

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: P481254

Luminaire Tested: **IFLD-S-SA6C-735-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481254  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-735-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

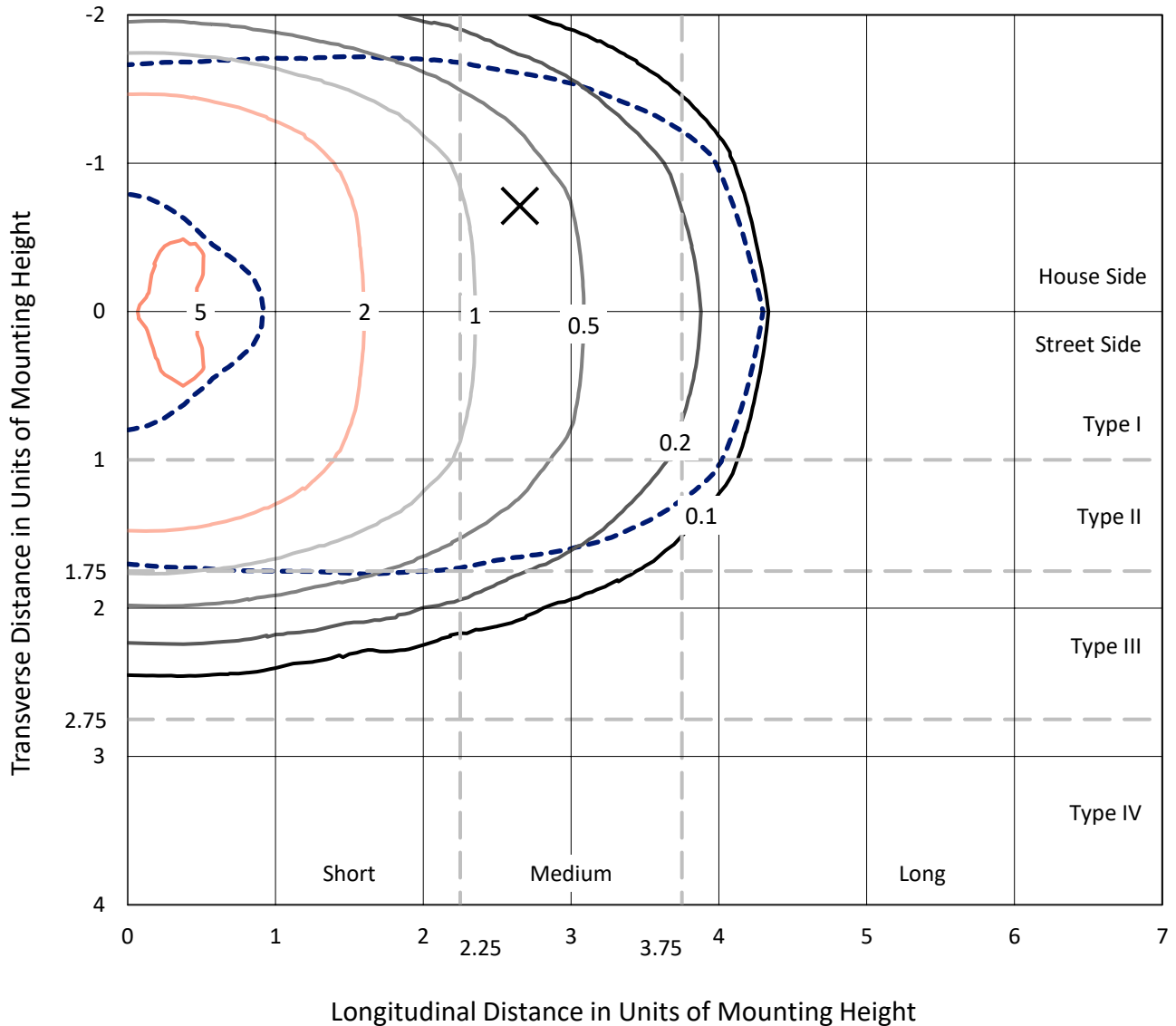
Lumens per Lamp: N/A  
Luminaire Lumens: 42213.2 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

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

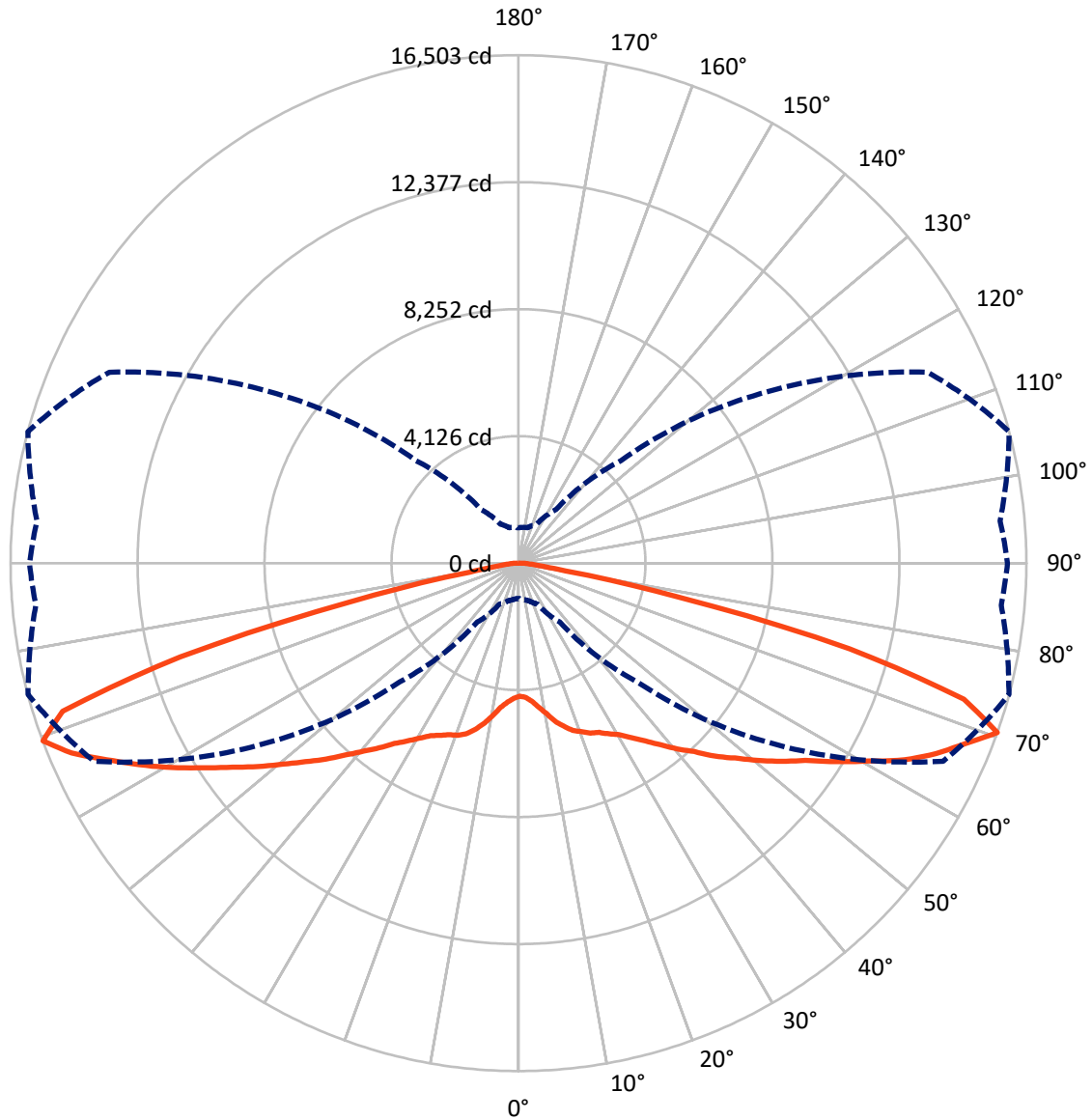
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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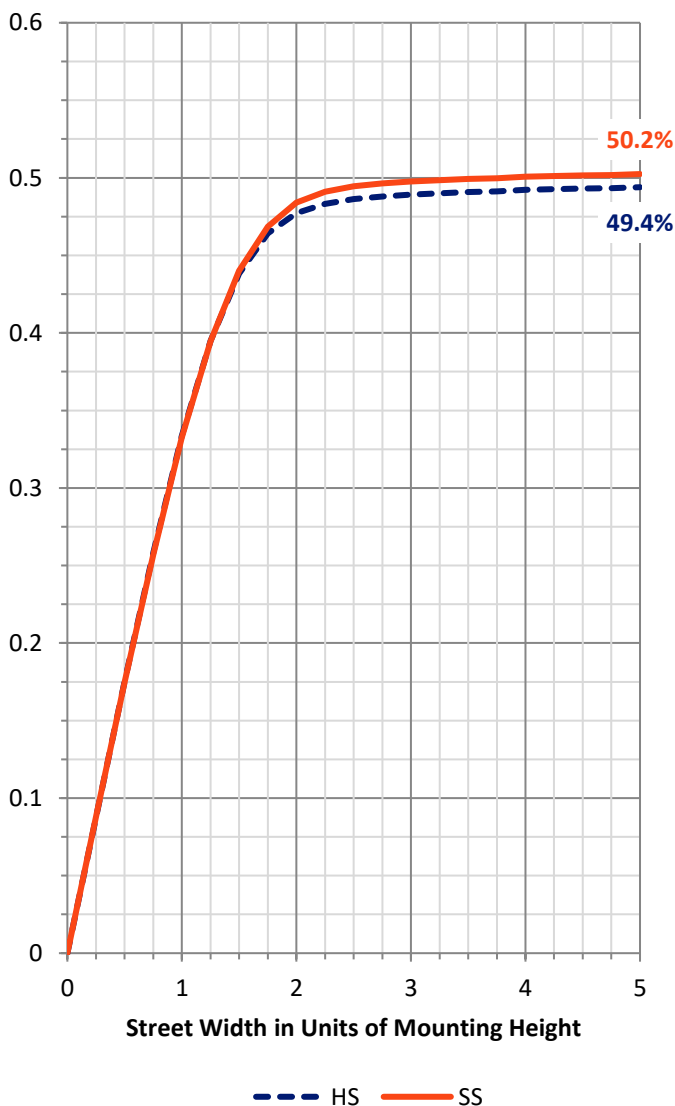
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20956.4	0.0	20956.4
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	21256.8	0.0	21256.8
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	42213.2	0.0	42213.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.2	1.0
10°-20°	1464.9	3.5
20°-30°	2836.6	6.7
30°-40°	4797.9	11.4
40°-50°	7654.1	18.1
50°-60°	10476.8	24.8
60°-70°	9875.1	23.4
70°-80°	4350.3	10.3
80°-90°	327.3	0.8
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°	42213.2	100.0
0°-180°	42213.2	100.0

**Coefficient of Utilization**

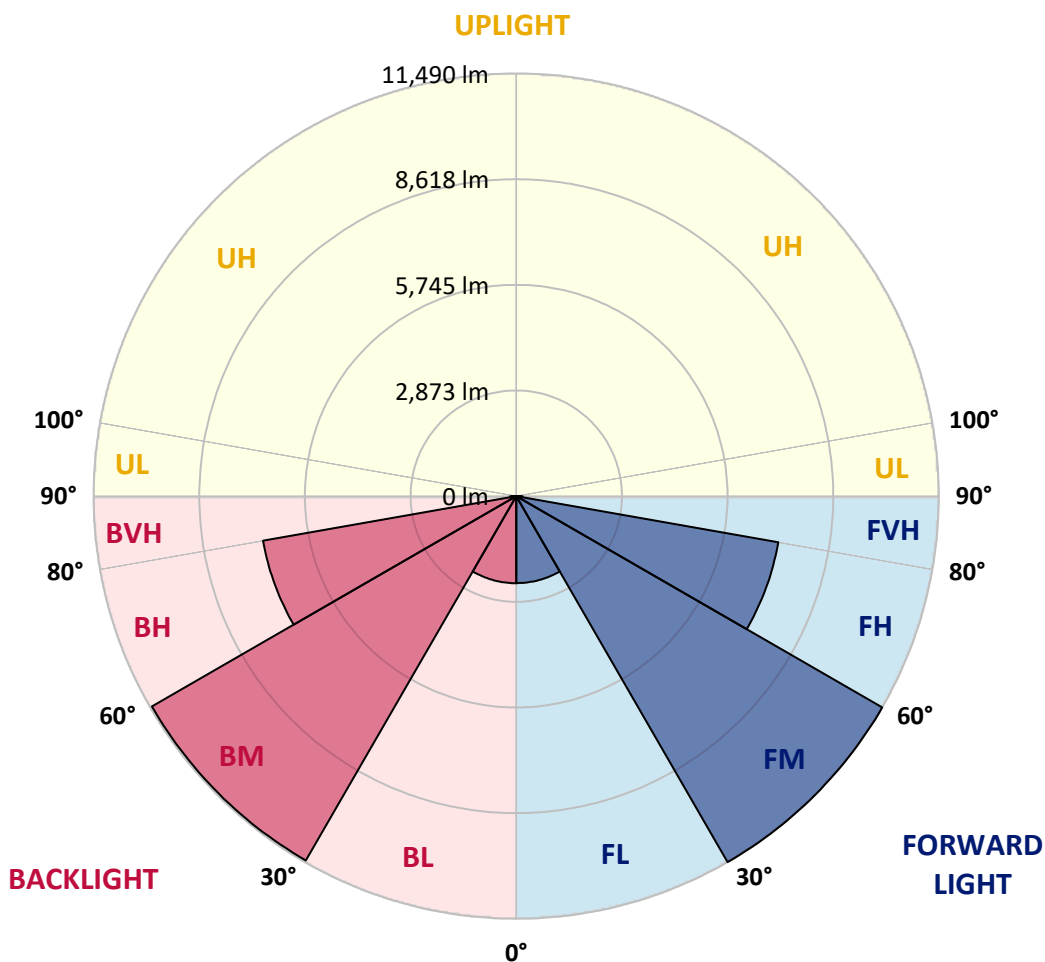


