

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: P483600

Luminaire Tested: **IFLD-M-SA4D-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483600
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

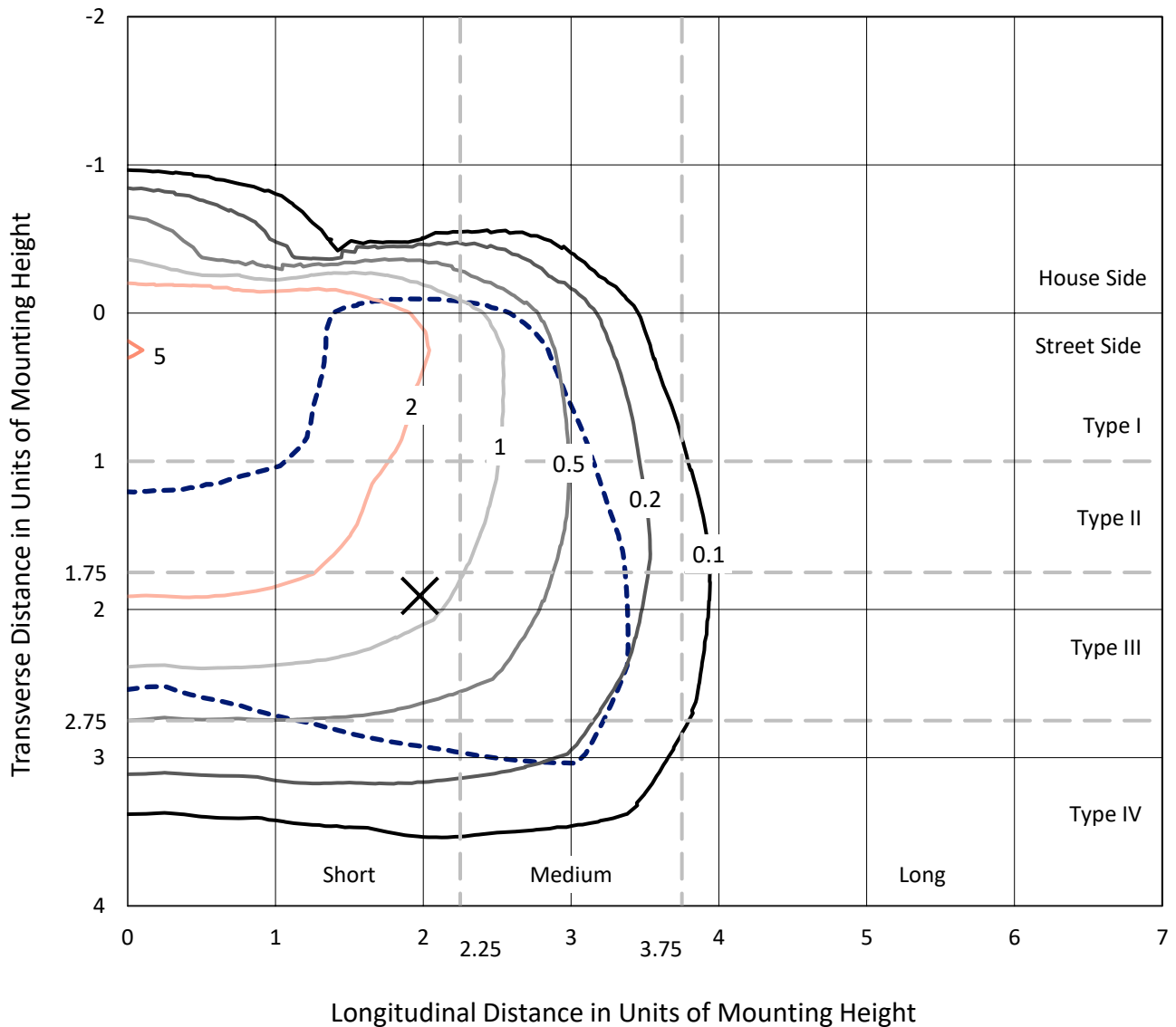
Lumens per Lamp: N/A
Luminaire Lumens: 22766.2 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

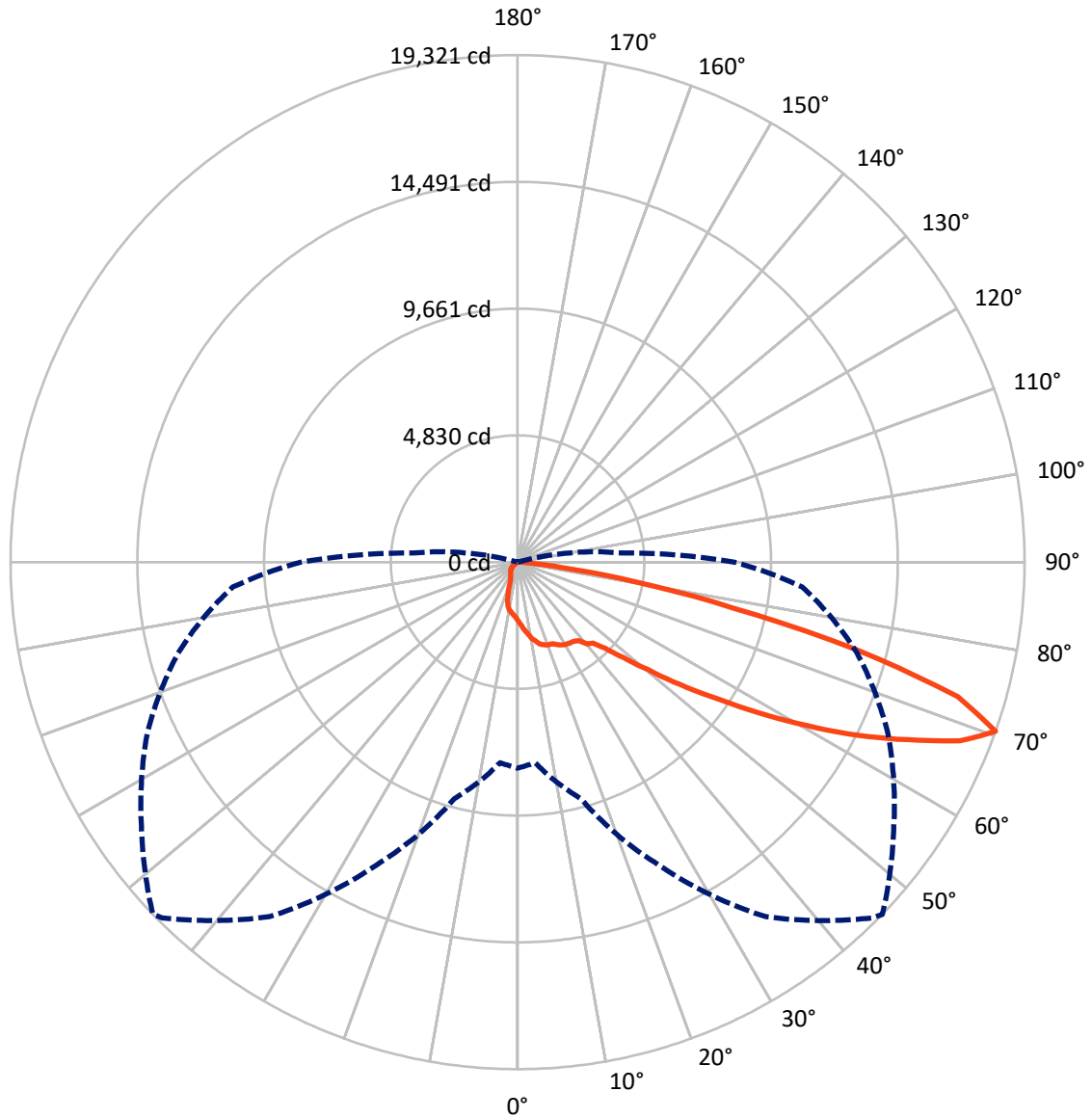
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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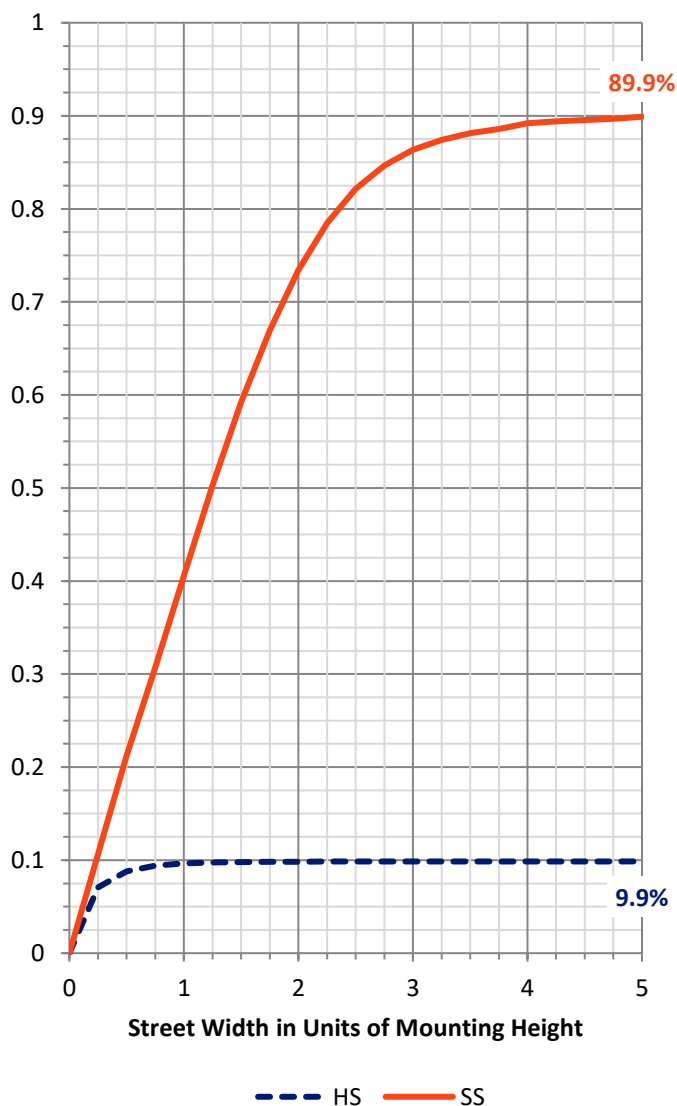
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2265.3	0.0	2265.3
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	20500.9	0.0	20500.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	22766.2	0.0	22766.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.8	1.0
10°-20°	673.0	3.0
20°-30°	1078.0	4.7
30°-40°	1538.7	6.8
40°-50°	2656.9	11.7
50°-60°	5086.8	22.3
60°-70°	7532.7	33.1
70°-80°	3730.9	16.4
80°-90°	246.5	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°	22766.2	100.0
0°-180°	22766.2	100.0

Coefficient of Utilization



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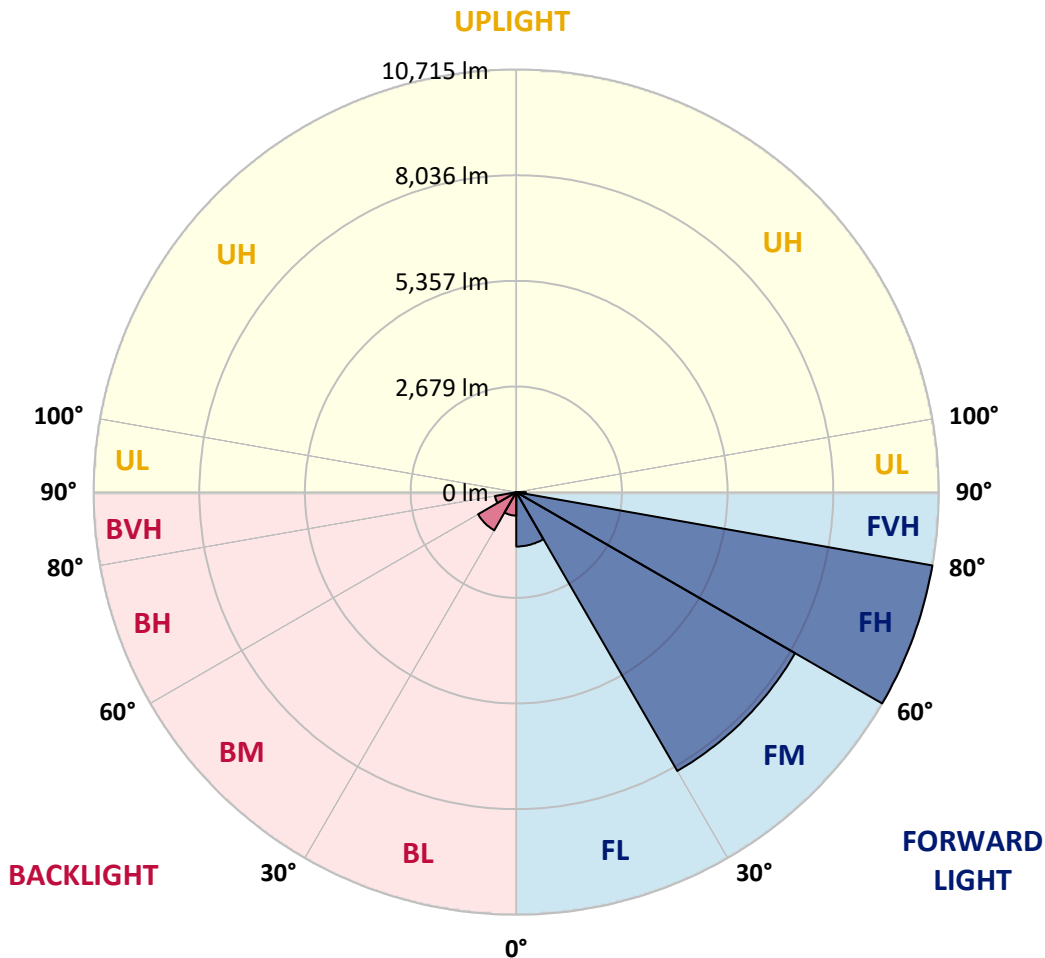
