

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: P478891

Luminaire Tested: **IFLD-L-SA8D-730-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478891  
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-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

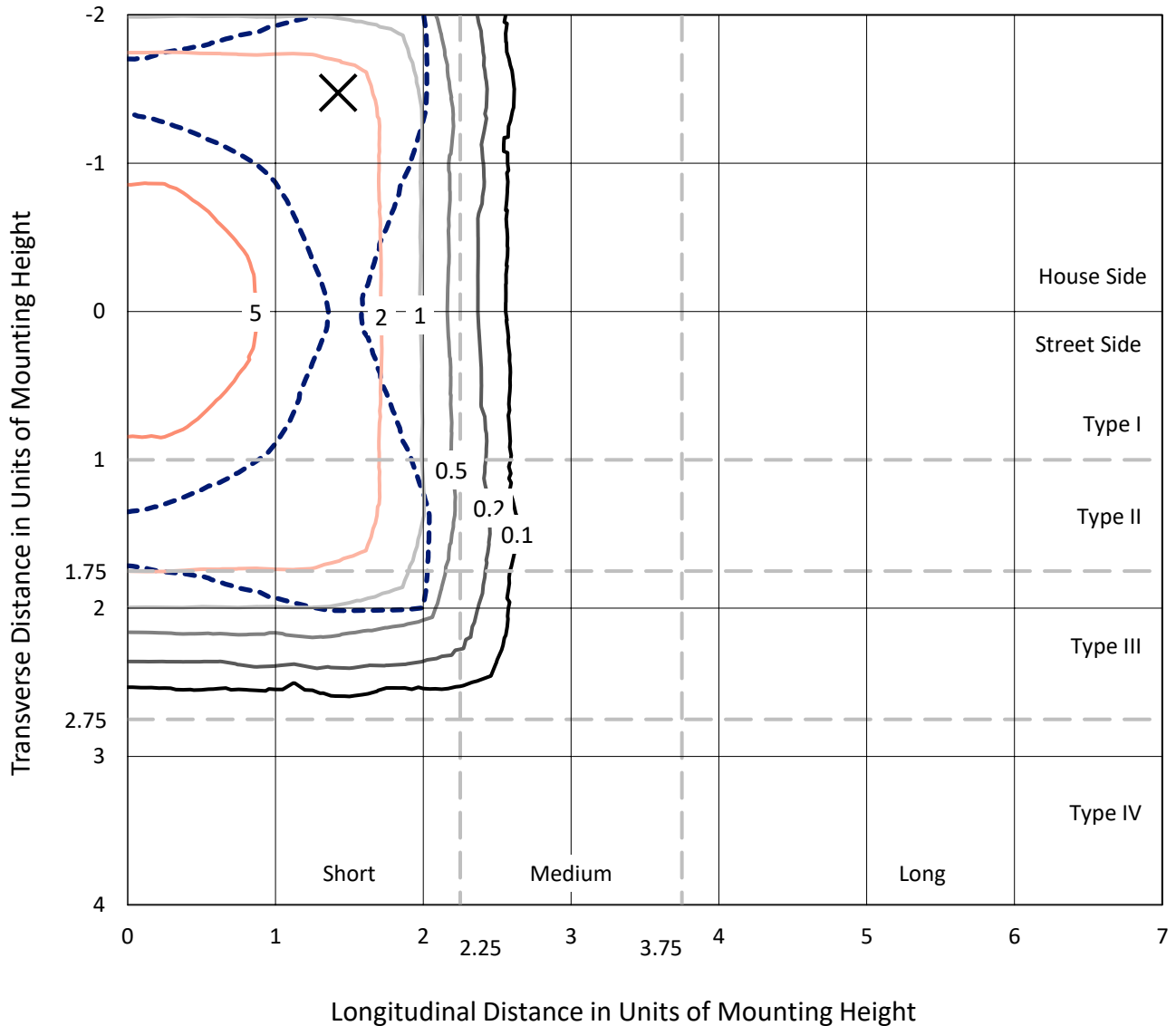
Lumens per Lamp: N/A  
Luminaire Lumens: 50630.5 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

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

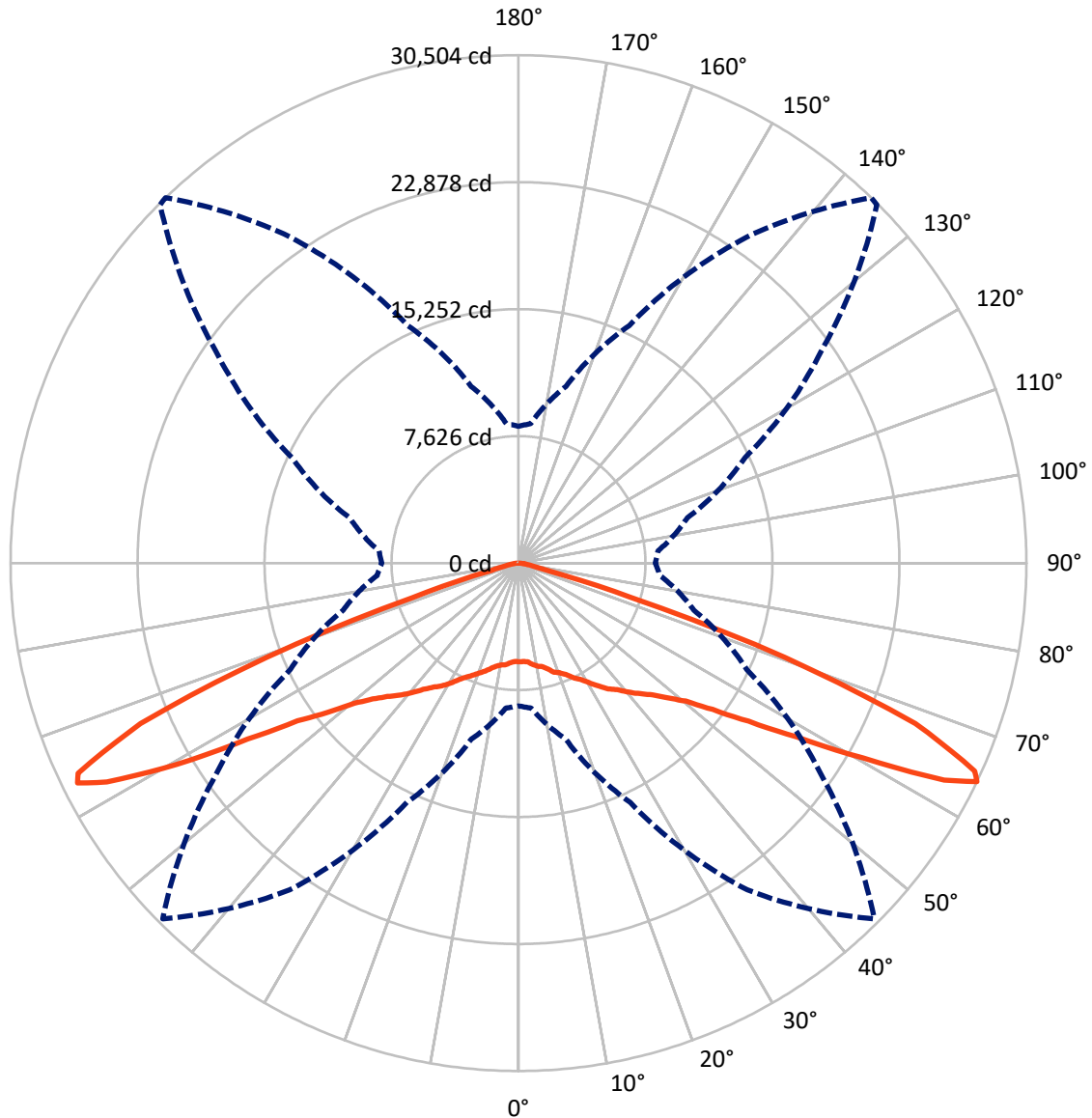
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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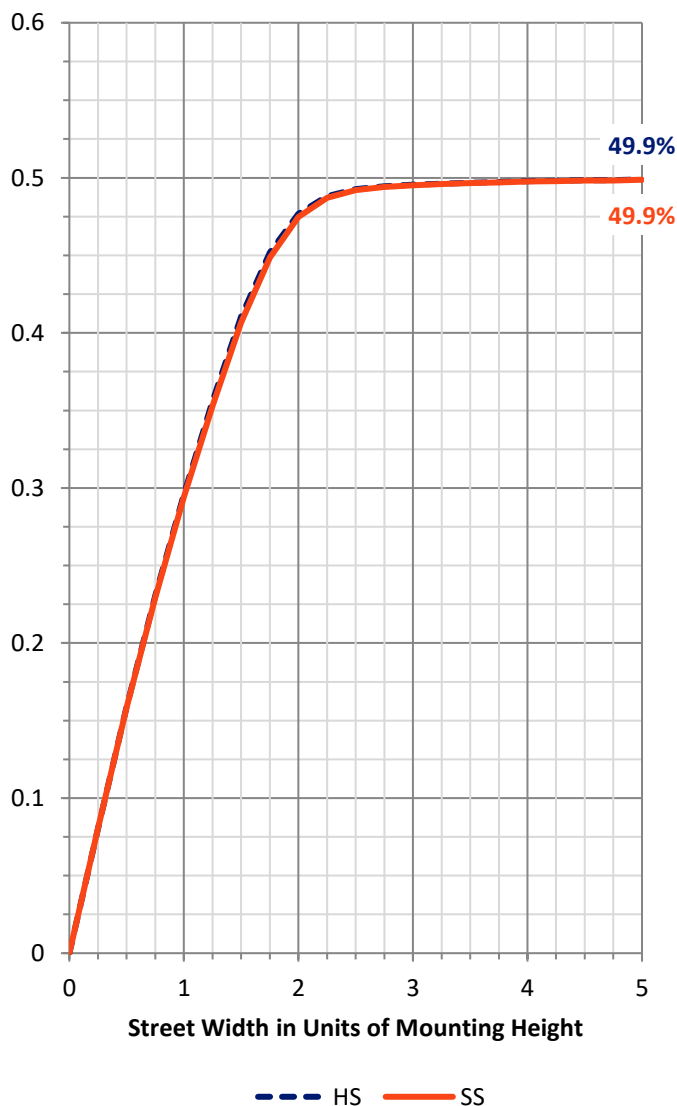
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25339.4	0.0	25339.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25291.1	0.0	25291.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50630.5	0.0	50630.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	582.4	1.2
10°-20°	1877.2	3.7
20°-30°	3528.1	7.0
30°-40°	5818.4	11.5
40°-50°	9099.6	18.0
50°-60°	14702.8	29.0
60°-70°	13238.9	26.1
70°-80°	1568.2	3.1
80°-90°	214.7	0.4
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°	50630.5	100.0
0°-180°	50630.5	100.0

**Coefficient of Utilization**



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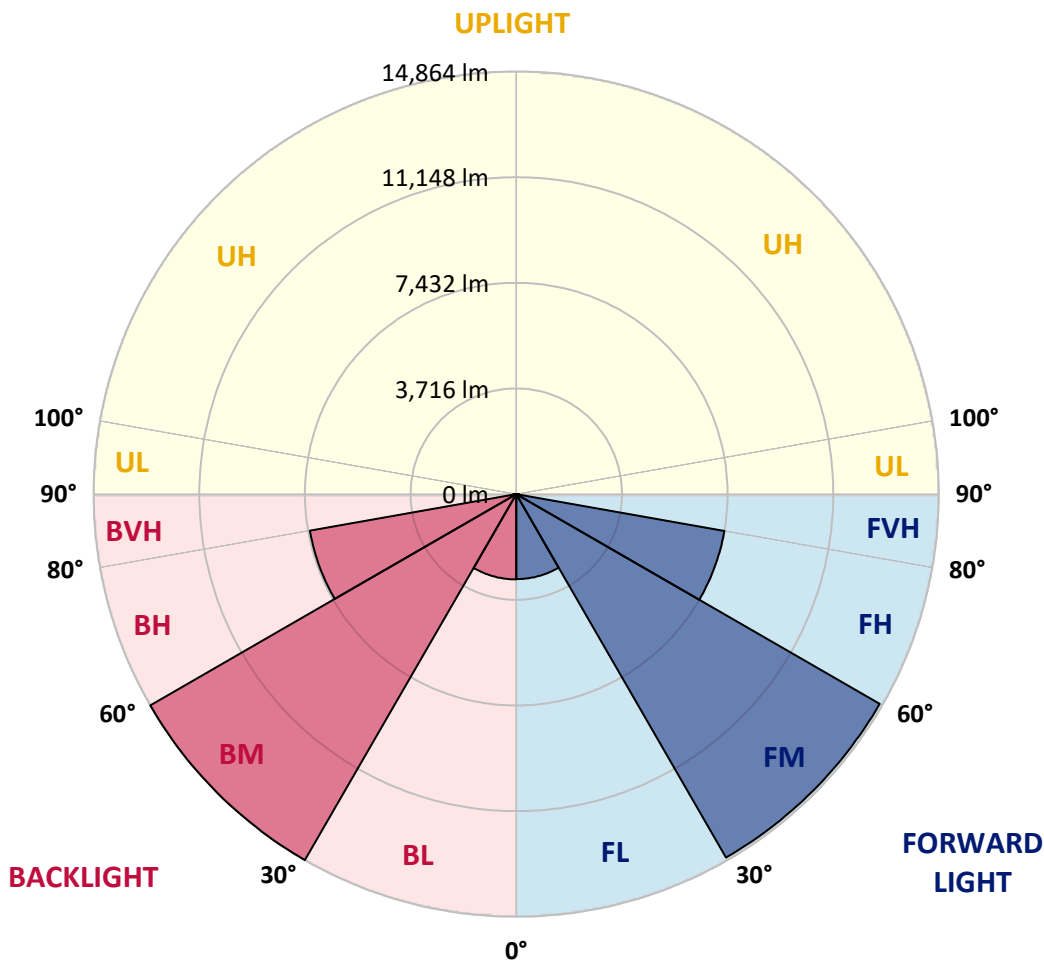
