

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: P478111

Luminaire Tested: **IFLD-L-SA8D-730-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478111  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-730-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

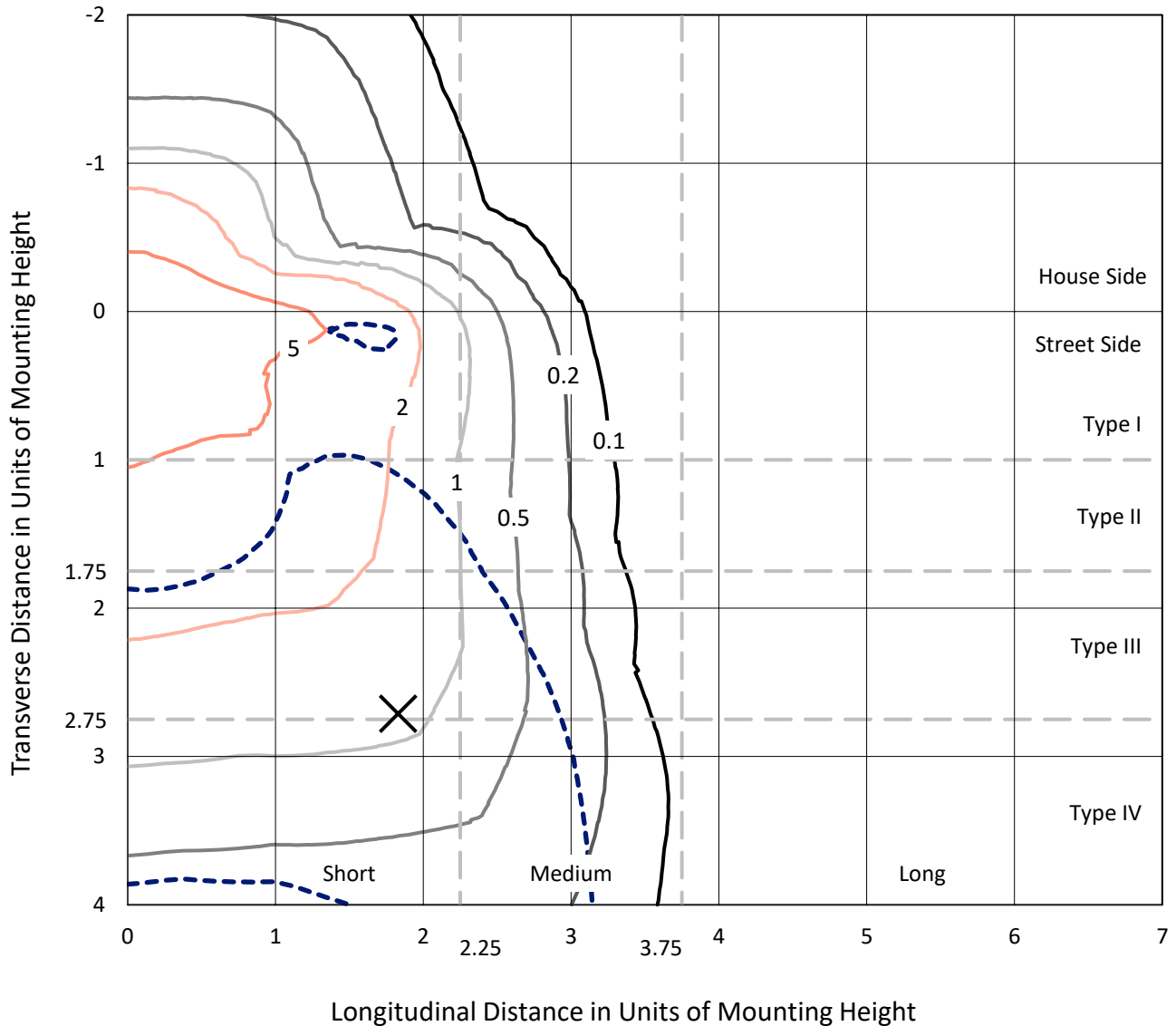
Lumens per Lamp: N/A  
Luminaire Lumens: 52007.1 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3  
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

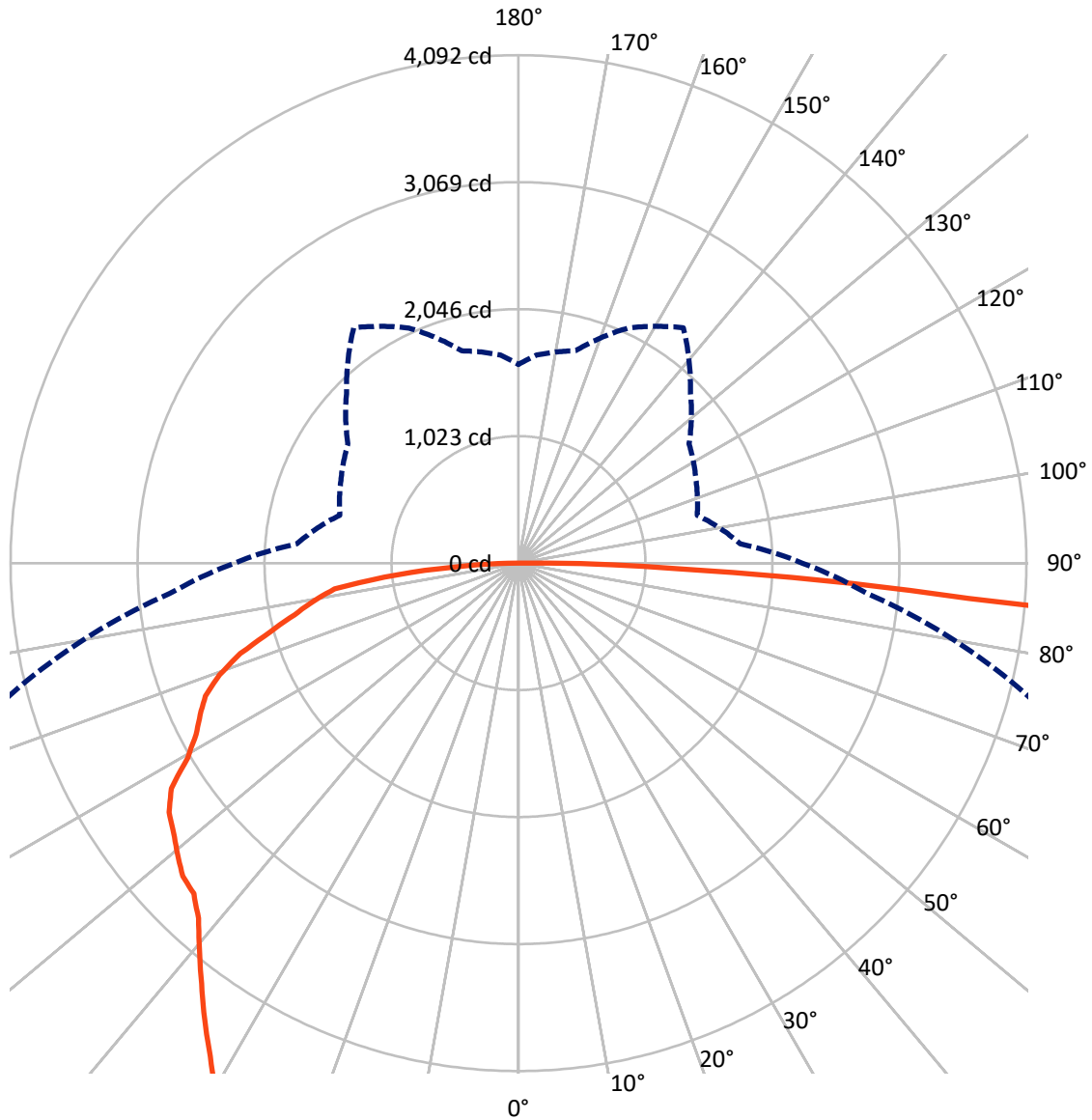
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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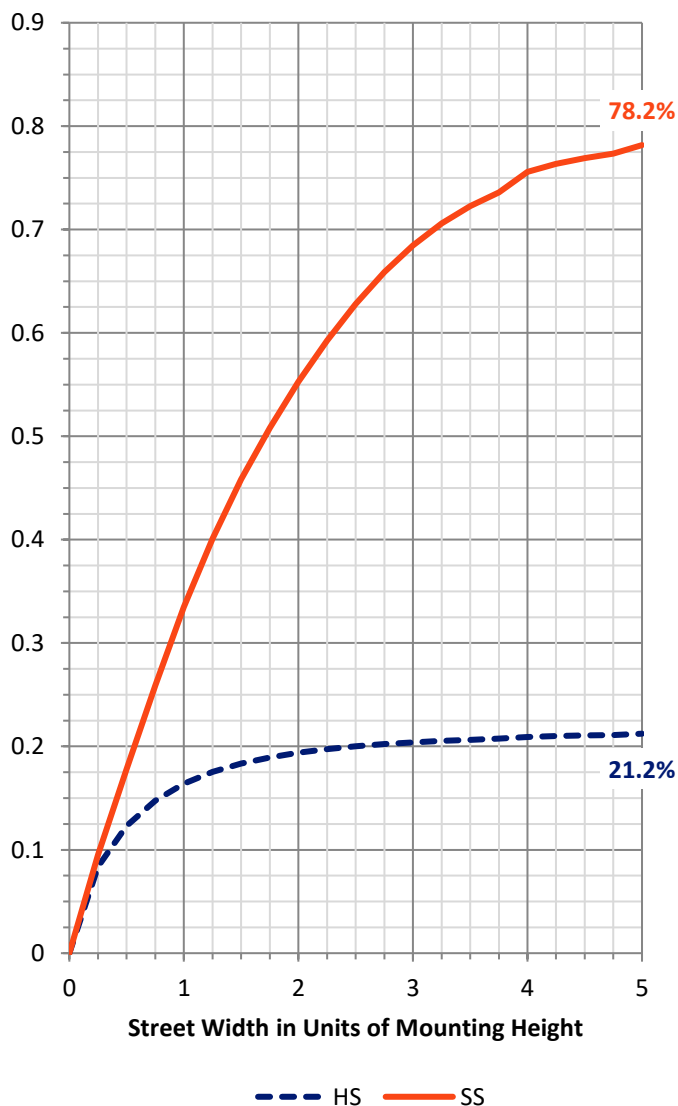
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11234.2	0.0	11234.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	40772.9	0.0	40772.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	52007.1	0.0	52007.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.2	1.3
10°-20°	1925.9	3.7
20°-30°	3169.7	6.1
30°-40°	4740.2	9.1
40°-50°	7027.2	13.5
50°-60°	10126.9	19.5
60°-70°	12923.3	24.8
70°-80°	10056.5	19.3
80°-90°	1349.1	2.6
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°	52007.1	100.0
0°-180°	52007.1	100.0

**Coefficient of Utilization**



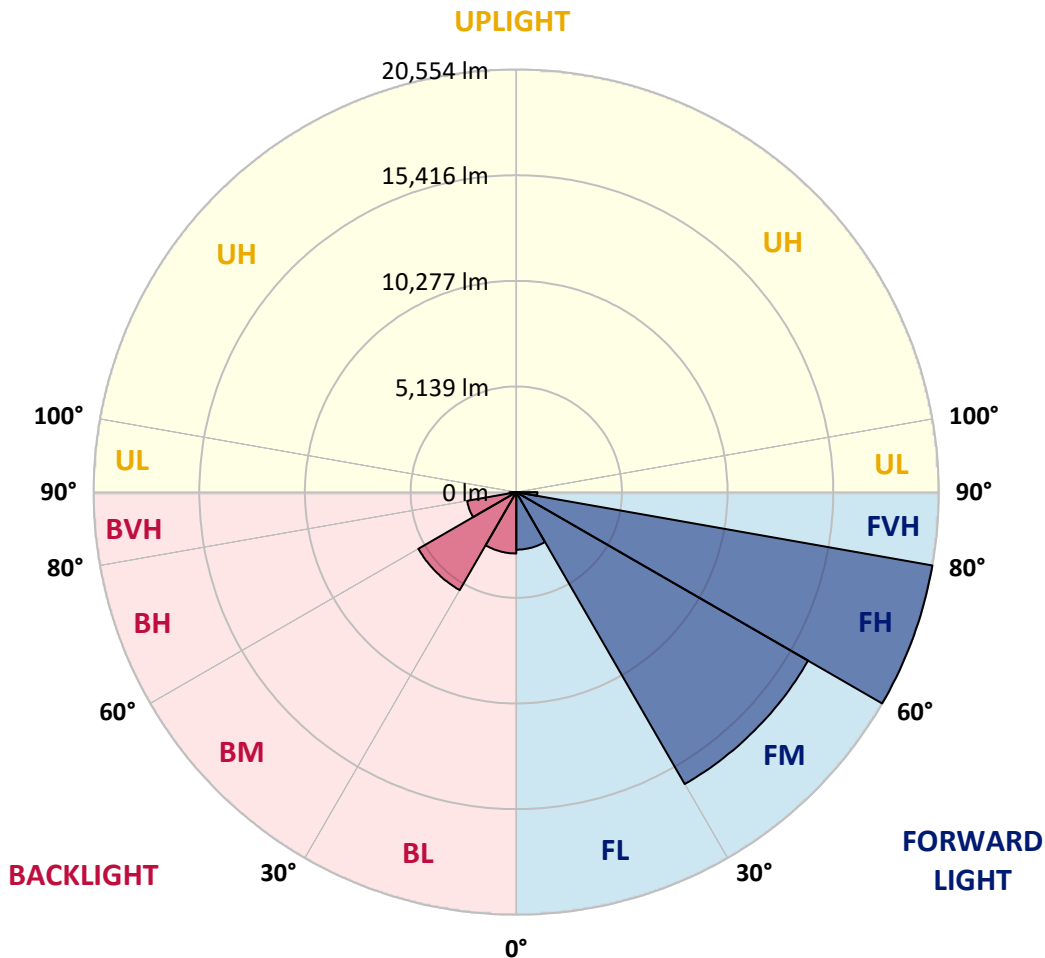
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2798.9	5.4			
