

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: P483569

Luminaire Tested: **IFLD-L-SA8B-730-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483569  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-730-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W  
distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

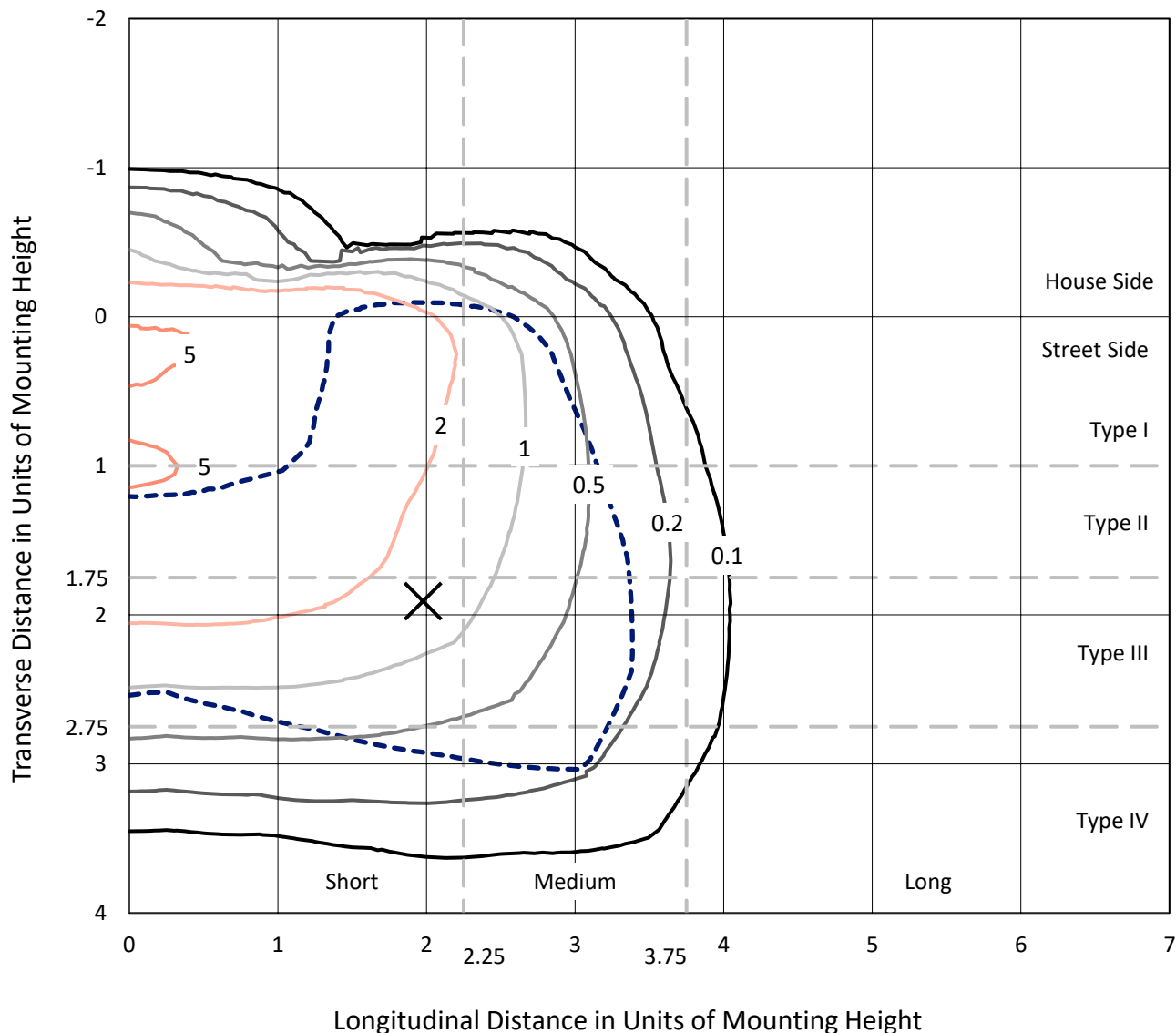
Lumens per Lamp: N/A  
Luminaire Lumens: 27344.3 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

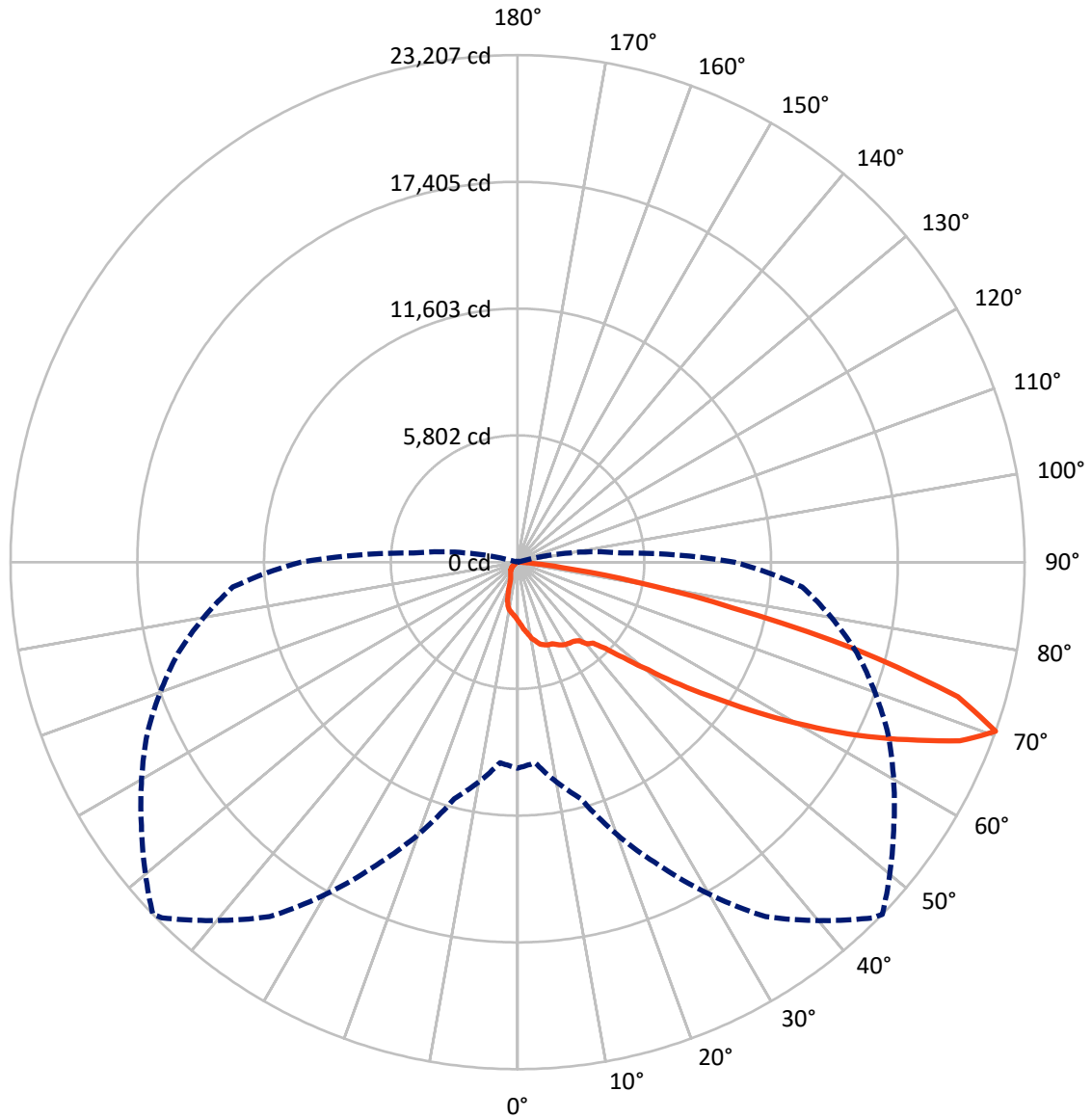
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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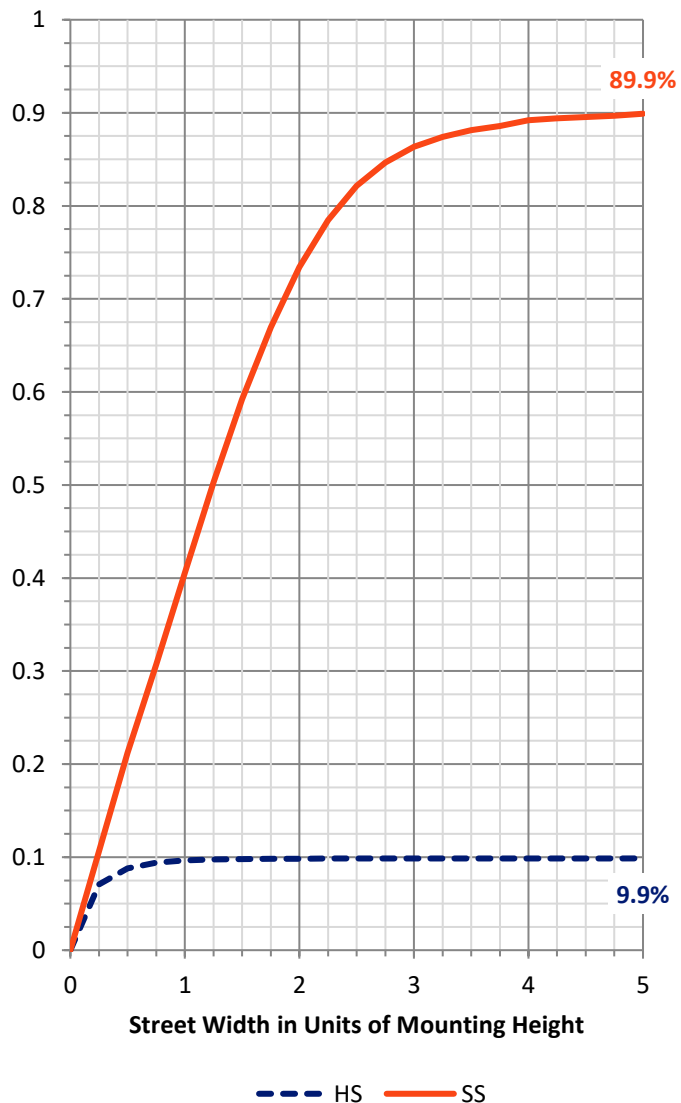
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2720.8	0.0	2720.8
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	24623.5	0.0	24623.5
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	27344.3	0.0	27344.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.7	1.0
10°-20°	808.3	3.0
20°-30°	1294.7	4.7
30°-40°	1848.1	6.8
40°-50°	3191.1	11.7
50°-60°	6109.7	22.3
60°-70°	9047.5	33.1
70°-80°	4481.1	16.4
80°-90°	296.1	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°	27344.3	100.0
0°-180°	27344.3	100.0