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2364.6	5.6			
FM (30°-60°)	11490.0	27.2			
FH (60°-80°)	7234.9	17.1			G3/7500
FVH (80°-90°)	167.2	0.4			G2/225
BL (0°-30°)	2367.2	5.6	B3/2500		
BM (30°-60°)	11438.7	27.1	B5		
BH (60°-80°)	6990.4	16.6	B5		G5
BVH (80°-90°)	160.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4322.6	4322.6	4322.6	4322.6	4322.6	4322.6	4322.6	4322.6	4322.6	4322.6	4322.6
2.5°	4295.3	4295.3	4290.7	4313.5	4336.2	4345.3	4363.5	4368.1	4395.4	4372.6	4418.1
5°	4281.6	4277.1	4313.5	4368.1	4368.1	4427.2	4463.6	4513.7	4527.3	4554.6	4563.7
7.5°	4377.2	4368.1	4349.9	4409.0	4459.1	4550.1	4600.1	4686.6	4718.4	4754.8	4795.8
10°	4436.3	4436.3	4418.1	4522.8	4568.3	4691.1	4800.3	4886.8	5009.6	5050.6	5055.1
12.5°	4445.4	4459.1	4513.7	4650.2	4777.6	4936.8	5018.7	5182.6	5305.4	5382.8	5410.1
15°	4581.9	4554.6	4613.8	4800.3	4986.9	5128.0	5273.6	5391.9	5569.3	5669.4	5733.1
17.5°	4704.8	4677.5	4786.7	5009.6	5200.8	5419.2	5546.6	5674.0	5801.4	5892.4	5896.9
20°	4900.4	4923.2	5018.7	5259.9	5510.2	5701.3	5846.9	5869.6	5933.3	6065.3	6042.5
22.5°	5141.6	5123.4	5323.6	5587.5	5860.5	6019.8	6101.7	6042.5	6010.7	6151.7	6183.6
25°	5382.8	5437.4	5619.4	5865.1	6192.7	6406.5	6429.3	6265.5	6147.2	6197.2	6183.6
