	5.4
30°-40°	1534.1	9.2
40°-50°	2779.2	16.7
50°-60°	4393.2	26.5
60°-70°	4470.4	26.9
70°-80°	1704.8	10.3
80°-90°	95.6	0.6
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°	16603.5	100.0
0°-180°	16603.5	100.0

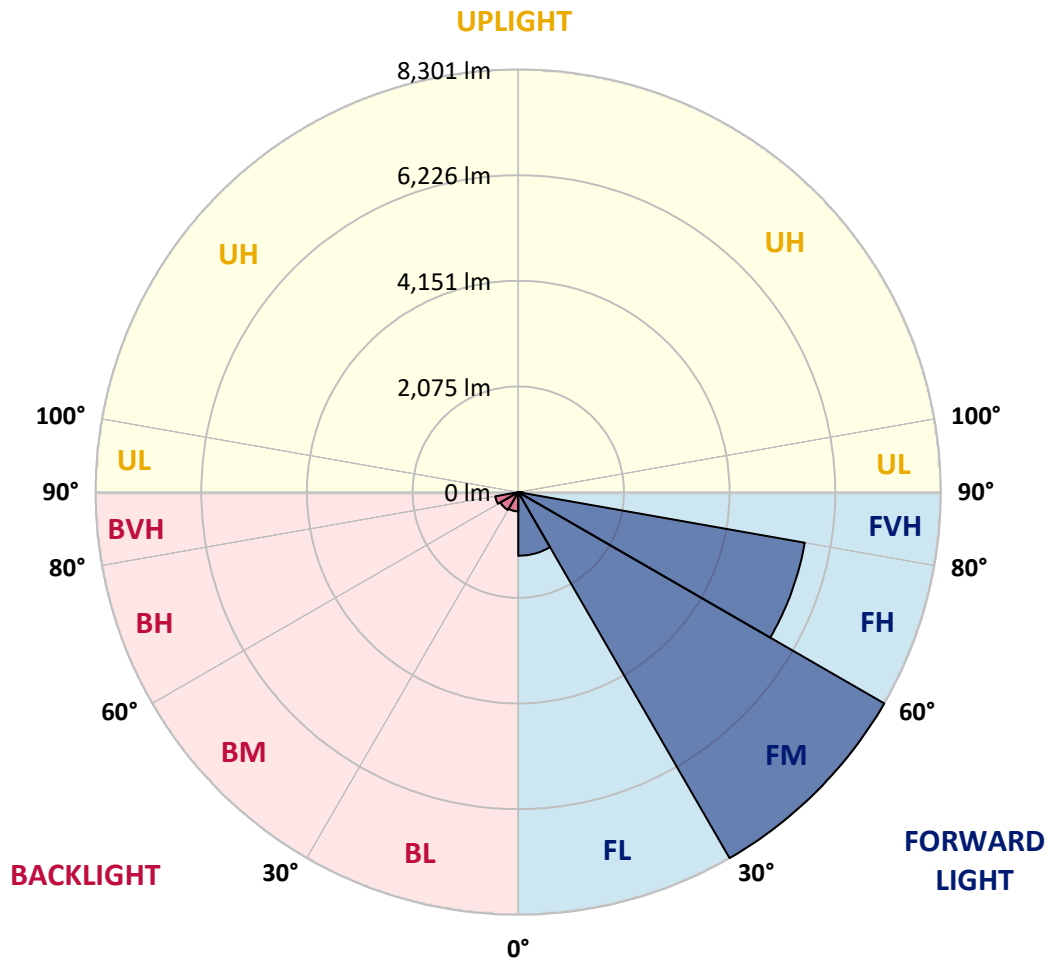


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.1	7.5			
FM (30°-60°)	8301.4	50.0			
FH (60°-80°)	5715.6	34.4			G3/7500
FVH (80°-90°)	90.7	0.5			G1/100
BL (0°-30°)	377.0	2.3	B1/500		
BM (30°-60°)	405.2	2.4	B1/1000		
BH (60°-80°)	459.6	2.8	B1/500		G1/500
BVH (80°-90°)	4.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7
2.5°	2339.6	2337.0	2326.8	2308.8	2285.8	2278.1	2244.9	2198.8	2173.2	2145.0	2132.2
5°	2500.8	2488.0	2518.7	2505.9	2511.1	2449.6	2408.7	2375.4	2278.1	2239.7	2178.3
7.5°	2536.7	2549.5	2546.9	2567.4	2587.8	2610.9	2582.7	2534.1	2436.8	2380.5	2314.0
10°	2536.7	2531.5	2552.0	2580.2	2639.0	2690.2	2767.0	2703.0	2628.8	2562.3	2441.9
12.5°	2490.6	2482.9	2503.4	2562.3	2667.2	2772.1	2856.6	2918.1	2813.1	2759.3	2603.2
15°	2349.8	2342.1	2426.6	2531.5	2669.8	2841.3	3017.9	3117.7	3046.0	2961.6	2787.5
17.5°	2175.7	2186.0	2275.6	2449.6	2669.8	2874.5	3099.8	3317.4	3307.1	3199.6	3017.9
20°	2116.9	2124.5	2214.1	2339.6	2590.4	2897.6	3227.8	3534.9	3596.4	3468.4	3230.3
22.5°	2229.5	2221.8	2229.5	2306.3	2536.7	2877.1	3312.2	3783.2	3893.3	3793.5	3509.3
25°	2613.4	2608.3	2544.3	2426.6	2505.9	2831.0	3355.8	3947.0	4200.5	4108.3	3734.6
27.5°	3176.6	3156.1	3056.3	2810.5	2649.3	2859.2	3427.4	4105.7	4469.2	4364.3	3936.8
30°	3780.7	3732.0	3601.5	3294.3	3020.4	2964.1	3468.4	4223.5	4768.7	4635.6	4113.4
32.5°	4197.9	4261.9	4220.9	3908.7	3488.9	3207.3	3534.9	4372.0	5045.2	4958.1	4415.5
35°	4842.9	4917.2	4745.7	4469.2	4046.9	3593.8	3675.7	4492.3	5470.1	5324.2	4697.0
37.5°	5656.9	5713.2	5590.4	5065.6	4620.2	4069.9	3965.0	4743.1	5836.1	5767.0	5058.0
40°	6066.5	6337.8	6163.7	5690.2	5211.5	4735.4	4443.6	5037.5	6473.5	6417.2	5557.1
42.5°	6632.2	6767.8	6678.2	6327.6	5828.4	5447.0	5034.9	5610.8	7246.5	7246.5	6232.9
45°	7231.1	7236.3	7231.1	6944.4	6501.6	6304.5	5833.5	6330.1	8078.4	8170.5	7041.7
