

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: P483326

Luminaire Tested: **IFLD-M-SA4C-760-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483326
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-760-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT
distribution lens with House Side Shield
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

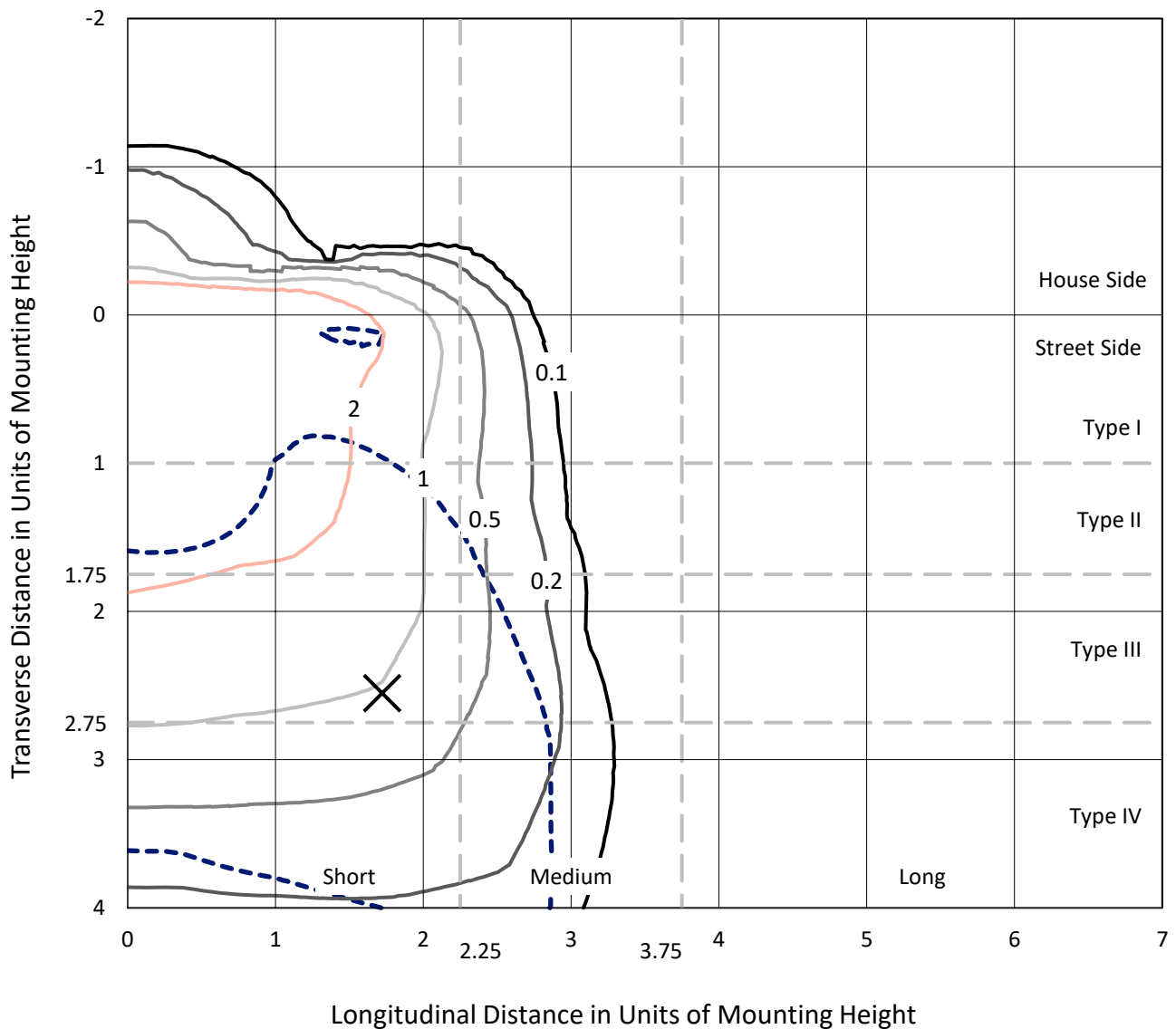
Lumens per Lamp: N/A
Luminaire Lumens: 21029.4 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

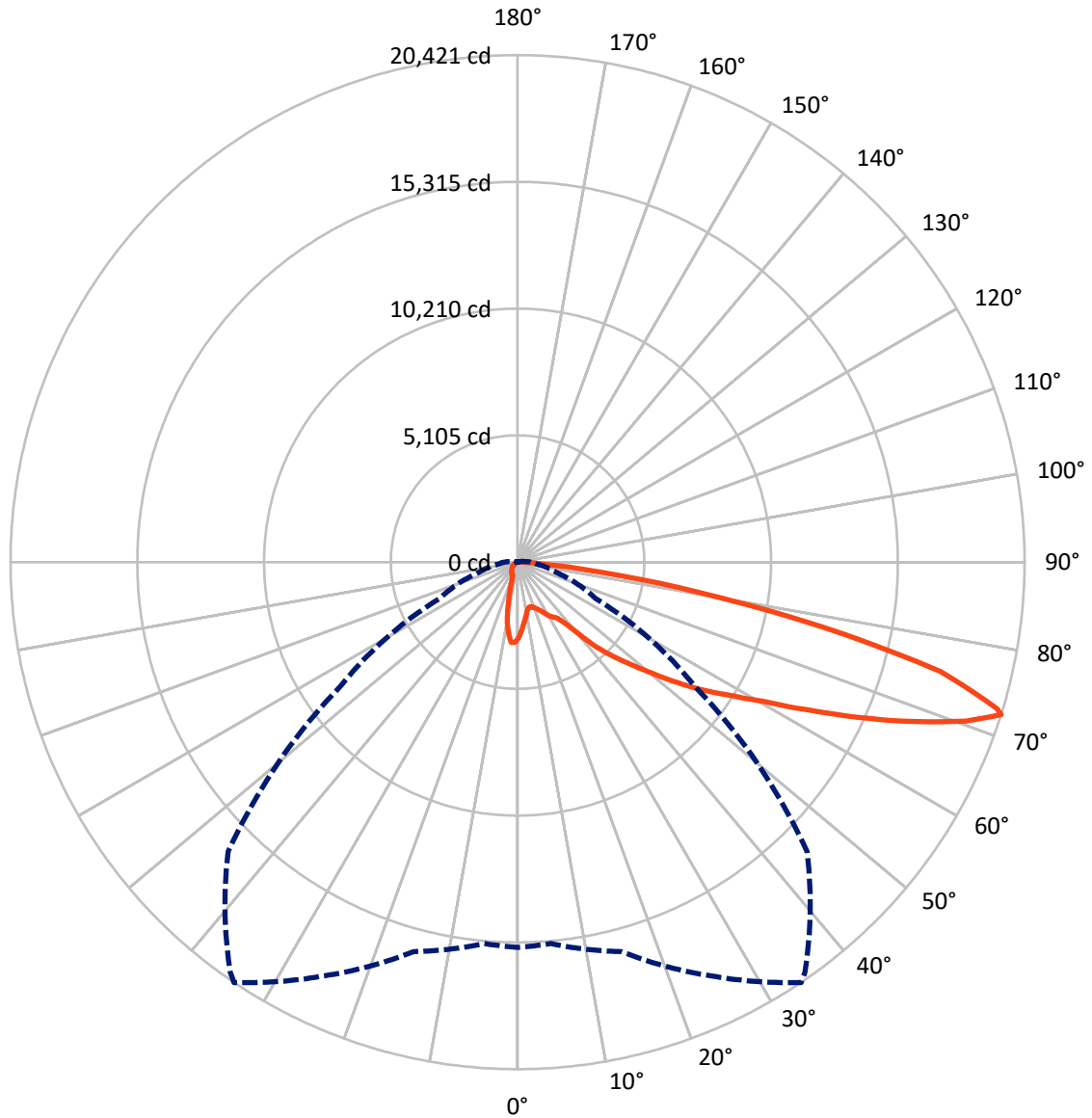
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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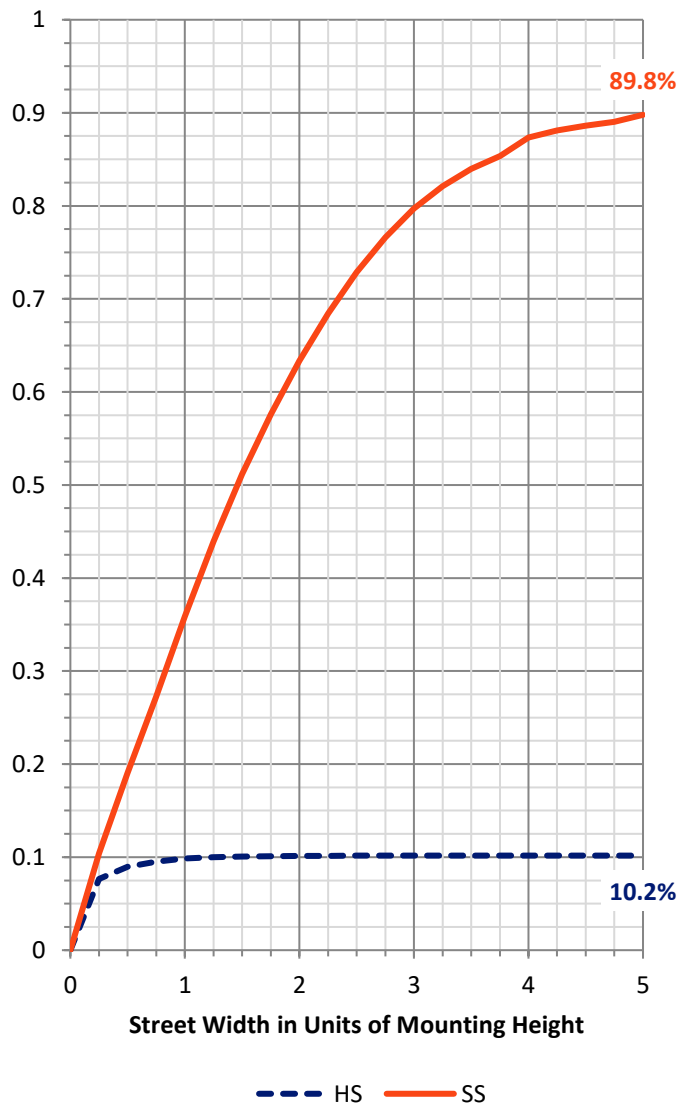
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2152.9	0.0	2152.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	18876.5	0.0	18876.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	21029.4	0.0	21029.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.1	1.3
10°-20°	604.7	2.9
20°-30°	912.7	4.3
30°-40°	1481.1	7.0
40°-50°	2785.1	13.2
50°-60°	4553.7	21.7
60°-70°	6053.5	28.8
70°-80°	4054.0	19.3
80°-90°	317.7	1.5
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°	21029.4	100.0
0°-180°	21029.4	100.0