27.5°	5751.3	5760.4	5951.5	6242.7	6574.9	6761.4	6747.8	6515.7	6288.2	6292.8	6301.9
30°	6224.5	6179.0	6388.3	6652.2	6979.8	7148.2	7170.9	6838.8	6533.9	6442.9	6465.7
32.5°	6679.5	6734.1	6916.1	7216.4	7457.6	7553.1	7503.1	7207.3	6811.5	6688.6	6702.3
35°	7261.9	7252.8	7503.1	7757.9	7939.9	7958.1	7917.2	7484.9	7111.8	6952.5	6888.8
37.5°	7885.3	7967.2	8131.0	8340.3	8531.4	8540.5	8317.6	7971.8	7512.2	7248.3	7325.6
40°	8581.5	8672.5	8790.8	9095.6	9236.7	9091.1	8863.6	8394.9	7917.2	7685.1	7721.5
42.5°	9195.7	9236.7	9477.8	9837.3	9905.5	9841.8	9505.1	8936.4	8381.3	8126.5	8144.7
45°	9759.9	9814.5	10128.5	10451.6	10610.8	10501.6	10110.3	9568.8	8922.7	8704.3	8617.9
47.5°	10278.7	10387.9	10692.7	11024.9	11270.6	11279.7	10797.4	10142.2	9459.6	9173.0	9168.4
50°	10629.0	10788.3	11088.6	11466.2	11825.7	11966.7	11484.4	10779.2	10046.6	9741.7	9709.9
52.5°	10820.1	10983.9	11284.2	11871.2	12271.6	12490.0	12262.5	11375.2	10733.7	10415.2	10365.1
55°	10588.1	10697.3	11188.7	12012.2	12631.0	12990.5	12840.4	12198.8	11416.2	11156.8	11202.3
57.5°	9600.7	9828.2	10433.4	11461.7	12621.9	13504.7	13491.0	12976.9	12203.3	11957.6	11966.7
60°	7903.5	8094.6	8840.8	10278.7	12112.3	13714.0	14196.3	13732.2	13086.1	12799.4	12790.3
