

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: P483522

Luminaire Tested: **IFLD-M-SA4D-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483522
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

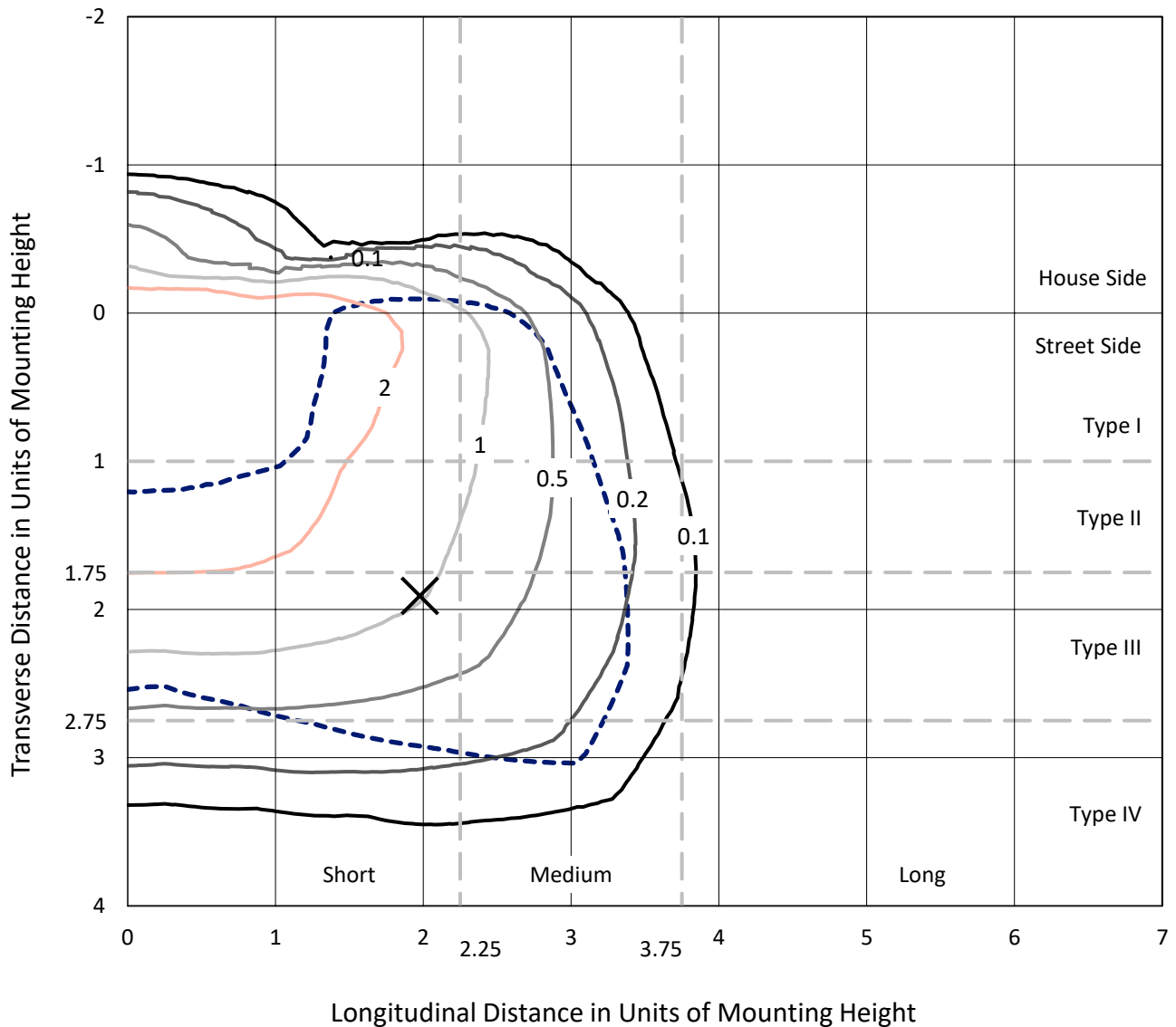
Lumens per Lamp: N/A
Luminaire Lumens: 19303.8 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

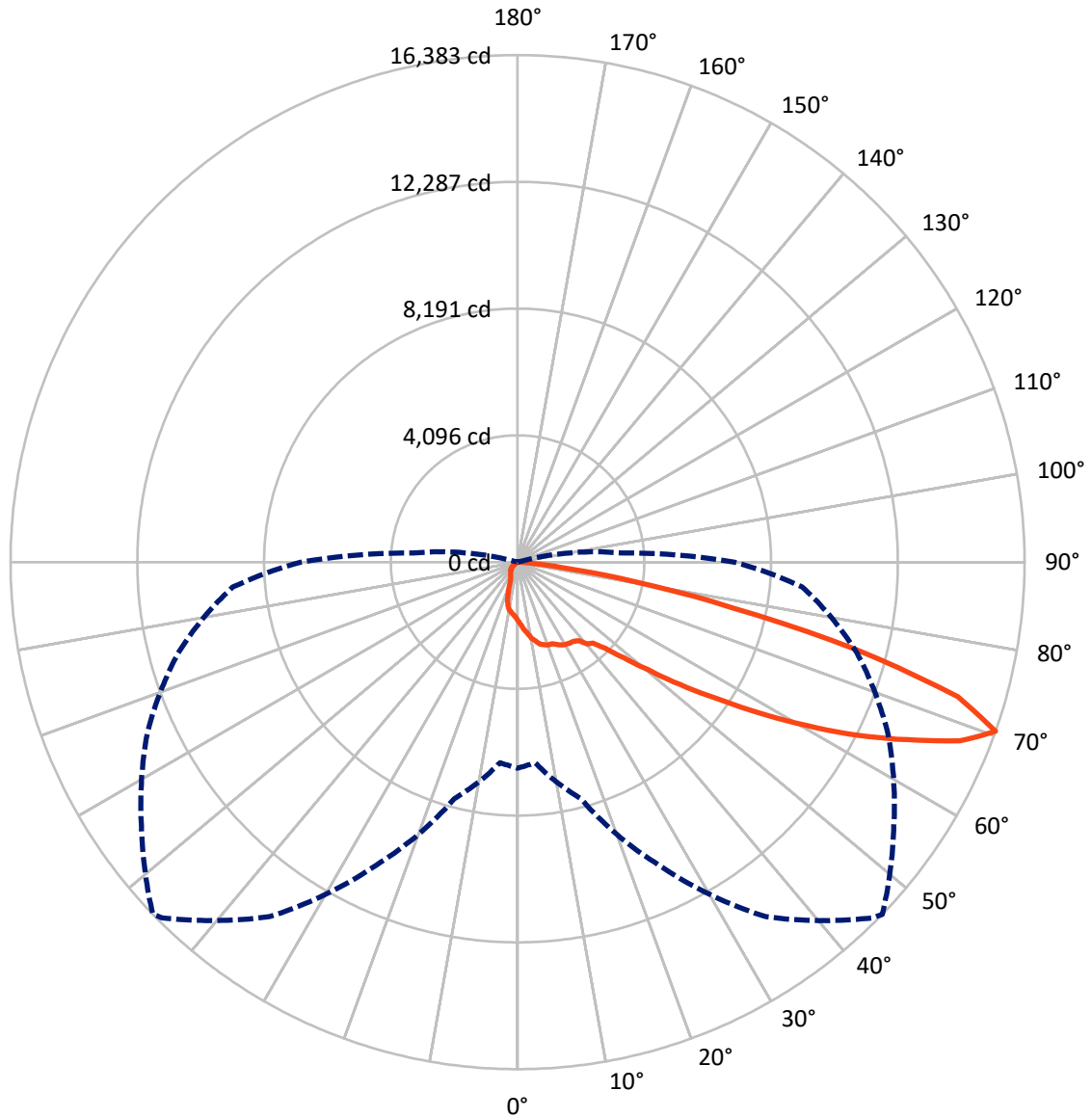
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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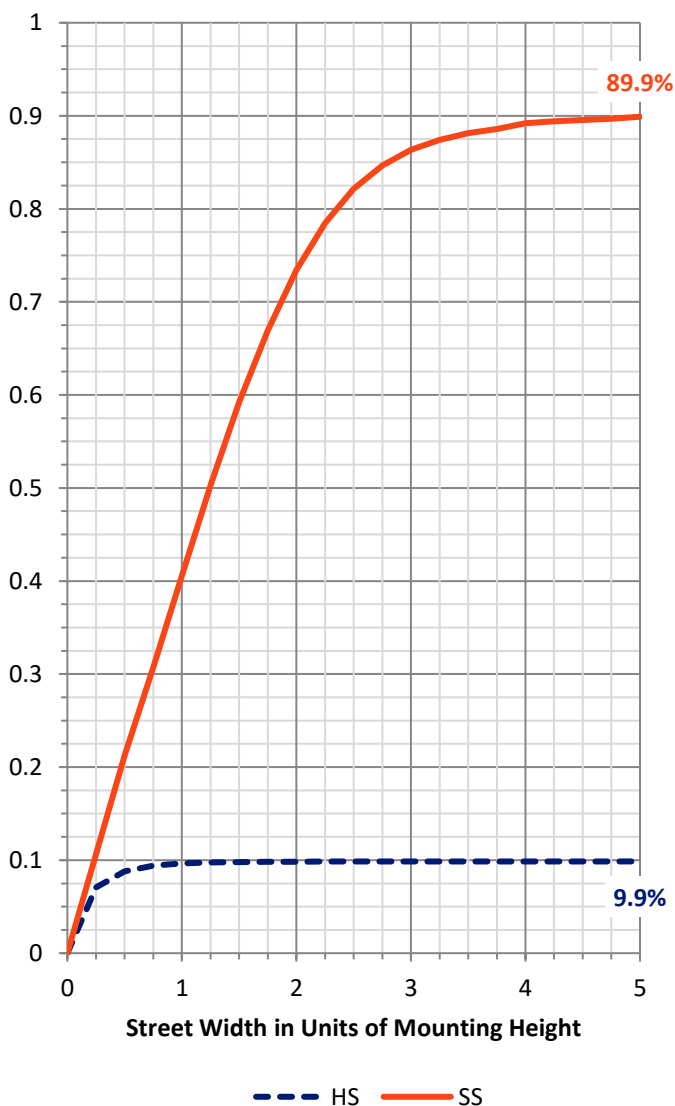
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1920.8	0.0	1920.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	17383.0	0.0	17383.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	19303.8	0.0	19303.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	1.0
10°-20°	570.6	3.0
20°-30°	914.0	4.7
30°-40°	1304.7	6.8
40°-50°	2252.8	11.7
50°-60°	4313.2	22.3
60°-70°	6387.1	33.1
70°-80°	3163.5	16.4
80°-90°	209.0	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°	19303.8	100.0
0°-180°	19303.8	100.0

Coefficient of Utilization



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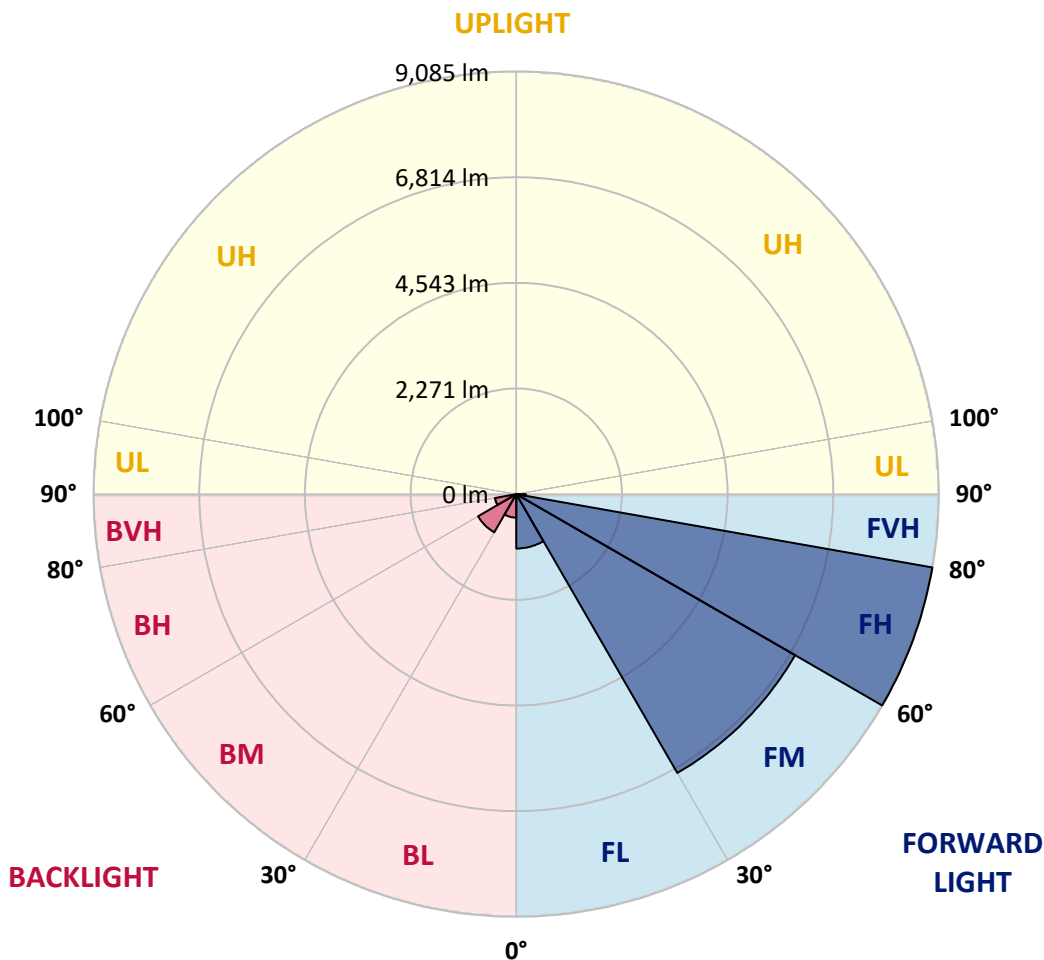
