

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: P483561

Luminaire Tested: **IFLD-M-SA4D-730-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483561
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

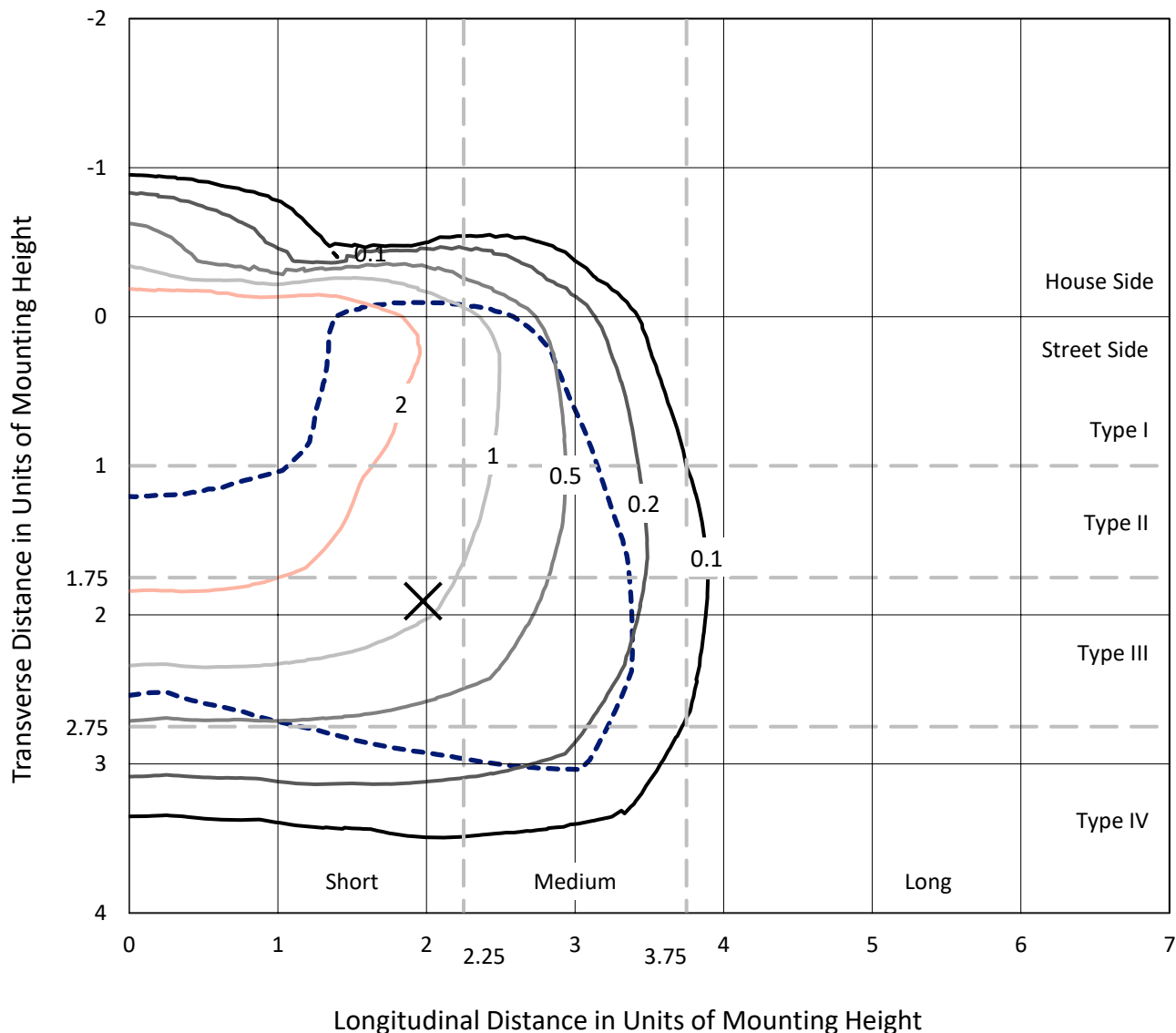
Lumens per Lamp: N/A
Luminaire Lumens: 21018.8 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

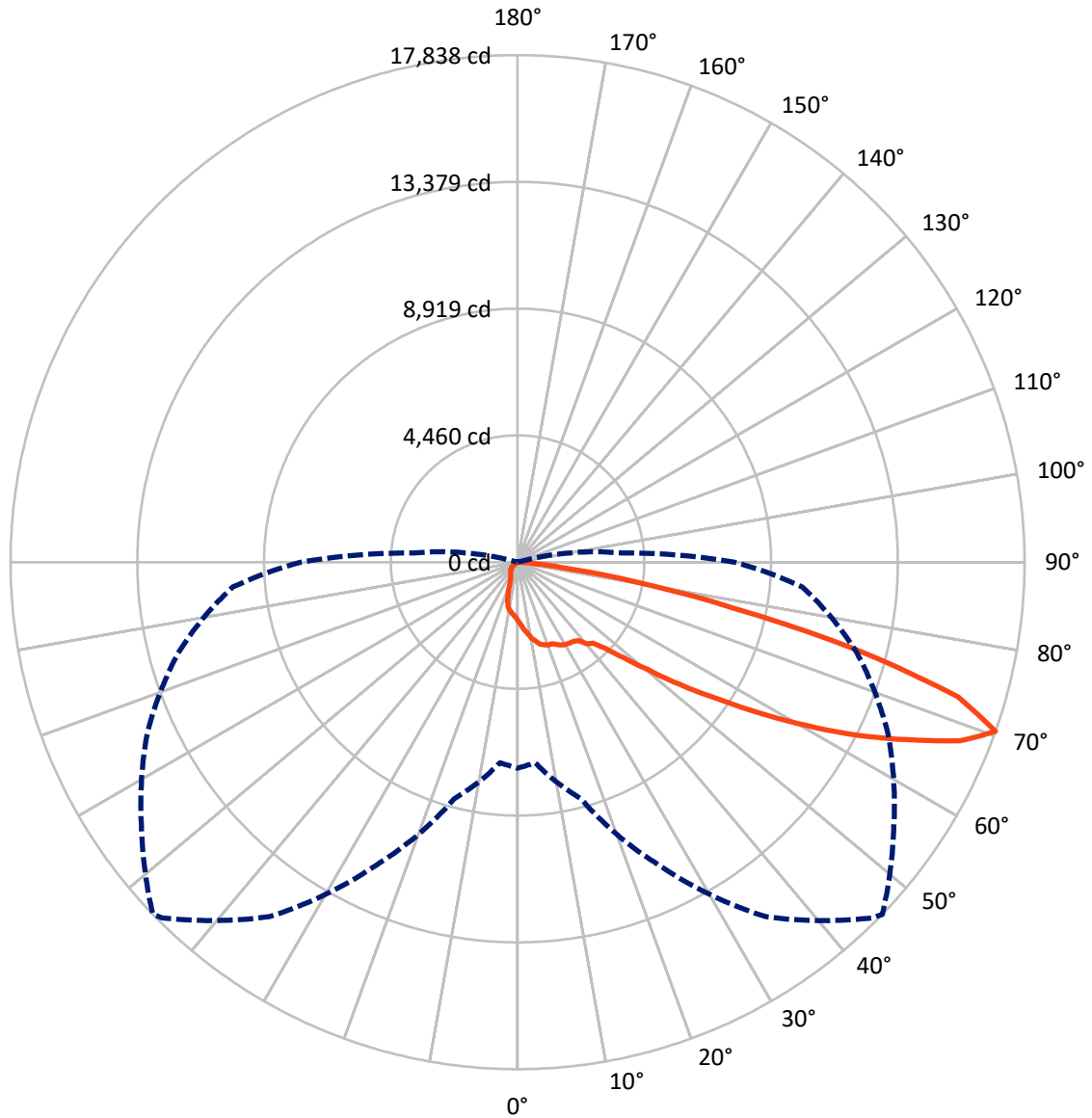
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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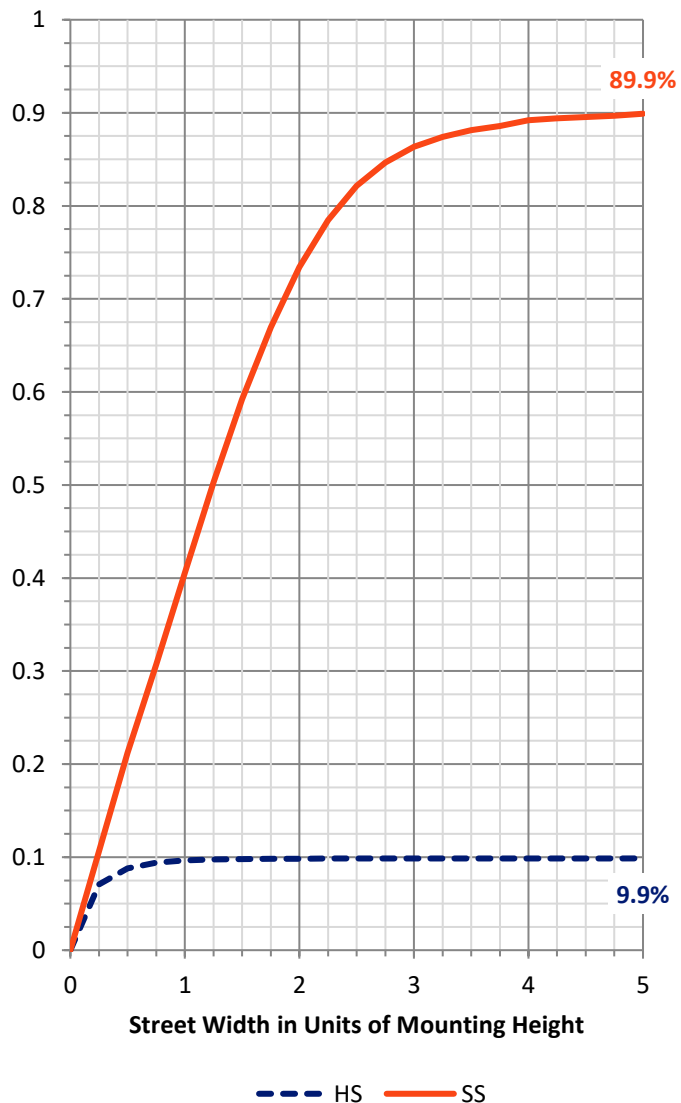
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2091.4	0.0	2091.4
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	18927.4	0.0	18927.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	21018.8	0.0	21018.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	1.0
10°-20°	621.3	3.0
20°-30°	995.2	4.7
30°-40°	1420.6	6.8
40°-50°	2452.9	11.7
50°-60°	4696.4	22.3
60°-70°	6954.6	33.1
70°-80°	3444.5	16.4
80°-90°	227.6	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°	21018.8	100.0
0°-180°	21018.8	100.0

Coefficient of Utilization



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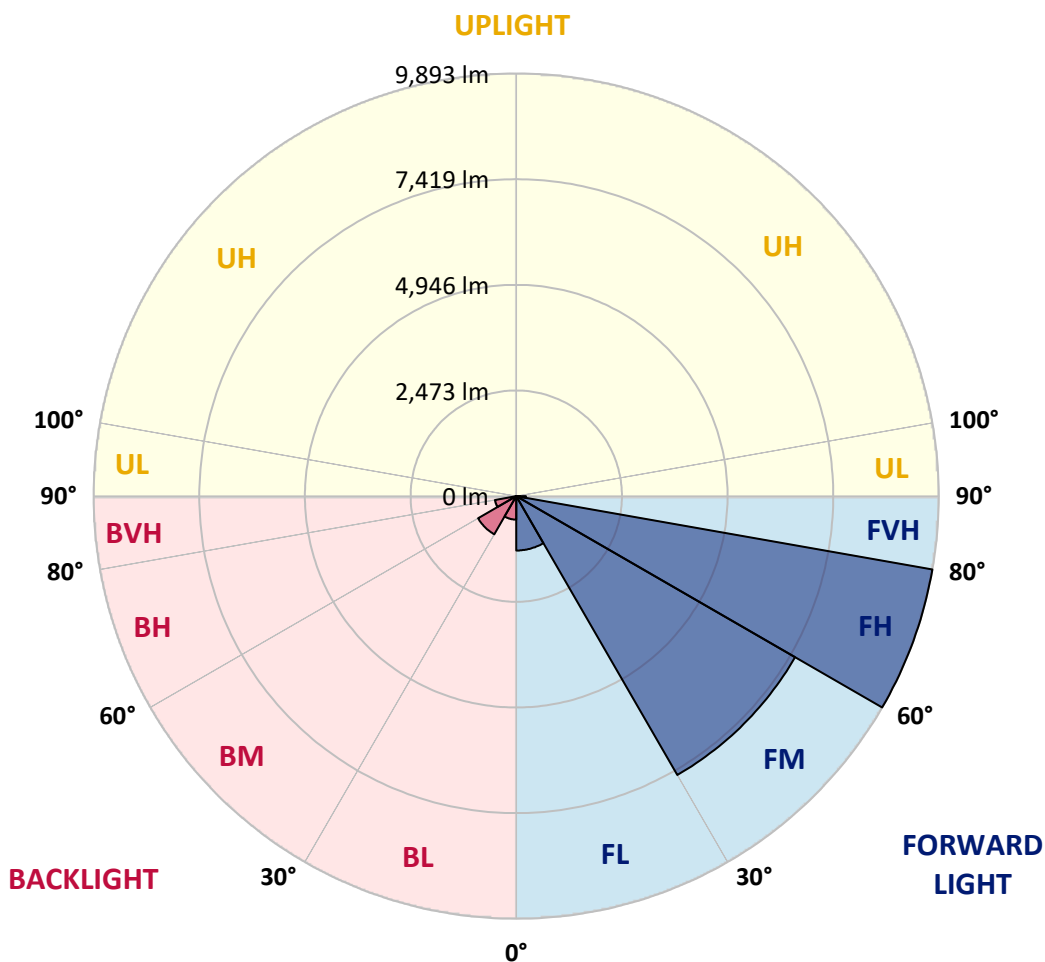