62.5°	5578.4	5819.6	6684.1	8253.9	10610.8	13422.8	15006.2	14683.1	13950.6	13741.3	13818.6
65°	3121.4	3267.0	4067.8	5487.4	8085.5	11821.1	15151.8	15670.5	14828.7	14510.2	14523.9
67.5°	1669.9	1724.5	2097.6	2880.2	4945.9	9113.8	13682.1	16239.3	15779.7	15229.2	15142.7
70°	1146.6	1164.8	1260.4	1474.2	2338.7	5451.0	10319.6	15224.6	16494.1	15743.3	15888.9
72.5°	969.2	960.1	982.8	1005.6	1224.0	2438.8	6056.2	11716.5	15570.4	15288.3	15233.7
75°	841.8	837.2	846.3	823.6	850.9	1073.8	2680.0	7302.9	11398.0	12722.1	12926.8
77.5°	696.2	700.7	705.3	682.5	673.4	709.8	1078.4	3207.8	5610.3	6192.7	6679.5
80°	527.8	536.9	573.3	550.6	514.2	518.7	637.0	1073.8	1610.7	1460.6	1506.1
82.5°	359.5	364.0	441.4	414.1	386.8	350.4	409.5	555.1	627.9	477.8	418.6
85°	254.8	250.3	286.7	263.9	245.7	177.5	245.7	314.0	377.7	236.6	213.9
87.5°	59.2	59.2	118.3	95.6	91.0	72.8	95.6	122.9	163.8	104.7	95.6
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4322.6	4322.6	4322.6	4322.6	4322.6	4322.6	4322.6	4322.6	4322.6	4322.6
2.5°	4404.5	4363.5	4363.5	4354.4	4318.0	4308.9	4277.1	4286.2	4263.4	4240.7
5°	4559.2	4504.6	4504.6	4427.2	4354.4	4345.3	4308.9	4308.9	4272.5	4281.6
7.5°	4773.0	4723.0	4641.1	4572.8	4472.7	4431.8	4363.5	4354.4	4345.3	4327.1