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1378.7	6.1			
FM (30°-60°)	8163.9	35.9			
FH (60°-80°)	10714.9	47.1			G4/12000
FVH (80°-90°)	243.4	1.1			G3/500
BL (0°-30°)	595.1	2.6	B2/1000		
BM (30°-60°)	1118.4	4.9	B2/2500		
BH (60°-80°)	548.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9
2.5°	2493.8	2477.4	2451.2	2441.4	2415.2	2402.1	2382.4	2372.6	2336.5	2300.5	2277.5
5°	2798.6	2759.3	2772.4	2733.0	2647.8	2579.0	2575.7	2500.4	2418.4	2352.9	2264.4
7.5°	3106.6	3073.8	3024.7	2969.0	2873.9	2772.4	2742.9	2670.8	2556.1	2441.4	2323.4
10°	3339.3	3316.3	3273.7	3195.1	3064.0	2949.3	2952.6	2831.3	2710.1	2579.0	2418.4
12.5°	3483.5	3493.3	3431.0	3352.4	3237.7	3093.5	3090.2	3008.3	2870.7	2733.0	2543.0
15°	3627.7	3663.7	3568.7	3476.9	3329.5	3224.6	3244.3	3145.9	3011.6	2854.3	2644.6
17.5°	3650.6	3660.4	3640.8	3506.4	3398.3	3309.8	3313.1	3247.5	3145.9	2975.5	2795.3
20°	3611.3	3604.7	3581.8	3483.5	3411.4	3358.9	3362.2	3345.8	3290.1	3152.5	2906.7
22.5°	3496.6	3496.6	3467.1	3401.5	3368.8	3417.9	3378.6	3440.9	3381.9	3300.0	3096.8
25°	3404.8	3440.9	3424.5	3381.9	3395.0	3460.5	3480.2	3539.2	3529.4	3427.8	3227.9