FM (30°-60°)	16393.0	31.5			
FH (60°-80°)	20554.1	39.5			G5
FVH (80°-90°)	1026.9	2.0			G5
BL (0°-30°)	2984.8	5.7	B4/5000		
BM (30°-60°)	5501.4	10.6	B4/8500		
BH (60°-80°)	2425.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	322.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0
2.5°	6680.7	6702.7	6774.2	6790.7	6867.7	6823.7	6917.2	7082.1	7175.6	7313.1	7478.0
5°	6152.9	6059.4	6103.4	6273.8	6361.8	6383.8	6482.8	6763.2	6939.2	7142.6	7450.5
7.5°	5531.5	5515.0	5603.0	5713.0	5888.9	5905.4	6125.4	6372.8	6735.7	7186.6	7549.5
10°	5108.2	5179.6	5229.1	5344.6	5465.6	5465.6	5746.0	6174.9	6587.3	7021.6	7571.5
12.5°	5086.2	5042.2	5053.2	5113.7	5201.6	5311.6	5575.5	5960.4	6482.8	6988.7	7665.0
15°	5157.6	5174.1	5075.2	5152.1	5185.1	5223.6	5515.0	5949.4	6416.8	7104.1	7824.4
17.5°	5537.0	5443.6	5289.6	5218.1	5333.6	5333.6	5531.5	5872.5	6427.8	7164.6	8055.4
20°	5834.0	5834.0	5581.0	5504.0	5586.5	5570.0	5707.5	5960.4	6482.8	7285.6	8313.8
22.5°	6334.3	6405.8	5987.9	5828.5	5823.0	5867.0	5987.9	6202.4	6636.7	7456.0	8561.2
25°	7054.6	7071.1	6587.3	6422.3	6246.4	6317.8	6339.8	6554.3	6774.2	7654.0	8841.7
27.5°	7857.4	7846.4	7401.0	6988.7	6873.2	6889.7	6768.7	6911.7	6977.7	7714.5	9243.1
30°	8748.2	8649.2	8313.8	7731.0	7637.5	7533.0	7269.1	7263.6	7401.0	8055.4	9798.4