10°	5027.8	4964.1	4882.2	4741.2	4659.3	4581.9	4513.7	4418.1	4395.4	4399.9
12.5°	5373.7	5273.6	5096.1	4973.2	4868.6	4768.5	4668.4	4527.3	4495.5	4509.1
15°	5619.4	5492.0	5314.5	5269.0	5128.0	5005.1	4841.3	4682.0	4627.4	4613.8
17.5°	5819.6	5714.9	5610.3	5542.0	5428.3	5278.1	5050.6	4868.6	4745.7	4732.1
20°	5983.4	5846.9	5824.1	5865.1	5724.0	5623.9	5346.4	5123.4	4959.6	4891.3
22.5°	6083.5	5997.0	6060.7	6097.1	6088.0	5919.7	5633.0	5373.7	5168.9	5105.2
25°	6192.7	6092.6	6320.1	6442.9	6474.8	6197.2	5974.3	5633.0	5432.8	5391.9
27.5°	6247.3	6283.7	6547.6	6806.9	6784.2	6570.3	6270.0	5965.2	5805.9	5733.1
30°	6406.5	6465.7	6866.1	7157.3	7161.8	6952.5	6725.0	6379.2	6201.8	6169.9
32.5°	6693.2	6766.0	7193.7	7503.1	7557.7	7398.4	7170.9	6957.1	6775.1	6702.3
35°	6911.6	7098.1	7580.4	7862.6	8008.2	7912.6	7785.2	7562.2	7371.1	7307.4
37.5°	7225.5	7484.9	7949.0	8331.2	8495.0	8485.9	8390.4	8149.2	7990.0	7935.4
40°	7676.0	7935.4	8358.5	8863.6	9168.4	9154.8	9100.2	8913.6	8677.0	8649.7
42.5°	8153.8	8367.6	8918.2	9496.0	9932.8	9887.3	9741.7	9523.3	9359.5	9323.1
45°	8617.9	8950.0	9459.6	10201.3	10528.9	10642.7	10469.8	10096.6	9910.1	9887.3
47.5°	9200.3	9464.2	10101.2	10765.5	11252.4	11270.6	10974.8	10629.0	10287.8	10360.6