**Coefficient of Utilization**

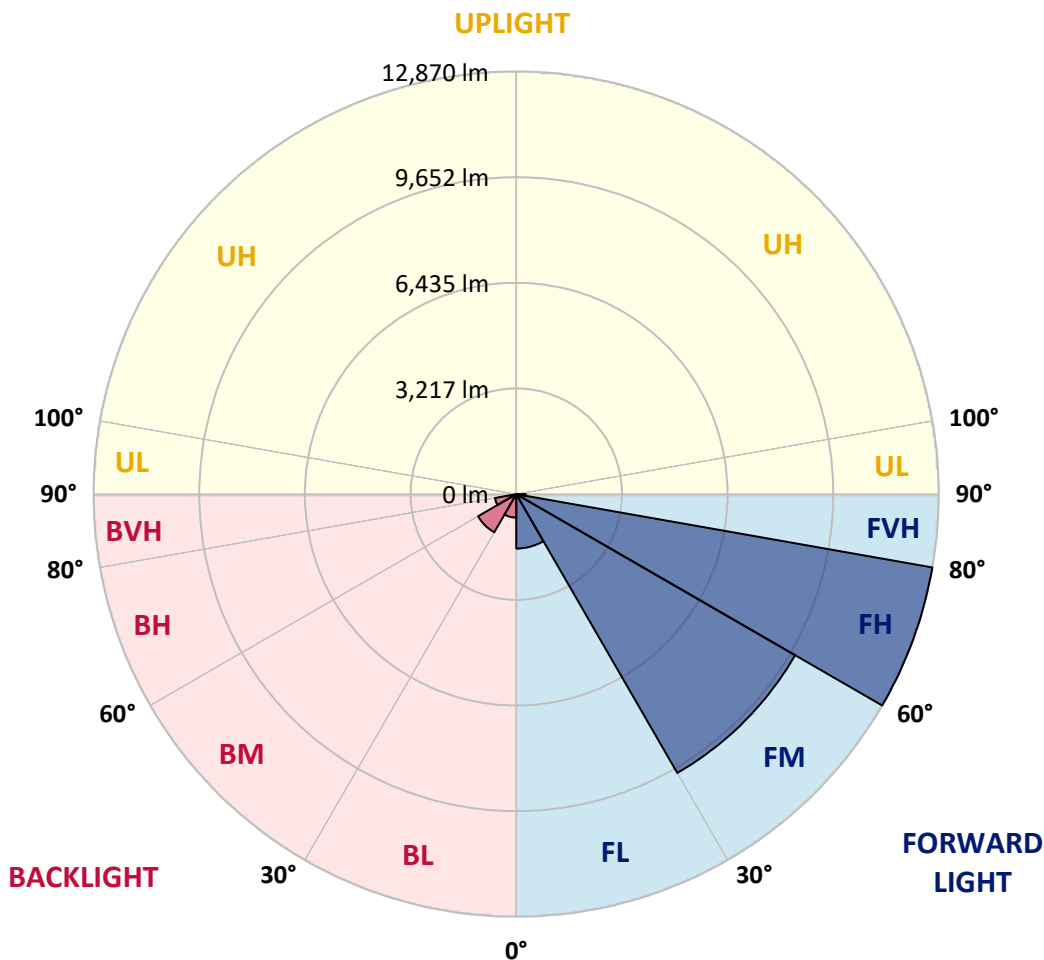


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1655.9	6.1			
FM (30°-60°)	9805.6	35.9			
FH (60°-80°)	12869.7	47.1			G5
FVH (80°-90°)	292.3	1.1			G3/500
BL (0°-30°)	714.8	2.6	B2/1000		
BM (30°-60°)	1343.3	4.9	B2/2500		
BH (60°-80°)	659.0	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°	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4
2.5°	2995.3	2975.6	2944.1	2932.3	2900.8	2885.1	2861.5	2849.7	2806.4	2763.1	2735.5
5°	3361.4	3314.1	3329.9	3282.6	3180.3	3097.6	3093.7	3003.2	2904.8	2826.1	2719.8
7.5°	3731.3	3692.0	3632.9	3566.0	3451.9	3329.9	3294.4	3207.9	3070.1	2932.3	2790.6
10°	4010.8	3983.2	3932.1	3837.6	3680.2	3542.4	3546.4	3400.7	3255.1	3097.6	2904.8
12.5°	4184.0	4195.8	4121.0	4026.5	3888.8	3715.6	3711.7	3613.3	3448.0	3282.6	3054.3
15°	4357.2	4400.5	4286.3	4176.1	3999.0	3873.0	3896.7	3778.6	3617.2	3428.3	3176.4
17.5°	4384.7	4396.5	4372.9	4211.5	4081.7	3975.4	3979.3	3900.6	3778.6	3573.9	3357.4
20°	4337.5	4329.6	4302.1	4184.0	4097.4	4034.4	4038.4	4018.7	3951.8	3786.4	3491.2
22.5°	4199.7	4199.7	4164.3	4085.6	4046.2	4105.3	4058.0	4132.8	4062.0	3963.6	3719.5