32.5°	9331.0	9204.6	8973.6	8555.7	8297.3	8308.3	7890.4	7884.9	7764.0	8429.3	10282.3
35°	9902.9	9710.4	9650.0	9221.1	8962.6	8990.1	8654.7	8610.7	8390.8	8995.6	11079.6
37.5°	10590.2	10419.8	10513.2	10188.8	9869.9	9737.9	9584.0	9529.0	9243.1	9792.9	12168.3
40°	11349.0	11294.0	11233.5	11074.1	10881.6	10892.6	10727.7	10672.7	10249.3	10755.2	13213.0
42.5°	12371.7	12162.8	11849.4	11953.8	12052.8	12157.3	12102.3	11959.3	11519.5	11733.9	14378.7
45°	13323.0	13048.1	12470.7	12503.7	12910.6	12993.1	13658.4	13641.9	12756.6	12976.6	15703.9
47.5°	13966.3	13839.8	13493.4	13454.9	14037.8	14032.3	15231.0	15231.0	14059.8	14213.7	17128.0
50°	14923.1	14593.1	14444.7	14637.1	14934.1	15137.5	16836.6	16941.0	15341.0	15505.9	18992.0
52.5°	16044.8	15632.4	15258.5	15753.3	16281.2	16413.2	18425.6	18381.6	16325.2	17007.0	21174.9
55°	16974.0	16765.1	16506.6	16792.6	17655.8	17820.8	20020.2	19613.3	17309.4	18249.7	22225.1
57.5°	18057.2	18183.7	18238.7	18167.2	19195.4	19453.9	21840.2	20674.5	18156.2	19085.5	22841.0
60°	19690.3	19767.3	19838.8	20009.2	21097.9	21460.8	23280.9	22005.2	18689.6	19569.3	22890.5
62.5°	22175.6	21878.7	22038.2	22626.5	23500.8	23913.2	25403.3	22939.9	19096.5	19860.8	21273.9
65°	25018.4	24617.0	24452.0	25210.8	27476.2	27146.3	28053.6	23638.3	18508.1	18772.0	18040.7
