

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: P483555

Luminaire Tested: **IFLD-S-SA6C-730-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483555
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27917.6 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

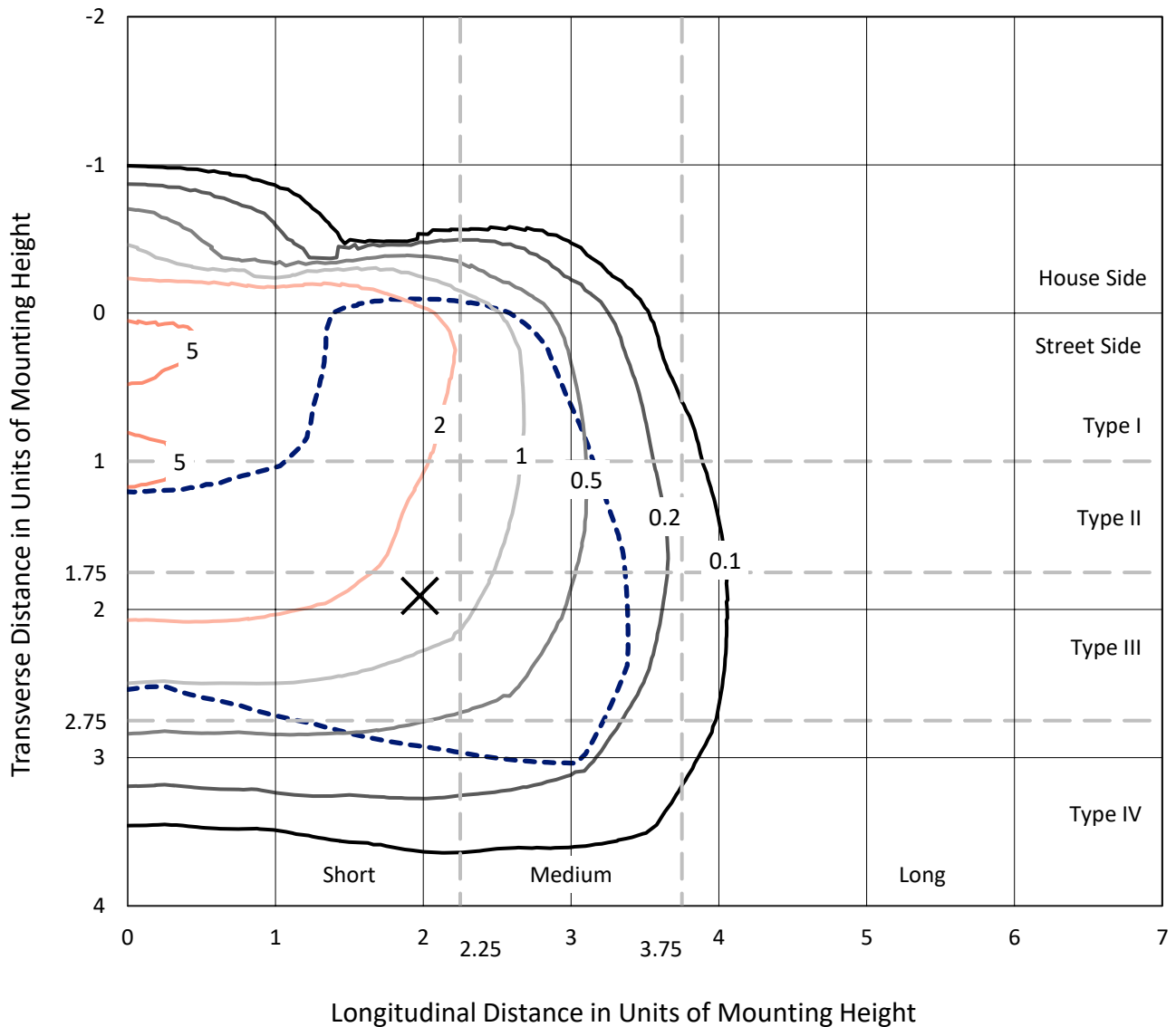
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

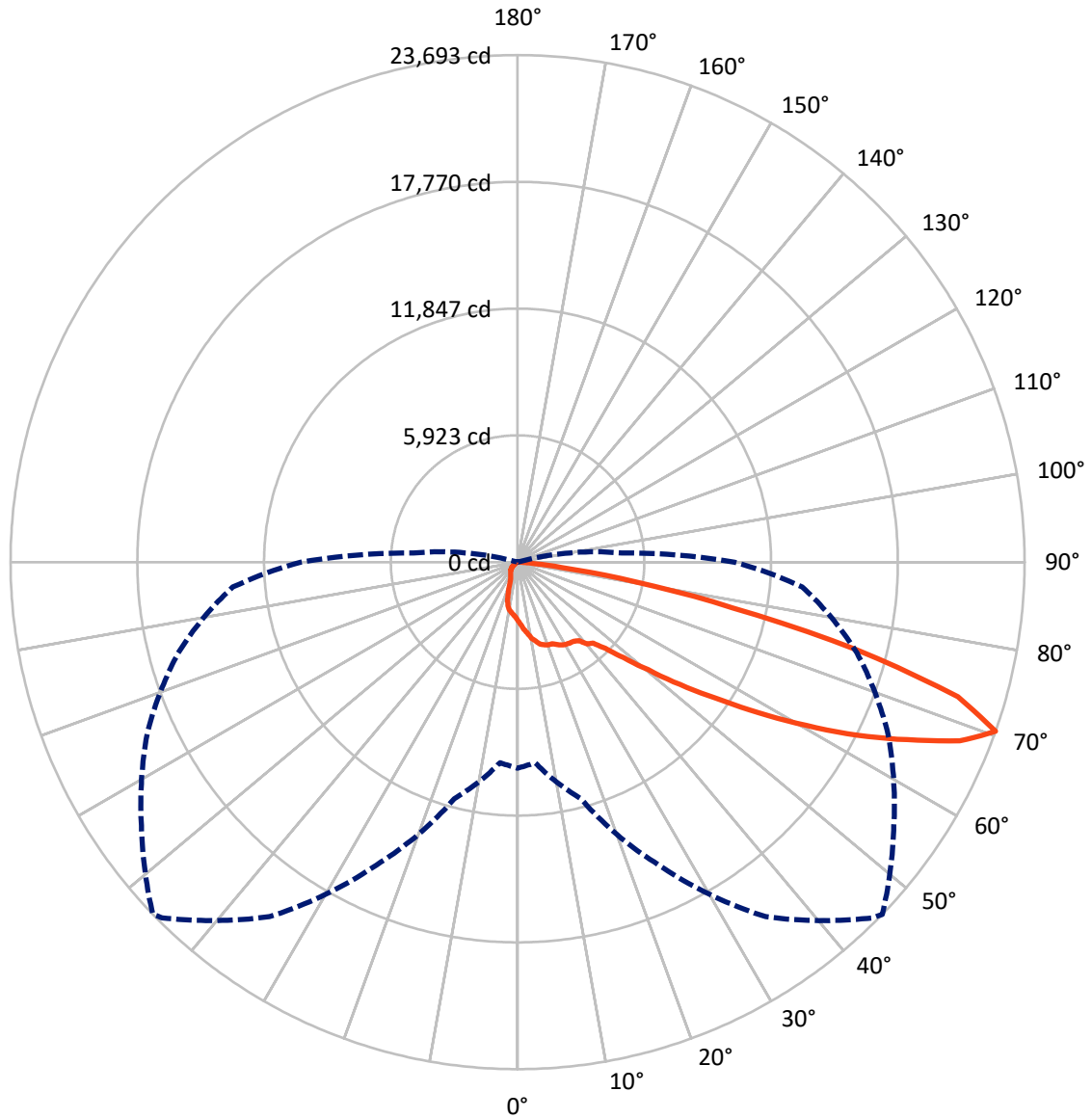
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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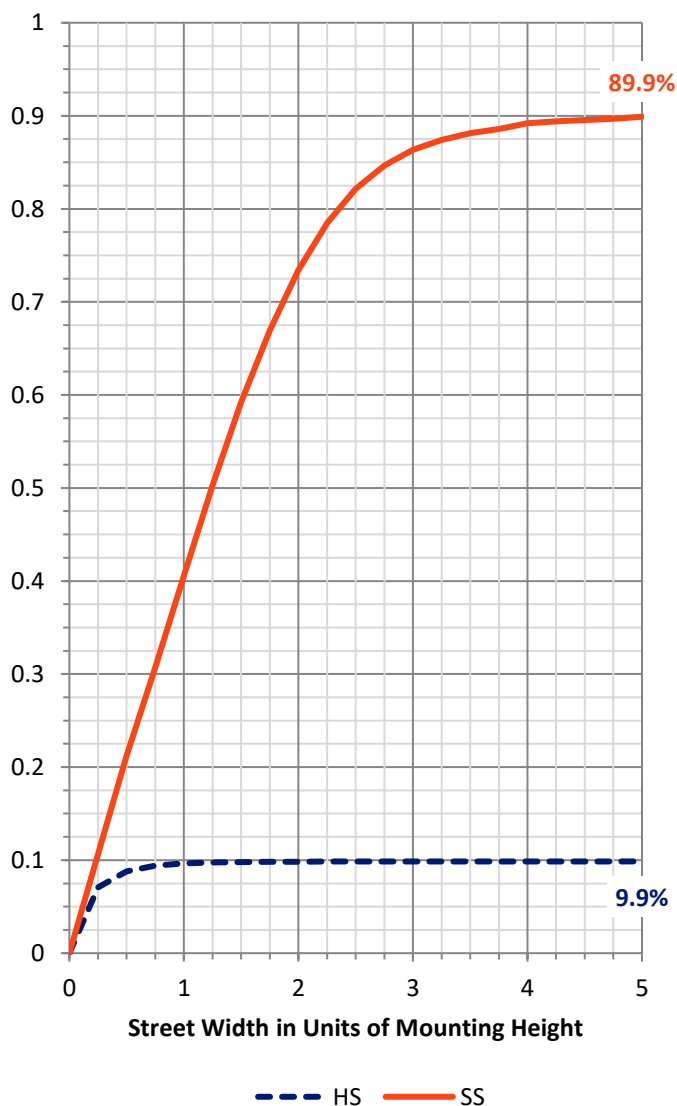
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2777.9	0.0	2777.9
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	25139.7	0.0	25139.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	27917.6	0.0	27917.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.3	1.0
10°-20°	825.3	3.0
20°-30°	1321.9	4.7
30°-40°	1886.8	6.8
40°-50°	3258.0	11.7
50°-60°	6237.8	22.3
60°-70°	9237.2	33.1
70°-80°	4575.1	16.4
80°-90°	302.3	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°	27917.6	100.0
0°-180°	27917.6	100.0

Coefficient of Utilization

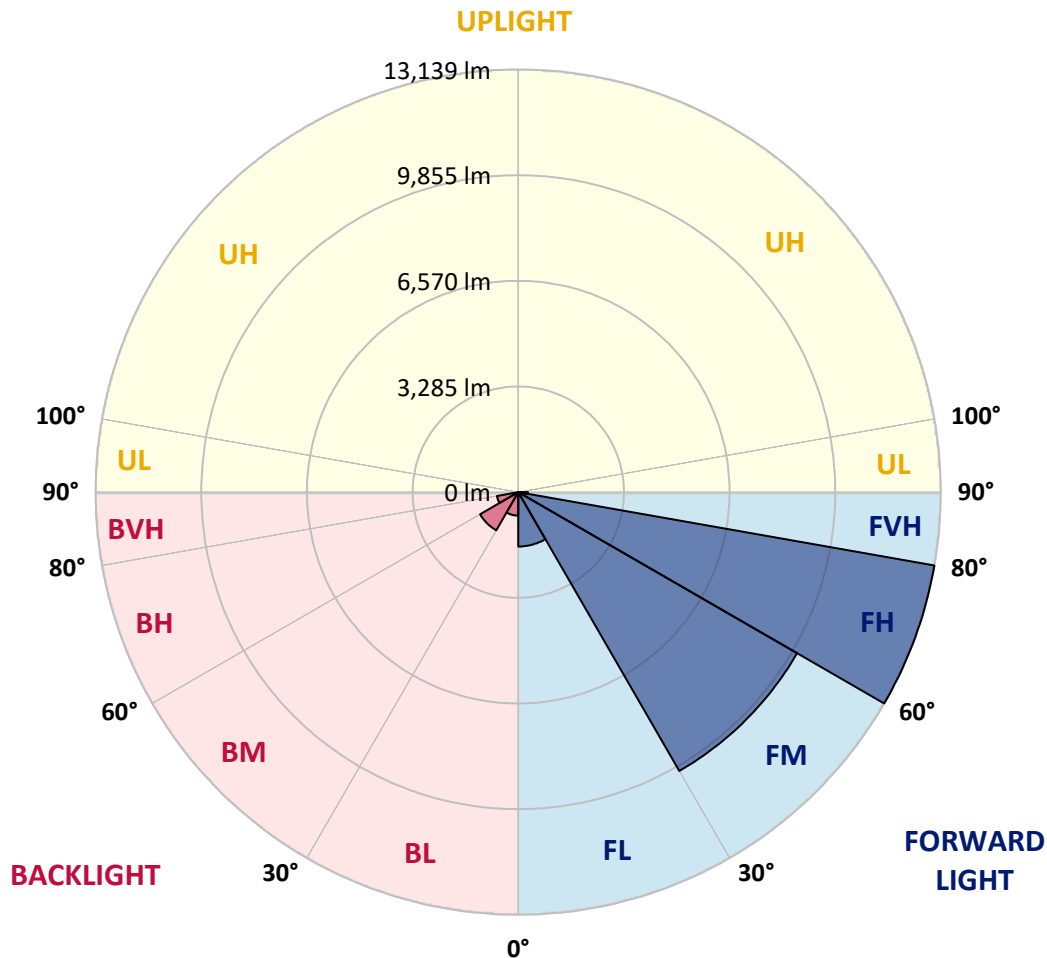


