

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: P483795

Luminaire Tested: **IFLD-M-SA4D-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483795
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W
distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

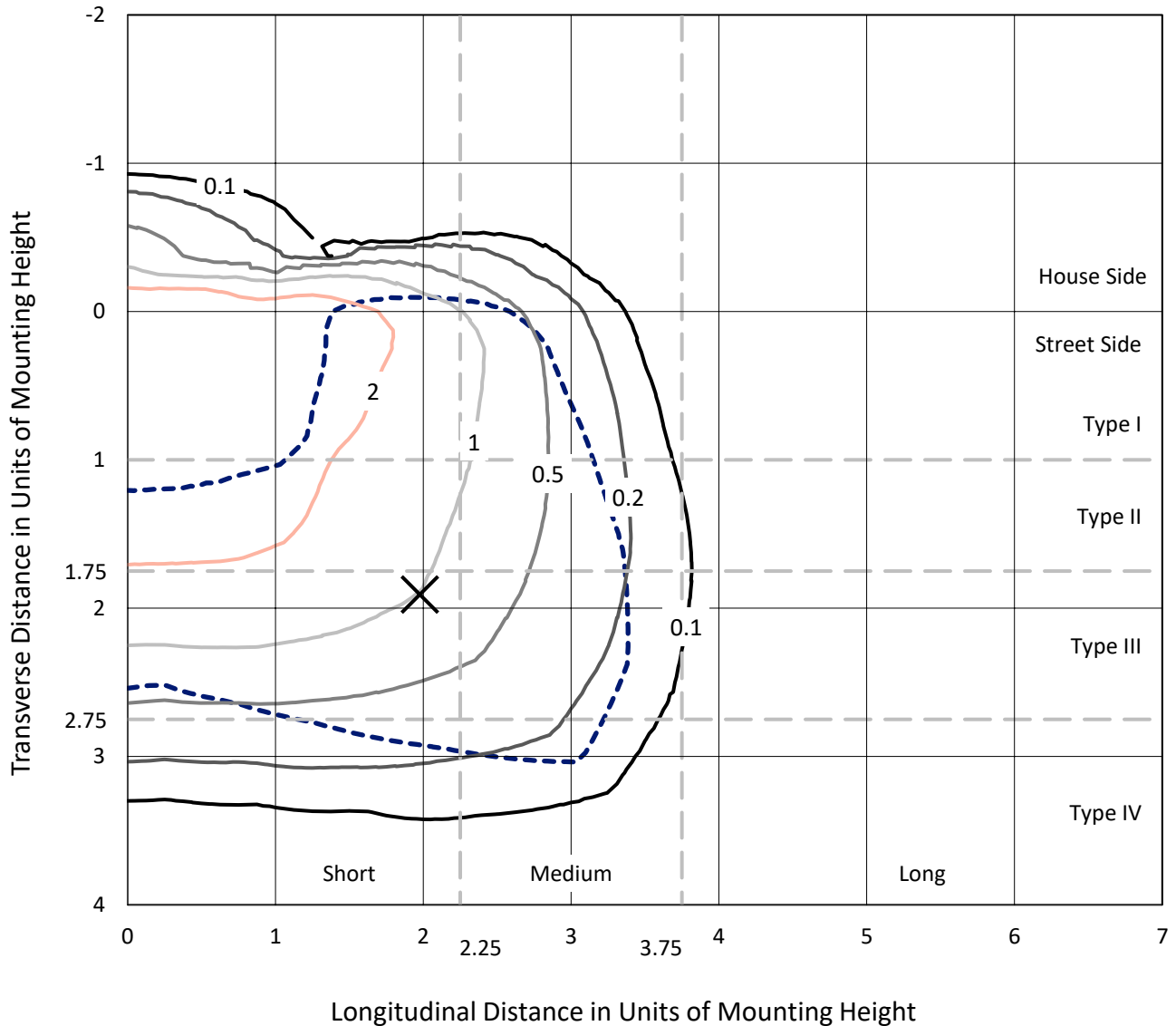
Lumens per Lamp: N/A
Luminaire Lumens: 18341.3 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 249.7
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

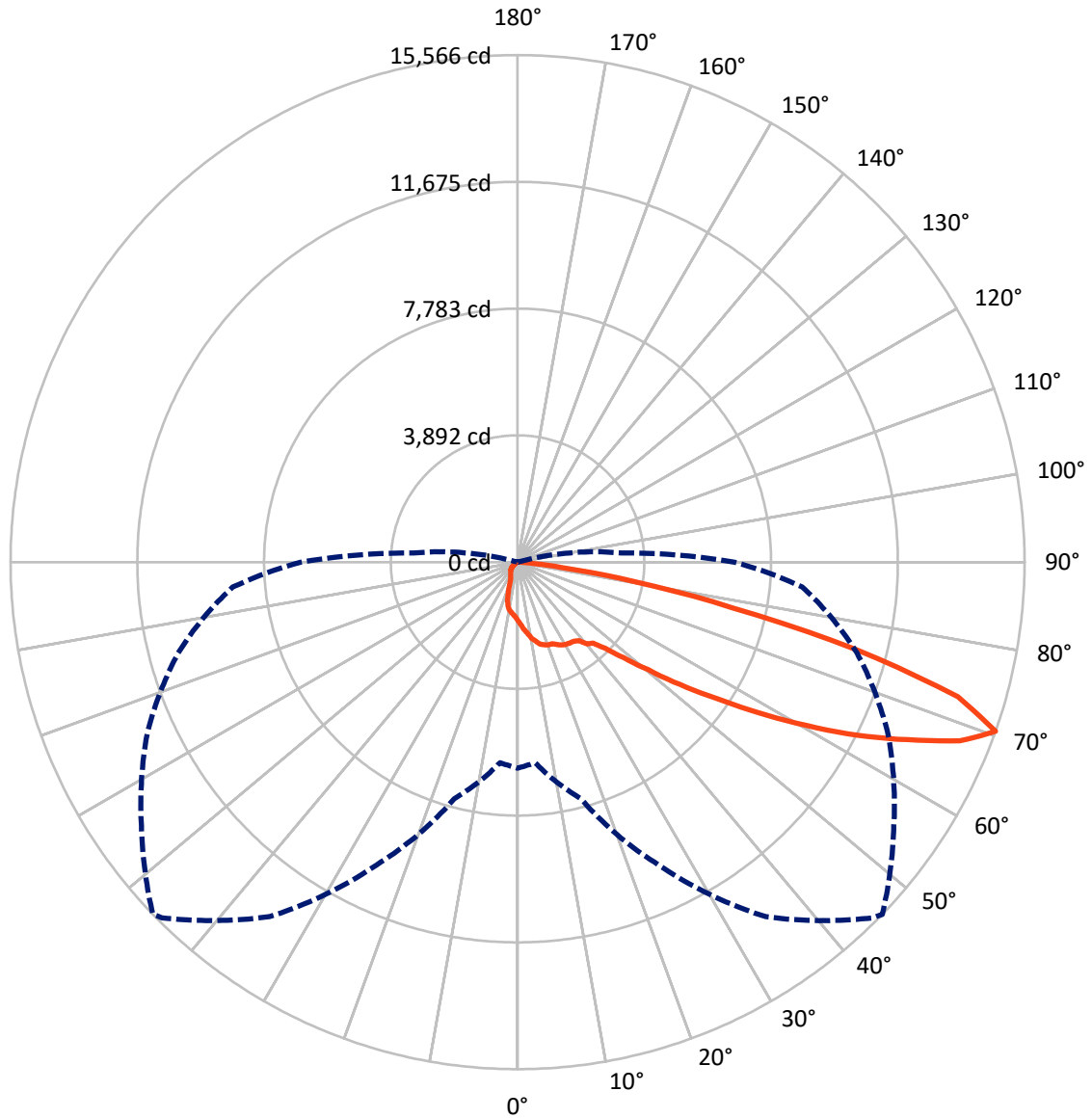
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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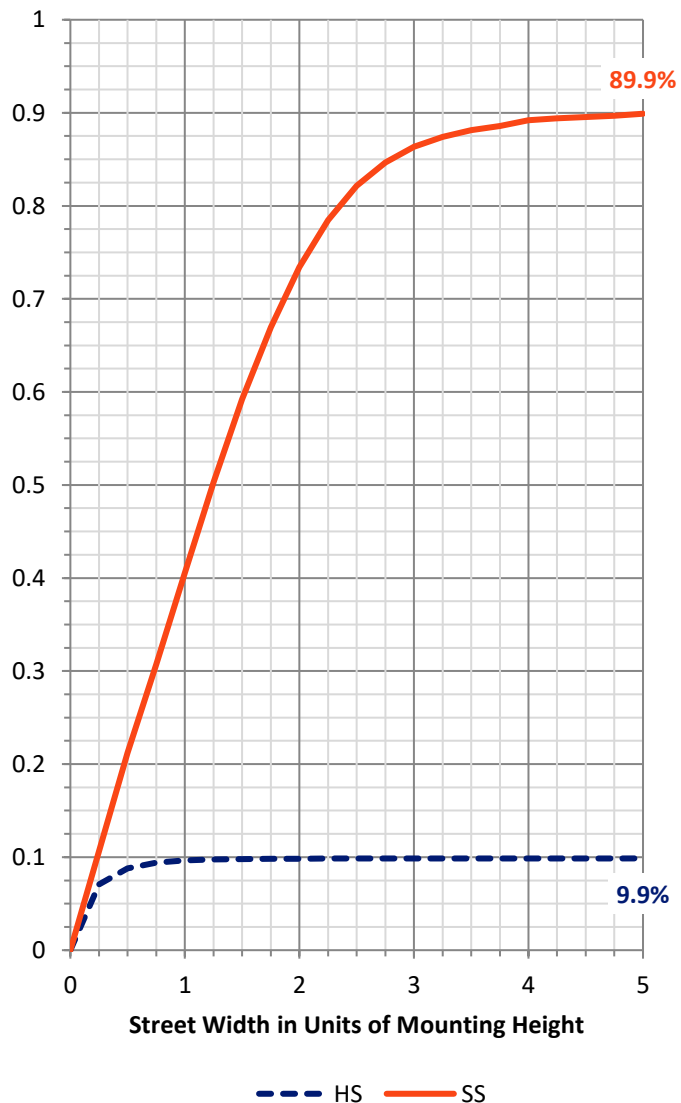
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1825.0	0.0	1825.0
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	16516.3	0.0	16516.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	18341.3	0.0	18341.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	1.0
10°-20°	542.2	3.0
20°-30°	868.5	4.7
30°-40°	1239.6	6.8
40°-50°	2140.5	11.7
50°-60°	4098.1	22.3
60°-70°	6068.6	33.1
70°-80°	3005.7	16.4
80°-90°	198.6	1.1
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°	18341.3	100.0
0°-180°	18341.3	100.0