27.5°	3503.1	3460.5	3470.4	3421.2	3470.4	3568.7	3578.5	3621.1	3617.8	3535.9	3345.8
30°	3568.7	3608.0	3532.6	3424.5	3476.9	3644.0	3637.5	3693.2	3719.4	3621.1	3457.3
32.5°	3778.4	3745.6	3683.4	3539.2	3545.7	3640.8	3670.3	3742.4	3758.7	3699.8	3565.4
35°	4207.7	4158.5	3886.5	3670.3	3637.5	3683.4	3703.0	3843.9	3873.4	3807.9	3680.1
37.5°	4869.7	4758.2	4430.5	3952.1	3804.6	3794.8	3794.8	3981.6	4093.0	3942.3	3850.5
40°	5816.7	5659.4	5305.5	4473.1	4024.2	4063.5	4102.8	4204.4	4191.3	4093.0	4073.3
42.5°	7022.7	6901.4	6518.0	5348.1	4443.6	4247.0	4214.3	4351.9	4558.3	4519.0	4505.9
45°	8028.7	8035.3	7789.5	6547.5	5167.9	4669.8	4692.7	4797.6	5144.9	5115.4	5112.2
47.5°	8762.8	8671.0	8635.0	7704.3	6223.1	5472.6	5439.9	5512.0	5964.2	6151.0	6236.2
50°	9431.3	9369.0	9283.8	8828.3	7491.3	6478.7	6445.9	6452.5	7143.9	7406.1	7615.8
52.5°	10260.4	10339.0	10057.2	9778.6	9133.1	7786.2	7750.2	7622.4	8480.9	8841.4	9090.5
55°	11282.8	11135.3	10817.4	10961.6	10702.8	9198.6	9133.1	8982.3	10004.7	10155.5	10417.7
57.5°	11508.9	11397.5	11725.2	12236.4	12485.5	10856.8	10830.6	10558.6	11286.1	11148.4	11889.0
60°	12072.5	12102.0	12557.5	13573.4	14006.0	12770.6	12642.8	12164.3	12528.1	12554.3	13344.0