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1690.6	6.1			
FM (30°-60°)	10011.2	35.9			
FH (60°-80°)	13139.4	47.1			G5
FVH (80°-90°)	298.5	1.1			G3/500
BL (0°-30°)	729.8	2.6	B2/1000		
BM (30°-60°)	1371.4	4.9	B2/2500		
BH (60°-80°)	672.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6
2.5°	3058.1	3038.0	3005.9	2993.8	2961.7	2945.6	2921.5	2909.4	2865.2	2821.0	2792.9
5°	3431.8	3383.6	3399.7	3351.5	3247.0	3162.6	3158.6	3066.1	2965.7	2885.3	2776.8
7.5°	3809.6	3769.4	3709.1	3640.8	3524.2	3399.7	3363.5	3275.1	3134.4	2993.8	2849.1
10°	4094.9	4066.7	4014.5	3918.1	3757.3	3616.7	3620.7	3472.0	3323.3	3162.6	2965.7
12.5°	4271.7	4283.7	4207.4	4111.0	3970.3	3793.5	3789.5	3689.0	3520.2	3351.5	3118.4
15°	4448.5	4492.7	4376.2	4263.7	4082.8	3954.2	3978.3	3857.8	3693.0	3500.1	3242.9
17.5°	4476.6	4488.7	4464.6	4299.8	4167.2	4058.7	4062.7	3982.4	3857.8	3648.8	3427.8
20°	4428.4	4420.4	4392.2	4271.7	4183.3	4119.0	4123.0	4102.9	4034.6	3865.8	3564.4
22.5°	4287.8	4287.8	4251.6	4171.2	4131.0	4191.3	4143.1	4219.5	4147.1	4046.7	3797.5
25°	4175.2	4219.5	4199.4	4147.1	4163.2	4243.6	4267.7	4340.0	4328.0	4203.4	3958.2
27.5°	4295.8	4243.6	4255.6	4195.3	4255.6	4376.2	4388.2	4440.5	4436.5	4336.0	4102.9