Coefficient of Utilization



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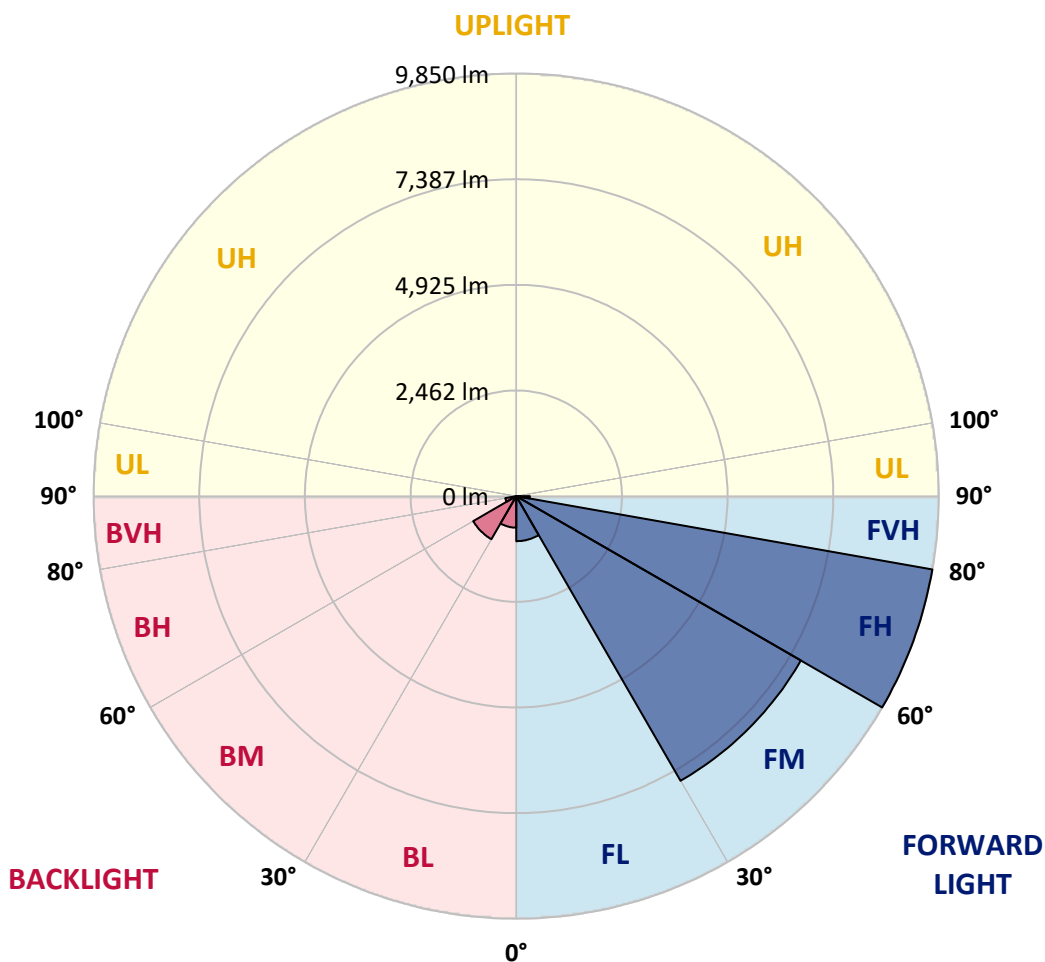
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.8	5.0			
FM (30°-60°)	7661.0	36.4			
FH (60°-80°)	9850.0	46.8			G4/12000
FVH (80°-90°)	315.7	1.5			G3/500
BL (0°-30°)	734.6	3.5	B2/1000		
BM (30°-60°)	1158.9	5.5	B2/2500		
BH (60°-80°)	257.4	1.2	B1/500		G1/500
BVH (80°-90°)	2.0	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°	34°	35°	45°	55°	65°	75°	85°
0°	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6
2.5°	2720.9	2714.8	2733.1	2763.5	2793.9	2781.7	2839.5	2900.3	2942.9	3000.6	3070.5
5°	2377.4	2392.6	2410.8	2471.6	2511.2	2520.3	2626.7	2705.7	2836.4	2970.2	3094.9
7.5°	2064.3	2082.5	2119.0	2185.9	2267.9	2289.2	2395.6	2553.7	2724.0	2900.3	3104.0
10°	1836.2	1854.5	1894.0	1936.6	2046.0	2046.0	2191.9	2410.8	2632.8	2839.5	3107.0
12.5°	1787.6	1796.7	1793.7	1827.1	1897.0	1912.2	2055.1	2295.3	2553.7	2818.2	3155.7
15°	1845.4	1851.4	1821.0	1802.8	1863.6	1878.8	2012.6	2225.4	2502.0	2830.4	3234.7
17.5°	1960.9	1939.6	1878.8	1851.4	1903.1	1912.2	2036.9	2222.3	2496.0	2863.8	3325.9
20°	2027.8	2052.1	1945.7	1894.0	1967.0	1979.1	2112.9	2271.0	2526.4	2921.6	3453.6