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1272.8	6.1			
FM (30°-60°)	7537.3	35.9			
FH (60°-80°)	9892.5	47.1			G4/12000
FVH (80°-90°)	224.7	1.1			G2/225
BL (0°-30°)	549.5	2.6	B2/1000		
BM (30°-60°)	1032.5	4.9	B2/2500		
BH (60°-80°)	506.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4
2.5°	2302.4	2287.3	2263.1	2254.0	2229.8	2217.7	2199.5	2190.5	2157.2	2123.9	2102.7
5°	2583.8	2547.5	2559.6	2523.3	2444.6	2381.1	2378.0	2308.5	2232.8	2172.3	2090.6
7.5°	2868.2	2837.9	2792.5	2741.1	2653.4	2559.6	2532.3	2465.8	2359.9	2254.0	2145.1
10°	3083.0	3061.8	3022.5	2949.9	2828.8	2723.0	2726.0	2614.0	2502.1	2381.1	2232.8
12.5°	3216.1	3225.2	3167.7	3095.1	2989.2	2856.1	2853.1	2777.4	2650.3	2523.3	2347.8
15°	3349.2	3382.5	3294.8	3210.1	3073.9	2977.1	2995.3	2904.5	2780.4	2635.2	2441.6
17.5°	3370.4	3379.5	3361.3	3237.3	3137.4	3055.8	3058.8	2998.3	2904.5	2747.2	2580.8
20°	3334.1	3328.1	3306.9	3216.1	3149.6	3101.1	3104.2	3089.0	3037.6	2910.5	2683.6
22.5°	3228.2	3228.2	3201.0	3140.5	3110.2	3155.6	3119.3	3176.8	3122.3	3046.7	2859.1
25°	3143.5	3176.8	3161.7	3122.3	3134.4	3194.9	3213.1	3267.5	3258.5	3164.7	2980.1