62.5°	12652.6	12583.8	13602.9	14579.5	15244.7	14582.7	14540.1	13589.8	14002.7	13668.5	14713.8
65°	12226.6	12331.4	13789.7	15424.9	16850.4	16355.6	16319.6	14962.9	15189.0	14772.8	15270.9
67.5°	10712.6	10499.6	12541.2	15038.3	17676.3	18213.7	18174.4	16460.5	15857.5	14766.3	14114.1
70°	7851.7	7668.2	9333.0	12734.5	16493.3	19164.0	19321.3	17502.6	15585.5	13389.9	10889.5
72.5°	3847.2	3850.5	5230.1	8635.0	13049.1	17466.5	17545.2	16047.6	13389.9	9870.4	6167.4
75°	1137.1	1150.2	1936.7	4233.9	8435.1	13265.4	13353.9	12180.7	9280.5	5099.0	2103.8
77.5°	416.2	416.2	642.3	1589.4	4207.7	8372.8	8366.2	7478.2	4699.2	1727.0	491.6
80°	216.3	226.1	334.3	648.9	1822.0	4361.7	4525.6	3660.4	1786.0	727.5	144.2
82.5°	88.5	98.3	183.5	334.3	875.0	1530.4	1674.6	1435.3	776.7	507.9	65.5
85°	26.2	29.5	88.5	186.8	344.1	383.4	426.0	481.7	488.3	393.2	29.5
87.5°	3.3	3.3	36.0	62.3	75.4	81.9	95.0	95.0	249.1	275.3	16.4
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°	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9	2234.9
2.5°	2251.3	2234.9	2208.7	2149.7	2136.6	2094.0	2090.7	2051.4	2064.5	2038.3	2028.5
5°	2234.9	2198.9	2126.8	2080.9	2035.0	2005.5	1985.9	1969.5	1966.2	1953.1	1946.6