22.5°	2146.3	2158.5	2015.6	1982.2	2052.1	2052.1	2204.1	2368.3	2599.3	3015.8	3605.6
25°	2313.5	2298.3	2131.1	2097.7	2164.6	2191.9	2343.9	2523.3	2711.8	3104.0	3745.4
27.5°	2444.3	2453.4	2316.6	2228.4	2340.9	2359.1	2523.3	2690.5	2796.9	3176.9	3915.7
30°	2638.8	2620.6	2474.7	2374.3	2514.2	2517.2	2675.3	2848.6	2961.1	3307.7	4171.1
32.5°	2869.9	2833.4	2666.2	2523.3	2635.8	2663.2	2824.3	3076.6	3216.5	3553.9	4566.3
35°	3359.3	3271.2	2997.6	2775.6	2784.8	2796.9	3046.2	3408.0	3569.1	3867.1	5095.3
37.5°	4073.8	4037.3	3727.2	3304.6	3143.5	3107.0	3386.7	3845.8	4046.4	4280.5	5782.3
40°	4782.1	4730.4	4441.6	4122.4	3830.6	3757.6	3897.5	4426.4	4608.8	4855.1	6487.6
42.5°	5569.5	5478.3	5137.8	4879.4	4697.0	4618.0	4563.2	5156.1	5362.8	5530.0	7177.8
45°	6366.0	6217.1	5724.6	5527.0	5429.7	5387.1	5381.0	6074.2	6198.8	6232.3	7943.9
47.5°	7065.3	6904.1	6457.2	6235.3	6162.4	6150.2	6490.7	7132.2	7034.9	6946.7	8798.1
50°	7603.4	7500.0	7177.8	7098.7	7044.0	7022.7	7819.2	8220.5	7770.6	7615.5	9549.1
52.5°	8436.4	8205.3	7840.5	7867.9	8059.4	8062.4	9166.0	9254.2	8381.7	8074.6	10257.4
55°	9102.2	8950.2	8652.2	8612.7	9117.4	9172.1	10372.9	10038.5	8722.1	8512.4	10518.9
57.5°	9886.5	9816.6	9600.7	9606.8	10135.8	10251.3	11446.1	10701.3	9004.9	8795.1	10558.4