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.0	6.1			
FM (30°-60°)	6922.3	35.9			
FH (60°-80°)	9085.4	47.1			G4/12000
FVH (80°-90°)	206.4	1.1			G2/225
BL (0°-30°)	504.6	2.6	B2/1000		
BM (30°-60°)	948.3	4.9	B1/1000		
BH (60°-80°)	465.2	2.4	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0
2.5°	2114.5	2100.7	2078.4	2070.1	2047.9	2036.7	2020.1	2011.7	1981.2	1950.6	1931.2
5°	2373.0	2339.6	2350.7	2317.4	2245.1	2186.8	2184.0	2120.1	2050.6	1995.1	1920.0
7.5°	2634.2	2606.4	2564.7	2517.4	2436.9	2350.7	2325.7	2264.6	2167.3	2070.1	1970.1
10°	2831.4	2812.0	2775.9	2709.2	2598.0	2500.8	2503.6	2400.7	2297.9	2186.8	2050.6
12.5°	2953.7	2962.0	2909.2	2842.5	2745.3	2623.0	2620.3	2550.8	2434.1	2317.4	2156.2
15°	3076.0	3106.5	3025.9	2948.1	2823.1	2734.2	2750.9	2667.5	2553.6	2420.2	2242.4
17.5°	3095.4	3103.7	3087.1	2973.1	2881.5	2806.4	2809.2	2753.6	2667.5	2523.0	2370.2
20°	3062.1	3056.5	3037.1	2953.7	2892.6	2848.1	2850.9	2837.0	2789.8	2673.1	2464.7
22.5°	2964.8	2964.8	2939.8	2884.2	2856.4	2898.1	2864.8	2917.6	2867.6	2798.1	2625.8
25°	2887.0	2917.6	2903.7	2867.6	2878.7	2934.2	2950.9	3000.9	2992.6	2906.5	2737.0