50°	9719.0	10069.3	10715.5	11443.5	12025.9	11816.6	11438.9	11006.7	10761.0	10665.4
52.5°	10274.1	10701.8	11452.6	12194.2	12517.3	12308.0	11693.7	11211.4	10838.3	10797.4
55°	11084.0	11307.0	12289.8	12858.6	12963.2	12521.8	11616.4	10933.9	10451.6	10333.3
57.5°	11907.6	12166.9	13026.9	13518.3	13409.1	12403.5	11115.9	10060.2	9427.8	9259.4
60°	12740.3	13058.8	13782.2	14232.7	13668.5	11589.1	9700.8	8340.3	7603.2	7453.0
62.5°	13668.5	14082.5	14728.6	14887.9	12899.5	9978.3	7698.8	6019.8	5273.6	5023.3
65°	14492.0	14915.2	15711.5	14751.4	11266.0	7443.9	4977.8	3439.9	2889.3	2689.1
67.5°	15170.0	15647.8	16039.1	13054.2	8249.3	4359.0	2593.6	1810.9	1606.2	1533.4
70°	15706.9	16503.2	14674.0	9596.1	4713.9	2124.9	1401.4	1192.1	1164.8	1146.6
72.5°	15238.3	15133.6	10956.6	5537.5	2065.7	1169.4	1014.7	982.8	978.3	982.8
75°	12462.7	11115.9	6552.1	2407.0	1037.4	846.3	841.8	828.1	850.9	850.9
77.5°	6047.1	5287.2	2739.2	1032.9	682.5	664.3	687.1	687.1	687.1	687.1
80°	1401.4	1551.6	978.3	627.9	496.0	496.0	546.0	550.6	527.8	518.7
82.5°	477.8	637.0	536.9	395.9	327.6	368.6	414.1	423.2	350.4	354.9
85°	236.6	373.1	291.2	227.5	168.4	227.5	268.5	282.1	241.2	232.1
87.5°	109.2	163.8	109.2	77.4	59.2	81.9	77.4	63.7	36.4	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)