60°	11020.5	10819.8	10707.4	10759.0	11382.3	11494.7	12485.8	11178.6	9141.7	8980.6	10461.1
62.5°	12273.0	12038.9	11917.3	12181.8	13090.8	13109.1	13276.3	11601.2	9056.6	9029.2	9834.8
65°	13780.9	13549.9	13452.6	13984.6	15063.9	14997.0	14385.9	11780.5	8786.0	8539.7	8190.1
67.5°	15282.8	15142.9	14942.3	15790.5	17134.2	17134.2	15538.1	11713.6	8077.6	6855.5	5356.7
70°	15994.1	16091.4	16410.6	17742.2	19168.0	19022.1	16675.1	10944.5	6013.4	3681.6	2106.8
72°	15519.9	15419.6	16243.4	18380.7	20420.6	20180.4	16483.6	8700.9	3474.9	1614.3	732.7
72.5°	14705.1	14799.4	15933.3	18292.5	20186.5	20384.1	16015.4	8026.0	2857.7	1286.0	553.3
75°	9017.0	9178.2	11893.0	15532.0	17590.2	17368.3	12388.5	3824.5	1097.5	547.2	197.6
77.5°	3292.5	3426.2	5770.2	9774.0	12510.2	12370.3	7168.6	1358.9	595.9	407.4	100.3
80°	857.3	927.2	1960.9	4508.5	7357.1	7366.2	3000.6	544.2	404.3	334.4	60.8
82.5°	170.2	188.5	601.9	1754.2	3438.4	3392.8	948.5	291.9	304.0	273.6	42.6
85°	21.3	27.4	127.7	595.9	1112.7	997.2	234.1	145.9	225.0	212.8	27.4
87.5°	3.0	3.0	30.4	136.8	234.1	228.0	48.6	45.6	100.3	130.7	15.2
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°	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6	3076.6
2.5°	3110.1	3122.2	3164.8	3201.3	3243.8	3256.0	3237.7	3268.1	3225.6	3249.9	3256.0