47.5°	7722.6	7876.2	7863.4	7691.9	7348.9	7274.6	6632.2	7149.2	9122.7	9284.0	7830.1
50°	7976.0	8147.5	8198.7	8288.3	8272.9	8429.1	7505.0	8098.9	10023.8	10420.5	8843.7
52.5°	7906.9	7919.7	8234.5	8587.8	9150.9	9588.6	8557.1	9176.5	11078.4	11470.0	9627.0
55°	7341.2	7292.6	7940.2	8344.6	9509.3	10297.6	10013.5	10520.3	11900.0	12496.4	10435.9
57.5°	6099.7	6112.5	6711.5	7533.2	9243.1	10579.2	11569.8	12276.3	13051.9	13653.4	11572.4
60°	4210.7	4195.3	4866.0	5815.6	7679.1	10054.5	12465.7	14551.9	14592.8	15445.2	13612.4
62.5°	2367.7	2372.8	2882.2	3693.6	5372.8	8216.6	12422.2	16968.2	16794.1	17541.6	15931.5
65°	1341.3	1374.6	1725.2	2188.5	3217.5	5516.1	10684.2	17930.7	18491.2	19156.7	17339.4
66°	1133.9	1157.0	1456.5	1807.1	2567.4	4474.3	9616.8	17743.8	19023.6	19530.5	17311.2
67.5°	878.0	908.7	1159.5	1433.4	1883.9	3097.2	7740.5	16814.6	19120.9	19417.8	16822.3
70°	601.5	622.0	814.0	1087.9	1287.5	1584.5	4627.9	13901.7	17349.6	17600.5	14621.0
72.5°	422.3	432.6	570.8	824.2	990.6	906.1	2296.0	9890.7	13277.1	13766.0	11372.7
75°	304.6	314.8	391.6	591.3	773.0	593.8	1052.0	6317.3	8142.4	8526.3	6849.7
77.5°	220.1	232.9	266.2	381.4	560.6	417.2	517.1	3299.4	3839.5	3773.0	2946.2
80°	133.1	145.9	197.1	245.7	409.6	294.4	284.1	1377.1	1361.8	1292.6	926.6
82.5°	61.4	71.7	104.9	166.4	286.7	204.8	135.7	491.5	430.0	394.2	261.1
85°	17.9	23.0	61.4	125.4	145.9	99.8	81.9	168.9	176.6	151.0	87.0
87.5°	0.0	2.6	28.2	30.7	43.5	33.3	30.7	43.5	81.9	66.6	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°	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7
2.5°	2086.2	2068.2	2024.7	1958.2	1899.3	1868.6	1825.1	1786.7	1766.2	1763.6	1761.1
5°	2137.3	2088.7	1983.8	1863.5	1773.9	1676.6	1610.0	1561.4	1515.3	1471.8	1497.4
7.5°	2206.5	2129.7	1958.2	1802.0	1607.5	1482.1	1364.3	1295.2	1254.2	1215.9	1210.7
10°	2314.0	2216.7	1940.2	1658.7	1436.0	1251.7	1131.4	1031.6	975.2	908.7	934.3
12.5°	2459.9	2285.8	1873.7	1528.1	1241.5	1046.9	875.4	714.2	624.6	555.5	558.0
15°	2605.8	2378.0	1812.3	1369.4	1064.8	808.9	558.0	447.9	422.3	407.0	412.1
17.5°	2749.1	2452.2	1717.6	1208.2	862.6	514.5	407.0	384.0	371.2	355.8	355.8