Coefficient of Utilization



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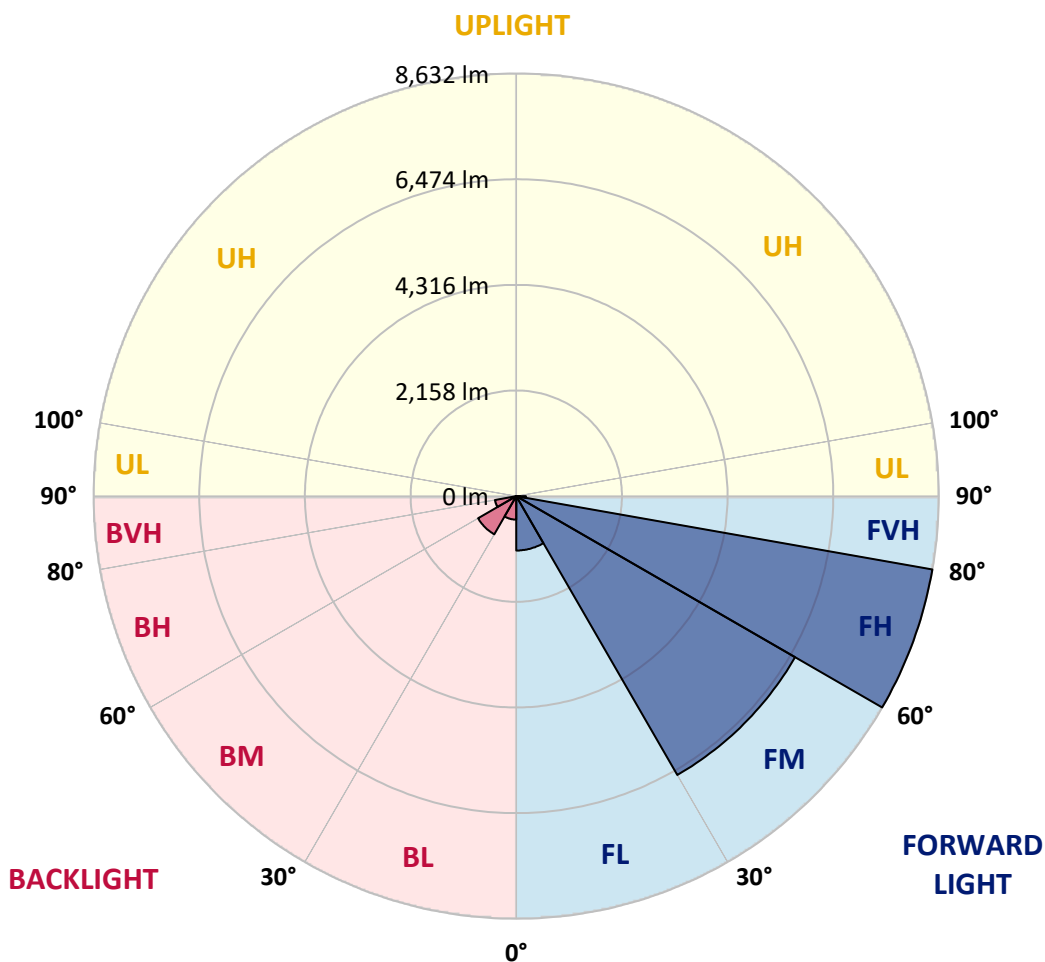
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1110.7	6.1			
FM (30°-60°)	6577.1	35.9			
FH (60°-80°)	8632.3	47.1			G4/12000
FVH (80°-90°)	196.1	1.1			G2/225
BL (0°-30°)	479.5	2.6	B1/500		
BM (30°-60°)	901.0	4.9	B1/1000		
BH (60°-80°)	442.0	2.4	B1/500		G1/500
BVH (80°-90°)	2.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5
2.5°	2009.1	1995.9	1974.8	1966.9	1945.7	1935.2	1919.3	1911.4	1882.4	1853.3	1834.9
5°	2254.6	2223.0	2233.5	2201.8	2133.2	2077.8	2075.1	2014.4	1948.4	1895.6	1824.3
7.5°	2502.8	2476.4	2436.8	2391.9	2315.4	2233.5	2209.8	2151.7	2059.3	1966.9	1871.8
10°	2690.3	2671.8	2637.5	2574.1	2468.5	2376.1	2378.7	2281.0	2183.4	2077.8	1948.4
12.5°	2806.4	2814.3	2764.2	2700.8	2608.4	2492.2	2489.6	2423.6	2312.7	2201.8	2048.7
15°	2922.6	2951.6	2875.1	2801.1	2682.3	2597.8	2613.7	2534.5	2426.2	2299.5	2130.6
17.5°	2941.1	2949.0	2933.1	2824.9	2737.8	2666.5	2669.1	2616.3	2534.5	2397.2	2252.0
20°	2909.4	2904.1	2885.6	2806.4	2748.3	2706.1	2708.7	2695.5	2650.7	2539.8	2341.8
22.5°	2817.0	2817.0	2793.2	2740.4	2714.0	2753.6	2721.9	2772.1	2724.6	2658.6	2494.9