7.5°	2264.4	2215.3	2103.8	2031.8	1953.1	1926.9	1884.3	1881.0	1858.1	1835.1	1835.1
10°	2362.7	2274.3	2153.0	2031.8	1930.2	1845.0	1746.7	1674.6	1648.3	1589.4	1595.9
12.5°	2441.4	2362.7	2185.8	2061.2	1907.2	1713.9	1497.6	1330.5	1251.8	1176.5	1205.9
15°	2552.8	2438.1	2248.0	2067.8	1818.7	1484.5	1130.6	943.8	871.7	855.3	852.0
17.5°	2674.0	2552.8	2326.7	2051.4	1638.5	1147.0	832.4	724.2	737.3	757.0	753.7
20°	2808.4	2660.9	2385.7	1995.7	1353.4	832.4	681.6	678.3	698.0	727.5	734.1
22.5°	2949.3	2821.5	2457.8	1828.6	1009.3	668.5	655.4	655.4	668.5	704.6	698.0
25°	3106.6	2936.2	2493.8	1569.7	724.2	616.1	622.6	635.7	642.3	671.8	675.1
27.5°	3227.9	3064.0	2503.6	1258.4	589.9	570.2	586.6	603.0	612.8	635.7	645.6
30°	3339.3	3224.6	2451.2	937.2	540.7	530.9	537.4	560.4	580.0	599.7	599.7
32.5°	3480.2	3316.3	2330.0	665.2	511.2	494.8	491.6	501.4	524.3	547.3	547.3
35°	3624.4	3470.4	2136.6	534.2	485.0	462.1	449.0	439.1	449.0	465.3	478.4
37.5°	3834.1	3703.0	1894.1	491.6	465.3	432.6	406.4	383.4	367.0	363.7	373.6
40°	4132.3	3965.2	1582.8	462.1	442.4	403.1	363.7	324.4	288.4	265.4	268.7
42.5°	4584.6	4351.9	1245.3	445.7	426.0	370.3	314.6	258.9	213.0	190.1	190.1