30°	4376.2	4424.4	4332.0	4199.4	4263.7	4468.6	4460.6	4528.9	4561.0	4440.5	4239.5
32.5°	4633.4	4593.2	4516.8	4340.0	4348.0	4464.6	4500.7	4589.2	4609.2	4536.9	4372.2
35°	5159.8	5099.5	4766.0	4500.7	4460.6	4516.8	4540.9	4713.7	4749.9	4669.5	4512.8
37.5°	5971.5	5834.9	5433.0	4846.3	4665.5	4653.5	4653.5	4882.5	5019.1	4834.3	4721.8
40°	7132.9	6940.0	6506.0	5485.3	4934.7	4983.0	5031.2	5155.8	5139.7	5019.1	4995.0
42.5°	8611.7	8463.0	7992.8	6558.2	5449.1	5208.0	5167.8	5336.6	5589.8	5541.5	5525.5
45°	9845.4	9853.4	9552.0	8029.0	6337.2	5726.4	5754.5	5883.1	6309.1	6272.9	6268.9
47.5°	10745.5	10633.0	10588.8	9447.6	7631.2	6710.9	6670.8	6759.2	7313.7	7542.8	7647.3
50°	11565.3	11489.0	11384.5	10825.9	9186.3	7944.6	7904.4	7912.5	8760.4	9081.9	9339.1
52.5°	12582.0	12678.4	12332.9	11991.3	11199.6	9548.0	9503.8	9347.1	10399.9	10842.0	11147.4
55°	13835.8	13654.9	13265.2	13442.0	13124.5	11280.0	11199.6	11014.8	12268.6	12453.4	12774.9
57.5°	14113.1	13976.4	14378.3	15005.2	15310.6	13313.4	13281.2	12947.7	13839.8	13671.0	14579.2
60°	14804.2	14840.4	15399.0	16644.7	17175.2	15660.2	15503.5	14916.8	15362.8	15395.0	16363.4