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2988.1	5.9			
FM (30°-60°)	14757.2	29.1			
FH (60°-80°)	7435.7	14.7			G3/7500
FVH (80°-90°)	110.1	0.2			G2/225
BL (0°-30°)	2999.7	5.9	B4/5000		
BM (30°-60°)	14863.7	29.4	B5		
BH (60°-80°)	7371.5	14.6	B5		G3/7500
BVH (80°-90°)	104.5	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8
2.5°	5858.1	5869.7	5974.2	5933.6	5968.4	5904.6	5951.0	6049.7	5933.6	6020.7	6049.7
5°	5922.0	5939.4	5939.4	5980.0	6003.3	5991.7	6020.7	5980.0	6090.4	6043.9	6113.6
7.5°	6154.2	6125.2	6078.7	6113.6	6119.4	6148.4	6177.4	6229.7	6212.3	6171.6	6241.3
10°	6194.9	6171.6	6241.3	6247.1	6218.1	6194.9	6223.9	6223.9	6276.1	6287.8	6287.8
12.5°	6264.5	6287.8	6281.9	6328.4	6334.2	6316.8	6363.2	6450.3	6427.1	6444.5	6403.9
15°	6531.6	6502.6	6496.8	6543.2	6618.7	6508.4	6589.7	6583.9	6560.6	6595.5	6502.6
17.5°	6763.8	6670.9	6711.6	6787.1	6758.0	6781.2	6885.8	6792.9	6816.1	6775.4	6746.4
20°	6967.0	6891.6	6897.4	6926.4	6926.4	6996.1	7036.7	7001.9	6978.6	6972.8	6984.5
22.5°	7193.5	7106.4	7112.2	7234.1	7274.7	7251.5	7222.5	7280.6	7292.2	7245.7	7298.0
25°	7361.8	7454.7	7483.8	7541.8	7454.7	7518.6	7495.4	7605.7	7675.4	7582.5	7646.3
27.5°	7803.1	7762.4	7837.9	7832.1	7901.8	7837.9	7878.6	7913.4	7942.4	7948.2	7919.2
30°	8197.9	8215.3	8139.8	8343.0	8180.5	8285.0	8354.6	8372.1	8406.9	8406.9	8319.8