25°	2743.1	2772.1	2758.9	2724.6	2735.1	2787.9	2803.8	2851.3	2843.4	2761.5	2600.5
27.5°	2822.3	2787.9	2795.9	2756.3	2795.9	2875.1	2883.0	2917.3	2914.7	2848.7	2695.5
30°	2875.1	2906.7	2846.0	2758.9	2801.1	2935.8	2930.5	2975.4	2996.5	2917.3	2785.3
32.5°	3044.0	3017.6	2967.5	2851.3	2856.6	2933.1	2956.9	3015.0	3028.2	2980.7	2872.4
35°	3389.9	3350.3	3131.1	2956.9	2930.5	2967.5	2983.3	3096.8	3120.6	3067.8	2964.8
37.5°	3923.2	3833.4	3569.4	3183.9	3065.1	3057.2	3057.2	3207.7	3297.5	3176.0	3102.1
40°	4686.2	4559.4	4274.3	3603.7	3242.0	3273.7	3305.4	3387.2	3376.7	3297.5	3281.6
42.5°	5657.7	5560.0	5251.1	4308.6	3580.0	3421.6	3395.2	3506.0	3672.4	3640.7	3630.1
45°	6468.2	6473.5	6275.5	5274.9	4163.4	3762.1	3780.6	3865.1	4144.9	4121.2	4118.5
47.5°	7059.6	6985.7	6956.6	6206.9	5013.5	4409.0	4382.6	4440.6	4805.0	4955.5	5024.1
50°	7598.2	7548.0	7479.4	7112.4	6035.2	5219.5	5193.1	5198.3	5755.4	5966.6	6135.6
52.5°	8266.1	8329.5	8102.4	7878.0	7357.9	6272.9	6243.8	6140.9	6832.6	7123.0	7323.6
55°	9089.8	8971.0	8714.9	8831.1	8622.5	7410.7	7357.9	7236.5	8060.2	8181.6	8392.8
57.5°	9272.0	9182.2	9446.2	9858.1	10058.7	8746.6	8725.5	8506.4	9092.5	8981.6	9578.2