5°	3116.1	3186.1	3265.1	3316.8	3304.6	3274.2	3249.9	3167.8	3110.1	3088.8	3134.4
7.5°	3158.7	3237.7	3322.9	3322.9	3256.0	3097.9	2945.9	2800.0	2678.4	2617.6	2669.2
10°	3213.4	3295.5	3383.7	3268.1	3018.9	2730.0	2514.2	2240.6	2055.1	1957.8	1967.0
12.5°	3286.4	3401.9	3432.3	3164.8	2751.3	2322.7	1930.5	1550.5	1374.1	1234.3	1237.3
15°	3380.6	3493.1	3401.9	2939.8	2410.8	1778.5	1307.3	945.5	805.6	732.7	732.7
17.5°	3505.3	3590.4	3392.8	2733.1	1951.8	1216.1	802.6	638.4	608.0	595.9	595.9
20°	3651.2	3715.0	3304.6	2410.8	1450.1	781.3	589.8	571.5	574.6	568.5	568.5
22.5°	3815.4	3836.6	3204.3	2036.9	982.0	577.6	550.3	553.3	556.3	550.3	553.3
25°	3988.7	3930.9	3058.4	1599.1	653.6	525.9	532.0	538.1	541.1	544.2	544.2
27.5°	4183.2	4067.7	2854.7	1170.5	510.7	495.5	513.8	532.0	535.1	535.1	532.0
30°	4469.0	4277.5	2657.1	793.5	449.9	462.1	492.5	513.8	529.0	529.0	525.9
32.5°	4830.8	4496.4	2380.4	541.1	416.5	422.6	446.9	489.5	522.9	525.9	516.8
35°	5332.4	4760.9	2091.6	431.7	392.2	395.2	410.4	443.9	501.6	519.9	516.8
37.5°	5861.4	5061.8	1732.9	389.1	373.9	370.9	380.0	407.4	459.1	504.7	507.7
40°	6423.8	5378.0	1355.9	367.9	358.7	352.7	355.7	367.9	407.4	465.1	477.3
42.5°	6952.8	5663.8	1018.4	346.6	343.5	337.5	337.5	340.5	361.8	401.3	407.4