32.5°	8615.9	8581.1	8703.0	8656.5	8627.5	8708.8	8633.3	8871.4	8732.0	8813.3	8714.6
35°	9086.2	9086.2	9132.6	9260.4	9086.2	9033.9	9173.3	9272.0	9272.0	9126.8	9161.7
37.5°	9614.5	9568.1	9626.1	9788.7	9655.2	9481.0	9736.4	9777.1	9748.0	9707.4	9637.7
40°	9986.1	9974.5	10090.6	10305.4	10113.8	10079.0	10125.4	10235.7	10270.6	10311.2	10218.3
42.5°	10613.1	10665.4	11002.1	10949.9	10793.1	10671.2	10659.6	11071.8	10973.1	10868.6	10816.3
45°	11542.1	11495.6	11669.8	11675.6	11472.4	11205.3	11263.4	11640.8	11809.1	11576.9	11664.0
47.5°	12279.4	12302.6	12424.5	12674.2	12203.9	11925.2	12140.1	12749.7	12697.4	12610.3	12691.6
50°	13266.4	13370.9	13754.1	13667.0	13249.0	12906.4	13376.7	13951.5	14015.4	13696.0	13638.0
52.5°	14630.8	14793.3	15002.4	15072.0	14671.4	14549.5	14578.5	15292.6	15135.9	14828.2	14630.8
55°	15826.8	15902.3	16285.4	16860.2	16831.2	16244.8	16581.5	16848.6	16210.0	15577.1	15629.4
57.5°	16337.7	16372.5	17440.8	18590.4	19275.5	19409.0	19025.8	18125.9	16604.8	15385.5	15310.1
60°	15066.2	15397.2	16686.1	19281.3	22410.6	23955.0	21406.2	18271.1	15681.6	14201.1	14090.8
62.5°	12041.4	12058.8	13974.7	17911.1	24361.4	28408.1	22317.7	16906.7	13220.0	11542.1	11100.8
64°	8575.3	8737.8	10938.2	15855.8	23955.0	30219.5	22207.4	15124.3	10897.6	8517.2	8209.5