25°	4089.5	4132.8	4113.1	4062.0	4077.7	4156.4	4180.1	4250.9	4239.1	4117.1	3877.0
27.5°	4207.6	4156.4	4168.2	4109.2	4168.2	4286.3	4298.1	4349.3	4345.4	4247.0	4018.7
30°	4286.3	4333.6	4243.0	4113.1	4176.1	4376.9	4369.0	4435.9	4467.4	4349.3	4152.5
32.5°	4538.2	4498.9	4424.1	4250.9	4258.8	4372.9	4408.3	4494.9	4514.6	4443.8	4282.4
35°	5053.8	4994.8	4668.1	4408.3	4369.0	4424.1	4447.7	4616.9	4652.4	4573.7	4420.1
37.5°	5848.9	5715.1	5321.5	4746.8	4569.7	4557.9	4557.9	4782.3	4916.1	4735.0	4624.8
40°	6986.4	6797.5	6372.4	5372.7	4833.4	4880.7	4927.9	5049.9	5034.2	4916.1	4892.5
42.5°	8434.9	8289.3	7828.7	6423.6	5337.2	5101.1	5061.7	5227.0	5475.0	5427.8	5412.0
45°	9643.2	9651.1	9355.9	7864.2	6207.1	5608.8	5636.4	5762.3	6179.5	6144.1	6140.2
47.5°	10524.9	10414.7	10371.4	9253.6	7474.5	6573.1	6533.8	6620.4	7163.6	7387.9	7490.2
50°	11327.9	11253.1	11150.7	10603.6	8997.7	7781.5	7742.1	7750.0	8580.5	8895.4	9147.3
52.5°	12323.7	12418.1	12079.6	11745.1	10969.7	9352.0	9308.7	9155.2	10186.4	10619.4	10918.5
55°	13551.7	13374.6	12992.8	13166.0	12855.0	11048.4	10969.7	10788.6	12016.7	12197.7	12512.6
57.5°	13823.3	13689.5	14083.1	14697.1	14996.2	13040.0	13008.5	12681.8	13555.6	13390.3	14279.9