27.5°	3234.3	3194.9	3204.0	3158.6	3204.0	3294.8	3303.9	3343.2	3340.2	3264.5	3089.0
30°	3294.8	3331.1	3261.5	3161.7	3210.1	3364.4	3358.3	3409.7	3433.9	3343.2	3191.9
32.5°	3488.4	3458.2	3400.7	3267.5	3273.6	3361.3	3388.6	3455.1	3470.3	3415.8	3291.7
35°	3884.7	3839.4	3588.2	3388.6	3358.3	3400.7	3418.8	3548.9	3576.1	3515.6	3397.6
37.5°	4495.9	4393.0	4090.5	3648.8	3512.6	3503.5	3503.5	3676.0	3778.9	3639.7	3555.0
40°	5370.3	5225.0	4898.3	4129.8	3715.3	3751.6	3787.9	3881.7	3869.6	3778.9	3760.7
42.5°	6483.7	6371.7	6017.7	4937.6	4102.6	3921.1	3890.8	4017.9	4208.5	4172.2	4160.1
45°	7412.5	7418.5	7191.6	6045.0	4771.2	4311.3	4332.5	4429.3	4750.0	4722.8	4719.8
47.5°	8090.2	8005.5	7972.2	7113.0	5745.4	5052.6	5022.3	5088.9	5506.4	5678.9	5757.5
50°	8707.4	8649.9	8571.3	8150.7	6916.3	5981.4	5951.2	5957.2	6595.6	6837.6	7031.3
52.5°	9472.9	9545.5	9285.3	9028.1	8432.1	7188.6	7155.3	7037.3	7830.0	8162.8	8392.8
55°	10416.8	10280.7	9987.2	10120.3	9881.3	8492.6	8432.1	8292.9	9236.9	9376.0	9618.1
57.5°	10625.6	10522.7	10825.3	11297.2	11527.2	10023.5	9999.3	9748.2	10419.8	10292.8	10976.5
60°	11146.0	11173.2	11593.7	12531.6	12931.0	11790.4	11672.4	11230.7	11566.5	11590.7	12319.9