27.5°	2970.4	2934.2	2942.6	2900.9	2942.6	3025.9	3034.3	3070.4	3067.6	2998.2	2837.0
30°	3025.9	3059.3	2995.4	2903.7	2948.1	3089.8	3084.3	3131.5	3153.8	3070.4	2931.5
32.5°	3203.8	3176.0	3123.2	3000.9	3006.5	3087.1	3112.1	3173.2	3187.1	3137.1	3023.2
35°	3567.8	3526.1	3295.5	3112.1	3084.3	3123.2	3139.9	3259.3	3284.4	3228.8	3120.4
37.5°	4129.1	4034.6	3756.7	3351.0	3226.0	3217.7	3217.7	3376.0	3470.5	3342.7	3264.9
40°	4932.1	4798.7	4498.6	3792.8	3412.2	3445.5	3478.9	3565.0	3553.9	3470.5	3453.9
42.5°	5954.6	5851.8	5526.7	4534.7	3767.8	3601.1	3573.3	3690.0	3865.1	3831.7	3820.6
45°	6807.7	6813.2	6604.8	5551.7	4381.9	3959.6	3979.0	4067.9	4362.5	4337.5	4334.7
47.5°	7430.1	7352.3	7321.7	6532.6	5276.6	4640.3	4612.5	4673.7	5057.1	5215.5	5287.8
50°	7996.9	7944.1	7871.9	7485.7	6352.0	5493.4	5465.6	5471.1	6057.4	6279.7	6457.6
52.5°	8699.9	8766.6	8527.6	8291.5	7744.1	6602.1	6571.5	6463.1	7191.1	7496.8	7707.9
55°	9566.9	9441.8	9172.3	9294.6	9075.0	7799.6	7744.1	7616.3	8483.2	8611.0	8833.3
57.5°	9758.6	9664.1	9942.0	10375.4	10586.6	9205.6	9183.4	8952.8	9569.6	9452.9	10080.9
60°	10236.5	10261.5	10647.8	11509.1	11875.9	10828.4	10720.0	10314.3	10622.7	10645.0	11314.6