60°	14500.3	14535.7	15082.8	16303.0	16822.5	15338.7	15185.2	14610.5	15047.4	15078.9	16027.5
62.5°	15197.0	15114.3	16338.4	17511.3	18310.4	17515.3	17464.1	16322.7	16818.6	16417.1	17672.7
65°	14685.3	14811.2	16562.8	18526.8	20239.0	19644.7	19601.4	17971.9	18243.4	17743.6	18341.8
67.5°	12866.8	12611.0	15063.1	18062.4	21230.9	21876.4	21829.2	19770.6	19046.4	17735.7	16952.4
70°	9430.7	9210.3	11209.8	15295.4	19810.0	23017.8	23206.8	21022.3	18719.7	16082.6	13079.4
72.5°	4620.9	4624.8	6281.9	10371.4	15673.2	20979.0	21073.4	19274.7	16082.6	11855.3	7407.6
75°	1365.8	1381.5	2326.2	5085.3	10131.3	15933.0	16039.3	14630.2	11146.8	6124.4	2526.9
77.5°	499.9	499.9	771.5	1909.0	5053.8	10056.5	10048.7	8982.0	5644.2	2074.3	590.4
80°	259.8	271.6	401.5	779.3	2188.4	5238.8	5435.6	4396.5	2145.1	873.8	173.2
82.5°	106.3	118.1	220.4	401.5	1050.9	1838.1	2011.3	1724.0	932.8	610.1	78.7
85°	31.5	35.4	106.3	224.4	413.3	460.5	511.7	578.6	586.5	472.3	35.4
87.5°	3.9	3.9	43.3	74.8	90.5	98.4	114.1	114.1	299.1	330.6	19.7
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°	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4	2684.4
2.5°	2704.0	2684.4	2652.9	2582.0	2566.3	2515.1	2511.2	2463.9	2479.7	2448.2	2436.4
5°	2684.4	2641.1	2554.5	2499.4	2444.3	2408.8	2385.2	2365.5	2361.6	2345.9	2338.0