62.5°	11681.5	11617.9	12558.9	13460.5	14074.7	13463.5	13424.2	12546.8	12928.0	12619.4	13584.5
65°	11288.2	11385.0	12731.3	14241.1	15557.1	15100.3	15067.0	13814.5	14023.2	13639.0	14098.9
67.5°	9890.4	9693.7	11578.6	13884.0	16319.6	16815.8	16779.5	15197.1	14640.4	13632.9	13030.9
70°	7249.1	7079.7	8616.6	11757.1	15227.4	17693.2	17838.4	16159.2	14389.3	12362.2	10053.8
72.5°	3551.9	3555.0	4828.7	7972.2	12047.6	16125.9	16198.6	14815.9	12362.2	9112.8	5694.0
75°	1049.9	1062.0	1788.1	3909.0	7787.7	12247.2	12328.9	11245.8	8568.2	4707.7	1942.4
77.5°	384.2	384.2	593.0	1467.4	3884.7	7730.2	7724.1	6904.2	4338.6	1594.4	453.8
80°	199.7	208.8	308.6	599.1	1682.2	4026.9	4178.2	3379.5	1648.9	671.7	133.1
82.5°	81.7	90.8	169.4	308.6	807.8	1412.9	1546.0	1325.2	717.0	469.0	60.5
85°	24.2	27.2	81.7	172.5	317.7	354.0	393.3	444.7	450.8	363.1	27.2
87.5°	3.0	3.0	33.3	57.5	69.6	75.6	87.7	87.7	229.9	254.1	15.1
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°	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4
2.5°	2078.5	2063.4	2039.2	1984.7	1972.6	1933.3	1930.3	1894.0	1906.1	1881.9	1872.8
5°	2063.4	2030.1	1963.6	1921.2	1878.8	1851.6	1833.5	1818.3	1815.3	1803.2	1797.2