60°	9726.1	9749.9	10116.8	10935.3	11283.7	10288.4	10185.5	9800.0	10093.1	10114.2	10750.4
62.5°	10193.4	10137.9	10959.0	11745.8	12281.7	11748.4	11714.1	10948.5	11281.1	11011.8	11854.0
65°	9850.2	9934.7	11109.5	12426.9	13575.3	13176.7	13147.7	12054.7	12236.8	11901.5	12302.8
67.5°	8630.5	8458.9	10103.6	12115.4	14240.6	14673.6	14641.9	13261.2	12775.4	11896.2	11370.9
70°	6325.7	6177.8	7519.0	10259.4	13287.6	15439.3	15566.0	14100.7	12556.3	10787.4	8773.0
72.5°	3099.5	3102.1	4213.6	6956.6	10512.8	14071.7	14135.0	12928.5	10787.4	7952.0	4968.7
75°	916.1	926.7	1560.3	3411.0	6795.6	10687.1	10758.4	9813.2	7476.7	4108.0	1694.9
77.5°	335.3	335.3	517.5	1280.4	3389.9	6745.4	6740.2	6024.7	3785.9	1391.3	396.0
80°	174.2	182.2	269.3	522.7	1467.9	3514.0	3646.0	2949.0	1438.8	586.1	116.2
82.5°	71.3	79.2	147.8	269.3	704.9	1232.9	1349.1	1156.4	625.7	409.2	52.8
85°	21.1	23.8	71.3	150.5	277.2	308.9	343.2	388.1	393.4	316.8	23.8
87.5°	2.6	2.6	29.0	50.2	60.7	66.0	76.6	76.6	200.6	221.8	13.2
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°	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5
2.5°	1813.7	1800.5	1779.4	1731.9	1721.3	1687.0	1684.4	1652.7	1663.3	1642.1	1634.2