62.5°	15515.5	15431.1	16680.9	17878.4	18694.2	17882.4	17830.2	16664.8	17171.2	16761.3	18043.2
65°	14993.1	15121.7	16910.0	18915.2	20663.3	20056.5	20012.3	18348.6	18625.9	18115.5	18726.3
67.5°	13136.6	12875.4	15378.9	18441.0	21675.9	22335.0	22286.7	20185.1	19445.6	18107.5	17307.8
70°	9628.4	9403.3	11444.8	15616.0	20225.2	23500.3	23693.2	21462.9	19112.1	16419.7	13353.6
72.5°	4717.7	4721.8	6413.6	10588.8	16001.8	21418.7	21515.2	19678.7	16419.7	12103.8	7562.9
75°	1394.4	1410.5	2374.9	5191.9	10343.7	16267.0	16375.5	14936.9	11380.5	6252.8	2579.9
77.5°	510.4	510.4	787.6	1949.0	5159.8	10267.3	10259.3	9170.3	5762.6	2117.8	602.8
80°	265.2	277.3	409.9	795.7	2234.3	5348.7	5549.6	4488.7	2190.1	892.1	176.8
82.5°	108.5	120.6	225.0	409.9	1072.9	1876.7	2053.5	1760.1	952.4	622.9	80.4
85°	32.1	36.2	108.5	229.1	421.9	470.2	522.4	590.7	598.8	482.2	36.2
87.5°	4.0	4.0	44.2	76.4	92.4	100.5	116.5	116.5	305.4	337.6	20.1
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°	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6	2740.6
2.5°	2760.7	2740.6	2708.5	2636.2	2620.1	2567.8	2563.8	2515.6	2531.7	2499.5	2487.5
5°	2740.6	2696.4	2608.0	2551.8	2495.5	2459.3	2435.2	2415.1	2411.1	2395.0	2387.0