62.5°	10728.3	10670.0	11534.1	12362.2	12926.2	12365.0	12328.8	11523.0	11873.1	11589.7	12476.1
65°	10367.1	10456.0	11692.5	13079.1	14287.8	13868.2	13837.6	12687.3	12879.0	12526.1	12948.5
67.5°	9083.4	8902.8	10633.9	12751.2	14988.0	15443.7	15410.3	13957.1	13445.8	12520.6	11967.6
70°	6657.6	6502.0	7913.6	10797.8	13984.9	16249.5	16382.9	14840.7	13215.2	11353.5	9233.4
72.5°	3262.1	3264.9	4434.7	7321.7	11064.5	14810.2	14876.8	13607.0	11353.5	8369.3	5229.4
75°	964.2	975.3	1642.2	3590.0	7152.2	11247.9	11323.0	10328.2	7869.1	4323.6	1783.9
77.5°	352.9	352.9	544.6	1347.6	3567.8	7099.4	7093.9	6340.9	3984.6	1464.3	416.8
80°	183.4	191.7	283.4	550.2	1544.9	3698.4	3837.3	3103.7	1514.4	616.9	122.3
82.5°	75.0	83.4	155.6	283.4	741.9	1297.6	1419.9	1217.0	658.5	430.7	55.6
85°	22.2	25.0	75.0	158.4	291.8	325.1	361.2	408.5	414.0	333.4	25.0
87.5°	2.8	2.8	30.6	52.8	63.9	69.5	80.6	80.6	211.2	233.4	13.9
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°	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0	1895.0
2.5°	1908.9	1895.0	1872.8	1822.8	1811.7	1775.6	1772.8	1739.4	1750.5	1728.3	1720.0
5°	1895.0	1864.5	1803.3	1764.4	1725.5	1700.5	1683.9	1670.0	1667.2	1656.1	1650.5