65°	6154.2	6380.6	8505.6	13765.7	23002.8	30004.7	21876.5	13591.5	8813.3	6502.6	6189.1
67.5°	2264.3	2357.2	3338.4	6885.8	16517.7	25569.0	17336.3	7472.1	3872.5	2757.8	2479.1
70°	1050.9	1056.7	1236.6	2275.9	7222.5	17098.3	8273.4	2804.2	1457.3	1155.4	1074.1
72.5°	772.2	789.6	865.1	1050.9	2124.9	7239.9	2717.1	1149.6	853.5	754.8	737.3
75°	627.0	638.6	661.9	760.6	981.2	1939.2	1103.1	795.4	679.3	609.6	586.4
77.5°	481.9	481.9	534.1	580.6	650.3	905.7	731.5	632.8	551.6	481.9	464.5
80°	348.4	354.2	418.0	452.9	441.2	598.0	528.3	522.5	452.9	377.4	348.4
82.5°	203.2	220.6	301.9	325.1	313.5	354.2	383.2	406.4	354.2	261.3	238.0
85°	116.1	121.9	174.2	180.0	180.0	168.4	220.6	243.8	238.0	162.6	145.1
87.5°	34.8	34.8	46.4	46.4	52.3	58.1	87.1	104.5	116.1	81.3	75.5
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°	136°	145°	155°	165°	175°	180°
0°	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8
2.5°	6020.7	5933.6	5939.4	5962.6	5887.1	5916.2	6003.3	5939.4	5922.0	5887.1	5869.7
5°	5991.7	6084.5	6049.7	6061.3	6043.9	5962.6	5951.0	6003.3	6032.3	5980.0	6084.5
7.5°	6194.9	6154.2	6107.8	6125.2	6084.5	6154.2	6200.7	6096.2	6148.4	6119.4	6061.3
10°	6311.0	6235.5	6270.3	6258.7	6229.7	6299.4	6252.9	6241.3	6194.9	6131.0	6223.9
12.5°	6351.6	6438.7	6496.8	6398.1	6415.5	6380.6	6351.6	6351.6	6299.4	6281.9	6299.4