5°	1800.5	1771.5	1713.4	1676.5	1639.5	1615.7	1599.9	1586.7	1584.1	1573.5	1568.2
7.5°	1824.3	1784.7	1694.9	1636.9	1573.5	1552.4	1518.1	1515.4	1496.9	1478.5	1478.5
10°	1903.5	1832.2	1734.5	1636.9	1555.0	1486.4	1407.2	1349.1	1328.0	1280.4	1285.7
12.5°	1966.9	1903.5	1760.9	1660.6	1536.5	1380.8	1206.5	1071.9	1008.5	947.8	971.6
15°	2056.6	1964.2	1811.1	1665.9	1465.3	1196.0	910.8	760.3	702.3	689.1	686.4
17.5°	2154.3	2056.6	1874.5	1652.7	1320.0	924.0	670.6	583.5	594.0	609.9	607.2
20°	2262.6	2143.8	1922.0	1607.8	1090.4	670.6	549.1	546.5	562.3	586.1	591.4
22.5°	2376.1	2273.1	1980.1	1473.2	813.1	538.6	528.0	528.0	538.6	567.6	562.3
25°	2502.8	2365.5	2009.1	1264.6	583.5	496.3	501.6	512.2	517.5	541.2	543.9
27.5°	2600.5	2468.5	2017.0	1013.8	475.2	459.4	472.6	485.8	493.7	512.2	520.1
30°	2690.3	2597.8	1974.8	755.1	435.6	427.7	433.0	451.5	467.3	483.1	483.1
32.5°	2803.8	2671.8	1877.1	535.9	411.9	398.7	396.0	403.9	422.4	440.9	440.9
35°	2919.9	2795.9	1721.3	430.3	390.7	372.3	361.7	353.8	361.7	374.9	385.5
37.5°	3088.9	2983.3	1526.0	396.0	374.9	348.5	327.4	308.9	295.7	293.1	301.0
40°	3329.2	3194.5	1275.2	372.3	356.4	324.7	293.1	261.4	232.3	213.8	216.5
42.5°	3693.5	3506.0	1003.2	359.1	343.2	298.3	253.4	208.6	171.6	153.1	153.1