67.5°	27899.6	27943.6	27520.2	29043.3	31820.1	31820.1	30516.9	23973.7	16913.5	15214.5	12652.2
70°	30187.0	30324.5	30555.4	33508.2	37907.0	38572.3	33568.6	22599.0	13663.9	10128.3	6917.2
72.5°	30154.0	29741.7	30923.8	36361.9	43438.5	42883.2	34206.5	17870.3	8528.2	4959.7	3172.7
73°	29477.7	29131.3	30423.5	36334.4	43664.0	43141.6	33739.1	16473.7	7522.0	4299.9	2820.8
75°	24072.6	23445.8	25645.2	32908.8	40397.8	40799.2	28663.9	10744.2	4123.9	2650.3	1985.0
77.5°	10975.1	11250.0	14114.8	22076.7	31132.8	31605.7	18843.5	4646.3	2259.9	1858.5	1462.6
80°	3524.6	3700.5	5493.1	10975.1	19514.4	20366.6	8709.7	2111.4	1611.1	1424.1	1094.2
82.5°	1347.1	1341.6	2303.9	4563.8	9248.6	9792.9	3183.7	1286.7	1198.7	1050.2	775.3
85°	472.9	494.9	868.8	1803.5	3640.0	3810.5	1105.2	714.8	830.3	703.8	445.4
87.5°	165.0	170.5	307.9	654.3	1253.7	1325.2	307.9	285.9	412.4	406.9	225.4
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°	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0
2.5°	7533.0	7582.5	7599.0	7796.9	7796.9	7796.9	7873.9	7873.9	7851.9	7796.9	7928.9
5°	7566.0	7654.0	7824.4	7994.9	8038.9	8077.4	8181.8	8093.9	8126.9	8071.9	8121.4
7.5°	7659.5	7780.4	8099.4	8203.8	8132.4	8214.8	8104.9	8044.4	7983.9	8005.9	7928.9
10°	7818.9	7972.9	8121.4	8313.8	8176.3	8093.9	7868.4	7813.4	7621.0	7555.0	7615.5
12.5°	8016.9	8203.8	8456.8	8385.3	8121.4	7884.9	7643.0	7412.0	7296.6	7131.6	7175.6