7.5°	2776.8	2716.5	2579.9	2491.5	2395.0	2362.9	2310.7	2306.6	2278.5	2250.4	2250.4
10°	2897.4	2788.9	2640.2	2491.5	2366.9	2262.4	2141.9	2053.5	2021.3	1949.0	1957.0
12.5°	2993.8	2897.4	2680.4	2527.7	2338.8	2101.7	1836.5	1631.5	1535.1	1442.7	1478.8
15°	3130.4	2989.8	2756.7	2535.7	2230.3	1820.4	1386.4	1157.3	1068.9	1048.8	1044.8
17.5°	3279.1	3130.4	2853.2	2515.6	2009.3	1406.5	1020.7	888.1	904.2	928.3	924.3
20°	3443.9	3263.0	2925.5	2447.3	1659.7	1020.7	835.9	831.8	855.9	892.1	900.1
22.5°	3616.7	3460.0	3013.9	2242.3	1237.7	819.8	803.7	803.7	819.8	864.0	855.9
25°	3809.6	3600.6	3058.1	1924.9	888.1	755.5	763.5	779.6	787.6	823.8	827.8
27.5°	3958.2	3757.3	3070.2	1543.1	723.3	699.2	719.3	739.4	751.5	779.6	791.6
30°	4094.9	3954.2	3005.9	1149.3	663.1	651.0	659.0	687.2	711.3	735.4	735.4
32.5°	4267.7	4066.7	2857.2	815.8	626.9	606.8	602.8	614.8	643.0	671.1	671.1
35°	4444.5	4255.6	2620.1	655.0	594.7	566.6	550.5	538.5	550.5	570.6	586.7
37.5°	4701.7	4540.9	2322.7	602.8	570.6	530.4	498.3	470.2	450.1	446.1	458.1
40°	5067.4	4862.4	1940.9	566.6	542.5	494.3	446.1	397.8	353.6	325.5	329.5
42.5°	5621.9	5336.6	1527.0	546.5	522.4	454.1	385.8	317.5	261.2	233.1	233.1