15°	6531.6	6607.1	6583.9	6659.3	6560.6	6595.5	6630.3	6543.2	6589.7	6461.9	6560.6
17.5°	6862.5	6798.7	6879.9	6781.2	6816.1	6885.8	6775.4	6775.4	6810.3	6740.6	6653.5
20°	7071.5	7042.5	7013.5	7019.3	6961.2	7025.1	6990.3	6972.8	6920.6	6943.8	6990.3
22.5°	7268.9	7228.3	7239.9	7257.3	7298.0	7268.9	7251.5	7268.9	7141.2	7257.3	7094.8
25°	7512.8	7623.1	7588.3	7663.7	7547.6	7623.1	7617.3	7507.0	7576.7	7530.2	7495.4
27.5°	7919.2	7861.1	7913.4	7820.5	7901.8	7907.6	7837.9	8023.7	7942.4	7930.8	7907.6
30°	8441.7	8401.1	8366.3	8314.0	8377.9	8325.6	8383.7	8401.1	8325.6	8267.6	8157.2
32.5°	8737.8	8848.1	8888.8	8761.0	8766.9	8795.9	8743.6	8691.4	8737.8	8755.2	8737.8
35°	9155.8	9260.4	9283.6	9184.9	9132.6	9277.8	9173.3	9347.4	9196.5	9202.3	9045.5
37.5°	9643.5	9672.6	9870.0	9759.7	9713.2	9643.5	9835.1	9811.9	9846.7	9568.1	9707.4
40°	10195.1	10299.6	10409.9	10131.2	10125.4	10189.3	10177.7	10311.2	10247.4	10206.7	10108.0
42.5°	10798.9	11019.5	11036.9	10851.2	10735.0	10723.4	10781.5	11077.6	11083.4	10816.3	10700.2
45°	11600.1	11844.0	11780.1	11420.1	11292.4	11275.0	11559.5	11687.2	11797.5	11693.0	11594.3
47.5°	12598.7	12761.3	12714.8	12383.9	11971.7	12087.8	12366.5	12767.1	12651.0	12511.6	12395.5
50°	13667.0	13858.6	13759.9	13429.0	13034.2	13034.2	13376.7	13887.6	13852.8	13579.9	13475.4
52.5°	14851.4	15130.1	15356.5	14886.2	14555.3	14607.6	15147.5	15333.3	15246.2	15054.6	14967.5