45°	7524.3	5897.9	775.2	331.4	322.3	325.3	313.1	307.1	322.3	325.3	322.3
47.5°	8059.4	6132.0	620.2	313.1	304.0	304.0	288.8	276.7	276.7	249.3	246.3
50°	8561.0	6259.6	495.5	288.8	285.8	282.7	261.5	240.2	221.9	188.5	182.4
52.5°	8977.5	6253.6	383.1	258.4	267.5	258.4	225.0	194.6	167.2	136.8	130.7
55°	9102.2	5961.7	288.8	212.8	228.0	215.8	179.4	152.0	121.6	97.3	94.2
57.5°	8995.8	5517.8	218.9	164.2	176.3	164.2	136.8	112.5	85.1	66.9	60.8
60°	8640.1	4998.0	170.2	127.7	133.8	124.6	103.4	85.1	60.8	42.6	36.5
62.5°	7965.2	4347.4	130.7	100.3	97.3	97.3	79.0	63.8	42.6	24.3	21.3
65°	6536.3	3389.8	100.3	69.9	69.9	69.9	60.8	45.6	27.4	12.2	6.1
67.5°	4104.2	1973.0	82.1	54.7	51.7	51.7	42.6	30.4	15.2	3.0	0.0
70°	1544.4	723.6	63.8	42.6	39.5	39.5	30.4	18.2	9.1	0.0	0.0
72°	532.0	276.7	51.7	30.4	30.4	27.4	21.3	15.2	6.1	0.0	0.0
72.5°	437.8	221.9	48.6	30.4	27.4	27.4	21.3	15.2	6.1	0.0	0.0
75°	158.1	91.2	33.4	21.3	18.2	18.2	15.2	9.1	3.0	0.0	0.0
77.5°	79.0	57.8	27.4	18.2	15.2	9.1	9.1	6.1	3.0	0.0	0.0
80°	48.6	36.5	15.2	12.2	9.1	6.1	3.0	3.0	0.0	0.0	0.0
82.5°	33.4	21.3	9.1	9.1	6.1	3.0	0.0	0.0	0.0	0.0	0.0
85°	21.3	9.1	6.1	6.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	6.1	3.0	0.0	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)