7.5°	1920.0	1878.4	1783.9	1722.8	1656.1	1633.8	1597.7	1594.9	1575.5	1556.0	1556.0
10°	2003.4	1928.4	1825.6	1722.8	1636.6	1564.4	1481.0	1419.9	1397.7	1347.6	1353.2
12.5°	2070.1	2003.4	1853.4	1747.8	1617.2	1453.2	1269.8	1128.1	1061.4	997.5	1022.5
15°	2164.6	2067.3	1906.1	1753.3	1542.1	1258.7	958.6	800.2	739.1	725.2	722.4
17.5°	2267.4	2164.6	1972.8	1739.4	1389.3	972.5	705.8	614.1	625.2	641.9	639.1
20°	2381.3	2256.3	2022.9	1692.2	1147.6	705.8	578.0	575.2	591.9	616.9	622.4
22.5°	2500.8	2392.4	2084.0	1550.5	855.8	566.8	555.7	555.7	566.8	597.4	591.9
25°	2634.2	2489.7	2114.5	1331.0	614.1	522.4	527.9	539.1	544.6	569.6	572.4
27.5°	2737.0	2598.0	2122.9	1067.0	500.2	483.5	497.4	511.3	519.6	539.1	547.4
30°	2831.4	2734.2	2078.4	794.7	458.5	450.1	455.7	475.1	491.8	508.5	508.5
32.5°	2950.9	2812.0	1975.6	564.1	433.5	419.6	416.8	425.1	444.6	464.0	464.0
35°	3073.2	2942.6	1811.7	452.9	411.2	391.8	380.7	372.3	380.7	394.6	405.7
37.5°	3251.0	3139.9	1606.1	416.8	394.6	366.8	344.6	325.1	311.2	308.4	316.8
40°	3503.9	3362.2	1342.1	391.8	375.1	341.8	308.4	275.1	244.5	225.1	227.8
42.5°	3887.3	3690.0	1055.9	377.9	361.2	314.0	266.7	219.5	180.6	161.2	161.2