15°	8214.8	8429.3	8467.8	8346.8	8016.9	7720.0	7280.1	6955.7	6840.2	6691.7	6768.7
17.5°	8429.3	8632.7	8566.7	8253.3	7807.9	7357.1	6856.7	6537.8	6295.8	6202.4	6202.4
20°	8748.2	8847.2	8742.7	8099.4	7555.0	6961.2	6477.3	6114.4	5872.5	5834.0	5773.5
22.5°	8995.6	9155.1	8687.7	7873.9	7186.6	6444.3	5888.9	5751.5	5680.0	5619.5	5542.5
25°	9314.5	9309.0	8588.7	7665.0	6554.3	5828.5	5493.1	5482.1	5449.1	5427.1	5531.5
27.5°	9617.0	9490.5	8473.3	7148.1	5899.9	5361.1	5179.6	5300.6	5350.1	5317.1	5361.1
30°	10095.3	9886.4	8308.3	6598.3	5322.6	4888.2	4921.2	5086.2	5168.6	5218.1	5152.1
32.5°	10601.2	10282.3	7967.4	6026.4	4811.2	4591.3	4668.3	4838.7	4937.7	4992.7	5053.2
35°	11332.5	10590.2	7621.0	5278.6	4442.8	4409.8	4453.8	4547.3	4690.3	4728.8	4745.2
37.5°	12234.3	11057.6	7153.6	4679.3	4156.9	4195.4	4239.4	4272.4	4277.9	4349.4	4321.9
40°	13136.0	11453.5	6471.8	4107.4	3860.0	4068.9	4046.9	3986.4	3937.0	3871.0	3854.5
42.5°	13927.8	11799.9	5713.0	3623.5	3596.1	3937.0	3865.5	3711.5	3596.1	3546.6	3464.1
45°	14818.6	12289.3	4948.7	3321.1	3392.6	3777.5	3755.5	3519.1	3370.6	3194.7	3172.7
47.5°	15973.3	12800.6	4217.4	3007.7	3200.2	3717.0	3728.0	3425.6	3211.2	2974.7	2941.7
50°	17452.4	13537.4	3662.0	2875.7	3084.7	3629.0	3645.5	3299.1	3018.7	2776.8	2754.8