7.5°	2719.8	2660.7	2526.9	2440.3	2345.9	2314.4	2263.2	2259.3	2231.7	2204.2	2204.2
10°	2837.9	2731.6	2586.0	2440.3	2318.3	2216.0	2097.9	2011.3	1979.8	1909.0	1916.8
12.5°	2932.3	2837.9	2625.3	2475.8	2290.8	2058.5	1798.8	1598.0	1503.6	1413.0	1448.5
15°	3066.2	2928.4	2700.1	2483.6	2184.5	1783.0	1357.9	1133.6	1047.0	1027.3	1023.4
17.5°	3211.8	3066.2	2794.6	2463.9	1968.0	1377.6	999.7	869.9	885.6	909.2	905.3
20°	3373.2	3196.0	2865.4	2397.0	1625.6	999.7	818.7	814.8	838.4	873.8	881.7
22.5°	3542.4	3388.9	2952.0	2196.3	1212.3	802.9	787.2	787.2	802.9	846.2	838.4
25°	3731.3	3526.7	2995.3	1885.4	869.9	740.0	747.8	763.6	771.5	806.9	810.8
27.5°	3877.0	3680.2	3007.1	1511.4	708.5	684.9	704.5	724.2	736.0	763.6	775.4
30°	4010.8	3873.0	2944.1	1125.7	649.4	637.6	645.5	673.1	696.7	720.3	720.3
32.5°	4180.1	3983.2	2798.5	799.0	614.0	594.3	590.4	602.2	629.8	657.3	657.3
35°	4353.2	4168.2	2566.3	641.6	582.5	555.0	539.2	527.4	539.2	558.9	574.7
37.5°	4605.1	4447.7	2275.0	590.4	558.9	519.6	488.1	460.5	440.8	436.9	448.7
40°	4963.3	4762.6	1901.1	555.0	531.4	484.1	436.9	389.7	346.4	318.8	322.8
42.5°	5506.5	5227.0	1495.7	535.3	511.7	444.8	377.9	310.9	255.8	228.3	228.3