55°	15733.9	16268.0	16732.5	16755.7	16773.1	16767.3	16906.7	17092.5	16471.2	16163.5	15850.0
57.5°	15519.1	16529.3	18120.1	19200.0	19519.3	19687.7	19641.2	18782.0	17313.1	16302.9	16407.4
60°	13986.3	15635.2	18201.4	21667.5	23989.8	23757.6	22909.9	19513.5	16848.6	15141.7	14926.9
62.5°	11158.9	13144.5	16837.0	22364.2	28762.3	28692.6	24256.9	17824.0	14038.6	11878.8	11745.3
64°	8406.9	10497.0	15019.8	22184.2	30434.3	30504.0	23914.4	15745.5	10984.7	8406.9	8203.7
65°	6432.9	8372.1	13237.4	21812.6	30074.4	30115.0	22962.2	13597.3	8348.8	5968.4	5747.8
67.5°	2560.4	3564.8	7181.9	16540.9	25824.5	25714.2	16384.1	6578.0	3193.2	2078.5	2037.9
70°	1091.5	1358.6	2519.7	7837.9	17289.9	16970.5	7054.1	2136.6	1184.4	992.8	987.0
72.5°	749.0	830.2	1079.9	2421.0	7187.7	7019.3	2008.8	992.8	807.0	743.2	743.2
75°	603.8	661.9	783.8	1016.0	1904.3	1834.7	946.4	731.5	644.5	598.0	592.2
77.5°	470.3	528.3	615.4	702.5	870.9	865.1	632.8	551.6	499.3	464.5	452.9
80°	371.6	429.6	487.7	499.3	569.0	557.4	429.6	435.4	406.4	336.7	330.9
82.5°	255.5	348.4	389.0	354.2	336.7	336.7	307.7	307.7	284.5	209.0	191.6
85°	156.8	232.2	243.8	209.0	156.8	156.8	168.4	162.6	151.0	110.3	104.5
87.5°	81.3	110.3	98.7	81.3	52.3	52.3	46.4	34.8	34.8	29.0	29.0
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)