52.5°	18871.0	14290.7	3200.2	2672.3	3007.7	3524.6	3563.1	3183.7	2859.2	2556.8	2573.3
55°	19585.8	14015.8	2804.3	2523.8	2831.8	3354.1	3497.1	3101.2	2617.3	2408.4	2402.9
57.5°	19745.3	13339.5	2490.8	2369.9	2683.3	3172.7	3387.1	2853.7	2507.3	2331.4	2309.4
60°	19222.9	12157.3	2243.4	2204.9	2496.3	2985.7	3134.2	2721.8	2397.4	2254.4	2221.4
62.5°	17936.3	10931.1	2073.0	2127.9	2336.9	2782.3	2974.7	2628.3	2292.9	2193.9	2122.4
65°	14708.6	8990.1	1935.5	1979.5	2171.9	2584.3	2875.7	2523.8	2199.4	2105.9	2100.4
67.5°	10188.8	6196.9	1825.5	1908.0	2040.0	2441.4	2776.8	2408.4	2078.5	2045.5	2001.5
70°	5218.1	3304.6	1682.6	1748.5	1897.0	2259.9	2600.8	2287.4	1952.0	1946.5	1891.5
72.5°	2644.8	1935.5	1517.6	1616.6	1721.0	2023.5	2380.9	2127.9	1792.5	1732.0	1644.1
73°	2287.4	1792.5	1490.1	1578.1	1677.1	1957.5	2314.9	2089.4	1770.5	1682.6	1600.1
75°	1666.1	1413.1	1336.1	1424.1	1501.1	1765.0	2094.9	1913.5	1627.6	1534.1	1457.1
77.5°	1248.2	1088.7	1110.7	1209.7	1275.7	1523.1	1864.0	1732.0	1473.6	1347.1	1314.2
80°	918.3	830.3	918.3	1011.7	1061.2	1341.6	1699.1	1501.1	1242.7	1099.7	1072.2
82.5°	654.3	604.8	709.3	769.8	791.8	1110.7	1528.6	1198.7	940.3	753.3	692.8
85°	373.9	368.4	478.4	472.9	489.4	648.8	1006.2	797.3	604.8	461.9	450.9
87.5°	165.0	181.5	241.9	192.4	203.4	307.9	428.9	296.9	247.4	137.5	104.5
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)