45°	6413.6	5963.5	1121.2	526.4	498.3	405.9	317.5	237.1	180.8	164.8	168.8
47.5°	7607.1	6719.0	803.7	494.3	466.1	353.6	249.1	168.8	132.6	124.6	128.6
50°	9166.3	7615.1	626.9	458.1	426.0	297.4	184.9	124.6	104.5	100.5	104.5
52.5°	10801.8	8519.3	550.5	426.0	365.7	237.1	136.6	100.5	88.4	84.4	88.4
55°	12200.2	9102.0	478.2	377.7	293.4	176.8	108.5	88.4	76.4	64.3	64.3
57.5°	13614.8	9395.3	377.7	313.4	217.0	132.6	92.4	76.4	64.3	52.2	48.2
60°	14764.1	9604.3	269.2	233.1	152.7	104.5	80.4	68.3	52.2	40.2	36.2
62.5°	15519.5	9005.5	196.9	176.8	112.5	88.4	68.3	56.3	40.2	28.1	28.1
65°	15145.8	8177.7	152.7	124.6	84.4	68.3	56.3	40.2	28.1	16.1	12.1
67.5°	13590.7	6662.7	124.6	92.4	64.3	52.2	44.2	32.1	16.1	4.0	4.0
70°	10138.7	4882.5	100.5	68.3	52.2	40.2	32.1	20.1	8.0	4.0	0.0
72.5°	5545.6	2672.3	80.4	56.3	40.2	32.1	24.1	16.1	8.0	0.0	0.0
75°	1832.4	711.3	60.3	40.2	24.1	20.1	16.1	12.1	4.0	0.0	0.0
77.5°	442.0	184.9	48.2	36.2	20.1	12.1	8.0	4.0	4.0	0.0	0.0
80°	136.6	76.4	36.2	24.1	16.1	12.1	4.0	0.0	0.0	0.0	0.0
82.5°	56.3	36.2	16.1	16.1	12.1	4.0	0.0	0.0	0.0	0.0	0.0
85°	28.1	20.1	12.1	8.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.1	8.0	4.0	4.0	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)