7.5°	2090.6	2045.2	1942.4	1875.8	1803.2	1779.0	1739.7	1736.6	1715.5	1694.3	1694.3
10°	2181.4	2099.7	1987.8	1875.8	1782.0	1703.4	1612.6	1546.0	1521.8	1467.4	1473.4
12.5°	2254.0	2181.4	2018.0	1903.0	1760.8	1582.3	1382.7	1228.4	1155.7	1086.2	1113.4
15°	2356.9	2251.0	2075.5	1909.1	1679.2	1370.6	1043.8	871.3	804.8	789.7	786.6
17.5°	2468.8	2356.9	2148.1	1894.0	1512.8	1058.9	768.5	668.6	680.7	698.9	695.9
20°	2592.9	2456.7	2202.6	1842.5	1249.5	768.5	629.3	626.3	644.4	671.7	677.7
22.5°	2723.0	2605.0	2269.1	1688.2	931.9	617.2	605.1	605.1	617.2	650.5	644.4
25°	2868.2	2710.9	2302.4	1449.2	668.6	568.8	574.8	586.9	593.0	620.2	623.3
27.5°	2980.1	2828.8	2311.5	1161.8	544.6	526.4	541.6	556.7	565.8	586.9	596.0
30°	3083.0	2977.1	2263.1	865.3	499.2	490.1	496.2	517.4	535.5	553.7	553.7
32.5°	3213.1	3061.8	2151.1	614.2	472.0	456.9	453.8	462.9	484.1	505.3	505.3
35°	3346.2	3204.0	1972.6	493.2	447.8	426.6	414.5	405.4	414.5	429.6	441.7
37.5°	3539.8	3418.8	1748.7	453.8	429.6	399.4	375.2	354.0	338.9	335.8	344.9
40°	3815.2	3660.9	1461.3	426.6	408.4	372.1	335.8	299.5	266.2	245.1	248.1
42.5°	4232.7	4017.9	1149.7	411.5	393.3	341.9	290.4	239.0	196.7	175.5	175.5