20°	2923.2	2500.8	1599.8	1059.7	593.8	381.4	348.1	332.8	312.3	291.8	294.4
22.5°	3092.1	2541.8	1464.1	870.3	399.3	330.2	291.8	271.3	253.4	232.9	232.9
25°	3261.0	2554.6	1287.5	624.6	322.5	263.6	227.8	199.7	181.7	163.8	166.4
27.5°	3376.2	2475.2	1121.1	399.3	258.5	199.7	158.7	135.7	120.3	102.4	102.4
30°	3442.8	2329.3	942.0	281.6	194.5	135.7	94.7	71.7	56.3	43.5	41.0
32.5°	3509.3	2211.6	739.8	215.0	128.0	71.7	35.8	12.8	0.0	0.0	0.0
35°	3642.4	2078.5	496.6	120.3	43.5	2.6	0.0	0.0	0.0	0.0	0.0
37.5°	3726.9	1894.2	227.8	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3939.4	1802.0	56.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4284.9	1738.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4663.8	1712.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5168.0	1781.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5700.4	1968.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6284.0	2145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6793.4	2357.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7730.3	2859.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9412.0	3844.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11306.2	4576.7	28.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11999.8	4558.8	48.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11877.0	4308.0	48.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11239.6	3826.7	43.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9652.6	3161.2	43.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7359.1	2462.4	41.0	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4441.1	1310.6	33.3	12.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1768.7	460.7	25.6	10.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	478.7	138.2	15.4	10.2	7.7	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	125.4	51.2	12.8	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0
85°	48.6	20.5	10.2	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0
87.5°	15.4	7.7	7.7	5.1	5.1	2.6	2.6	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)