45°	4434.7	4123.5	775.2	364.0	344.6	280.6	219.5	163.9	125.0	113.9	116.7
47.5°	5260.0	4645.9	555.7	341.8	322.3	244.5	172.3	116.7	91.7	86.1	88.9
50°	6338.1	5265.5	433.5	316.8	294.5	205.6	127.8	86.1	72.2	69.5	72.2
52.5°	7469.0	5890.7	380.7	294.5	252.9	163.9	94.5	69.5	61.1	58.4	61.1
55°	8436.0	6293.6	330.7	261.2	202.8	122.3	75.0	61.1	52.8	44.5	44.5
57.5°	9414.0	6496.5	261.2	216.7	150.0	91.7	63.9	52.8	44.5	36.1	33.3
60°	10208.7	6641.0	186.2	161.2	105.6	72.2	55.6	47.2	36.1	27.8	25.0
62.5°	10731.1	6226.9	136.2	122.3	77.8	61.1	47.2	38.9	27.8	19.5	19.5
65°	10472.7	5654.5	105.6	86.1	58.4	47.2	38.9	27.8	19.5	11.1	8.3
67.5°	9397.4	4607.0	86.1	63.9	44.5	36.1	30.6	22.2	11.1	2.8	2.8
70°	7010.5	3376.0	69.5	47.2	36.1	27.8	22.2	13.9	5.6	2.8	0.0
72.5°	3834.5	1847.8	55.6	38.9	27.8	22.2	16.7	11.1	5.6	0.0	0.0
75°	1267.1	491.8	41.7	27.8	16.7	13.9	11.1	8.3	2.8	0.0	0.0
77.5°	305.7	127.8	33.3	25.0	13.9	8.3	5.6	2.8	2.8	0.0	0.0
80°	94.5	52.8	25.0	16.7	11.1	8.3	2.8	0.0	0.0	0.0	0.0
82.5°	38.9	25.0	11.1	11.1	8.3	2.8	0.0	0.0	0.0	0.0	0.0
85°	19.5	13.9	8.3	5.6	5.6	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	5.6	2.8	2.8	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)