45°	4828.7	4489.9	844.1	396.3	375.2	305.6	239.0	178.5	136.1	124.0	127.1
47.5°	5727.3	5058.6	605.1	372.1	351.0	266.2	187.6	127.1	99.8	93.8	96.8
50°	6901.2	5733.3	472.0	344.9	320.7	223.9	139.2	93.8	78.7	75.6	78.7
52.5°	8132.6	6414.1	414.5	320.7	275.3	178.5	102.9	75.6	66.6	63.5	66.6
55°	9185.4	6852.8	360.0	284.4	220.9	133.1	81.7	66.6	57.5	48.4	48.4
57.5°	10250.4	7073.6	284.4	236.0	163.4	99.8	69.6	57.5	48.4	39.3	36.3
60°	11115.7	7231.0	202.7	175.5	115.0	78.7	60.5	51.4	39.3	30.3	27.2
62.5°	11684.5	6780.2	148.2	133.1	84.7	66.6	51.4	42.4	30.3	21.2	21.2
65°	11403.1	6156.9	115.0	93.8	63.5	51.4	42.4	30.3	21.2	12.1	9.1
67.5°	10232.3	5016.3	93.8	69.6	48.4	39.3	33.3	24.2	12.1	3.0	3.0
70°	7633.4	3676.0	75.6	51.4	39.3	30.3	24.2	15.1	6.1	3.0	0.0
72.5°	4175.2	2012.0	60.5	42.4	30.3	24.2	18.2	12.1	6.1	0.0	0.0
75°	1379.6	535.5	45.4	30.3	18.2	15.1	12.1	9.1	3.0	0.0	0.0
77.5°	332.8	139.2	36.3	27.2	15.1	9.1	6.1	3.0	3.0	0.0	0.0
80°	102.9	57.5	27.2	18.2	12.1	9.1	3.0	0.0	0.0	0.0	0.0
82.5°	42.4	27.2	12.1	12.1	9.1	3.0	0.0	0.0	0.0	0.0	0.0
85°	21.2	15.1	9.1	6.1	6.1	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	6.1	3.0	3.0	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)