45°	4213.6	3917.9	736.6	345.9	327.4	266.6	208.6	155.8	118.8	108.2	110.9
47.5°	4997.7	4414.2	528.0	324.7	306.3	232.3	163.7	110.9	87.1	81.8	84.5
50°	6022.0	5003.0	411.9	301.0	279.8	195.4	121.4	81.8	68.6	66.0	68.6
52.5°	7096.6	5597.0	361.7	279.8	240.2	155.8	89.8	66.0	58.1	55.4	58.1
55°	8015.3	5979.8	314.2	248.2	192.7	116.2	71.3	58.1	50.2	42.2	42.2
57.5°	8944.6	6172.5	248.2	205.9	142.6	87.1	60.7	50.2	42.2	34.3	31.7
60°	9699.7	6309.8	176.9	153.1	100.3	68.6	52.8	44.9	34.3	26.4	23.8
62.5°	10196.0	5916.4	129.4	116.2	73.9	58.1	44.9	37.0	26.4	18.5	18.5
65°	9950.5	5372.6	100.3	81.8	55.4	44.9	37.0	26.4	18.5	10.6	7.9
67.5°	8928.8	4377.3	81.8	60.7	42.2	34.3	29.0	21.1	10.6	2.6	2.6
70°	6660.9	3207.7	66.0	44.9	34.3	26.4	21.1	13.2	5.3	2.6	0.0
72.5°	3643.3	1755.7	52.8	37.0	26.4	21.1	15.8	10.6	5.3	0.0	0.0
75°	1203.9	467.3	39.6	26.4	15.8	13.2	10.6	7.9	2.6	0.0	0.0
77.5°	290.4	121.4	31.7	23.8	13.2	7.9	5.3	2.6	2.6	0.0	0.0
80°	89.8	50.2	23.8	15.8	10.6	7.9	2.6	0.0	0.0	0.0	0.0
82.5°	37.0	23.8	10.6	10.6	7.9	2.6	0.0	0.0	0.0	0.0	0.0
85°	18.5	13.2	7.9	5.3	5.3	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	13.2	5.3	2.6	2.6	0.0	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)