45°	6281.9	5841.1	1098.1	515.6	488.1	397.5	310.9	232.2	177.1	161.4	165.3
47.5°	7450.9	6581.0	787.2	484.1	456.6	346.4	244.0	165.3	129.9	122.0	126.0
50°	8978.1	7458.8	614.0	448.7	417.2	291.3	181.1	122.0	102.3	98.4	102.3
52.5°	10580.0	8344.4	539.2	417.2	358.2	232.2	133.8	98.4	86.6	82.7	86.6
55°	11949.7	8915.1	468.4	370.0	287.3	173.2	106.3	86.6	74.8	63.0	63.0
57.5°	13335.2	9202.4	370.0	307.0	212.5	129.9	90.5	74.8	63.0	51.2	47.2
60°	14460.9	9407.1	263.7	228.3	149.6	102.3	78.7	66.9	51.2	39.4	35.4
62.5°	15200.9	8820.6	192.9	173.2	110.2	86.6	66.9	55.1	39.4	27.6	27.6
65°	14834.9	8009.8	149.6	122.0	82.7	66.9	55.1	39.4	27.6	15.7	11.8
67.5°	13311.6	6525.9	122.0	90.5	63.0	51.2	43.3	31.5	15.7	3.9	3.9
70°	9930.6	4782.3	98.4	66.9	51.2	39.4	31.5	19.7	7.9	3.9	0.0
72.5°	5431.7	2617.5	78.7	55.1	39.4	31.5	23.6	15.7	7.9	0.0	0.0
75°	1794.8	696.7	59.0	39.4	23.6	19.7	15.7	11.8	3.9	0.0	0.0
77.5°	433.0	181.1	47.2	35.4	19.7	11.8	7.9	3.9	3.9	0.0	0.0
80°	133.8	74.8	35.4	23.6	15.7	11.8	3.9	0.0	0.0	0.0	0.0
82.5°	55.1	35.4	15.7	15.7	11.8	3.9	0.0	0.0	0.0	0.0	0.0
85°	27.6	19.7	11.8	7.9	7.9	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	19.7	7.9	3.9	3.9	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)