45°	5230.1	4863.1	914.3	429.3	406.4	331.0	258.9	193.3	147.5	134.4	137.6
47.5°	6203.4	5479.2	655.4	403.1	380.1	288.4	203.2	137.6	108.1	101.6	104.9
50°	7474.9	6210.0	511.2	373.6	347.4	242.5	150.7	101.6	85.2	81.9	85.2
52.5°	8808.6	6947.3	449.0	347.4	298.2	193.3	111.4	81.9	72.1	68.8	72.1
55°	9949.0	7422.5	390.0	308.0	239.2	144.2	88.5	72.1	62.3	52.4	52.4
57.5°	11102.5	7661.7	308.0	255.6	177.0	108.1	75.4	62.3	52.4	42.6	39.3
60°	12039.8	7832.1	219.6	190.1	124.5	85.2	65.5	55.7	42.6	32.8	29.5
62.5°	12655.9	7343.8	160.6	144.2	91.8	72.1	55.7	45.9	32.8	22.9	22.9
65°	12351.1	6668.7	124.5	101.6	68.8	55.7	45.9	32.8	22.9	13.1	9.8
67.5°	11082.9	5433.3	101.6	75.4	52.4	42.6	36.0	26.2	13.1	3.3	3.3
70°	8267.9	3981.6	81.9	55.7	42.6	32.8	26.2	16.4	6.6	3.3	0.0
72.5°	4522.3	2179.2	65.5	45.9	32.8	26.2	19.7	13.1	6.6	0.0	0.0
75°	1494.3	580.0	49.2	32.8	19.7	16.4	13.1	9.8	3.3	0.0	0.0
77.5°	360.5	150.7	39.3	29.5	16.4	9.8	6.6	3.3	3.3	0.0	0.0
80°	111.4	62.3	29.5	19.7	13.1	9.8	3.3	0.0	0.0	0.0	0.0
82.5°	45.9	29.5	13.1	13.1	9.8	3.3	0.0	0.0	0.0	0.0	0.0
85°	22.9	16.4	9.8	6.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	6.6	3.3	3.3	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)