

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: P478535

Luminaire Tested: **IFLD-L-SA7D-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478535
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

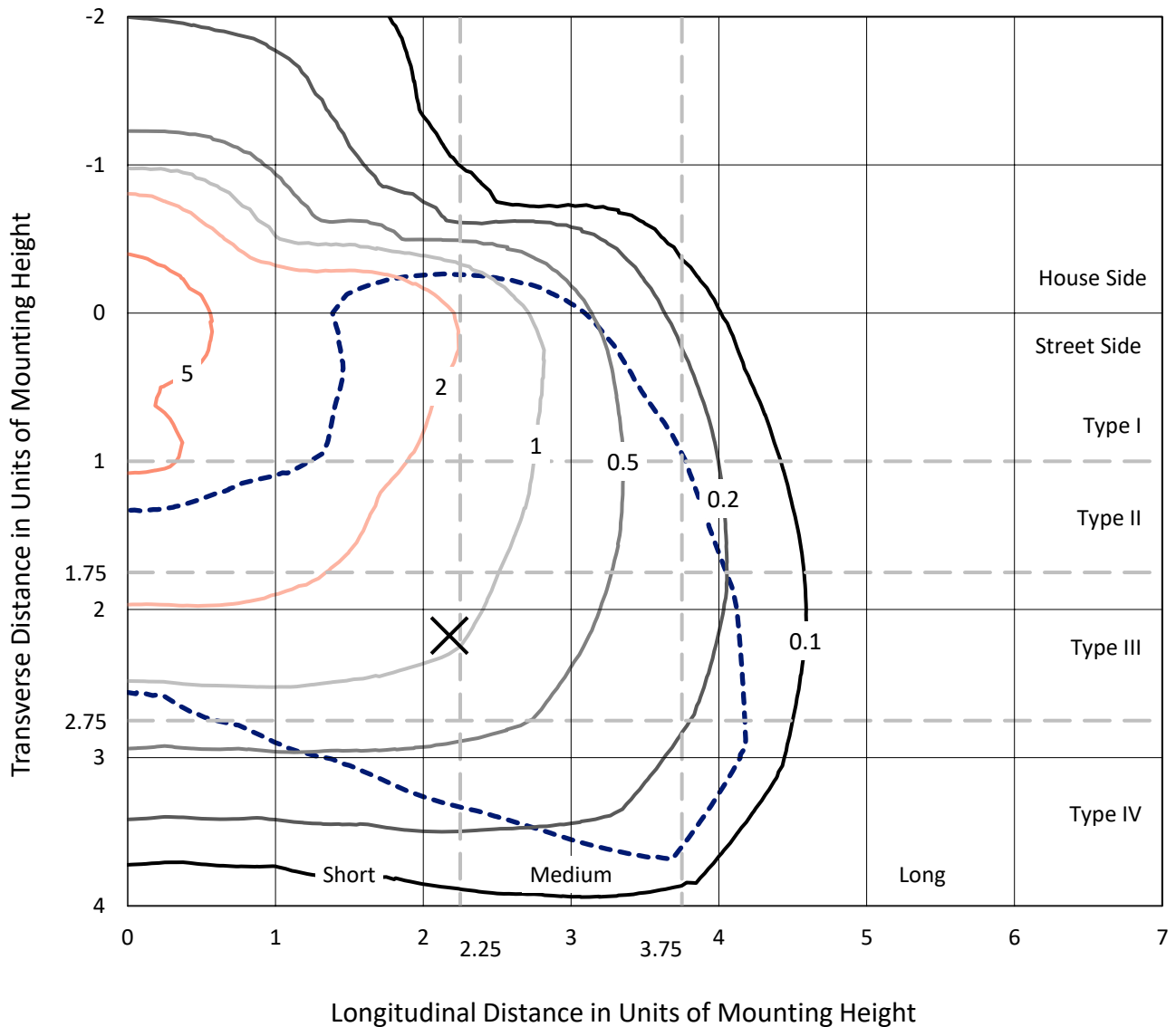
Lumens per Lamp: N/A
Luminaire Lumens: 48629.4 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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

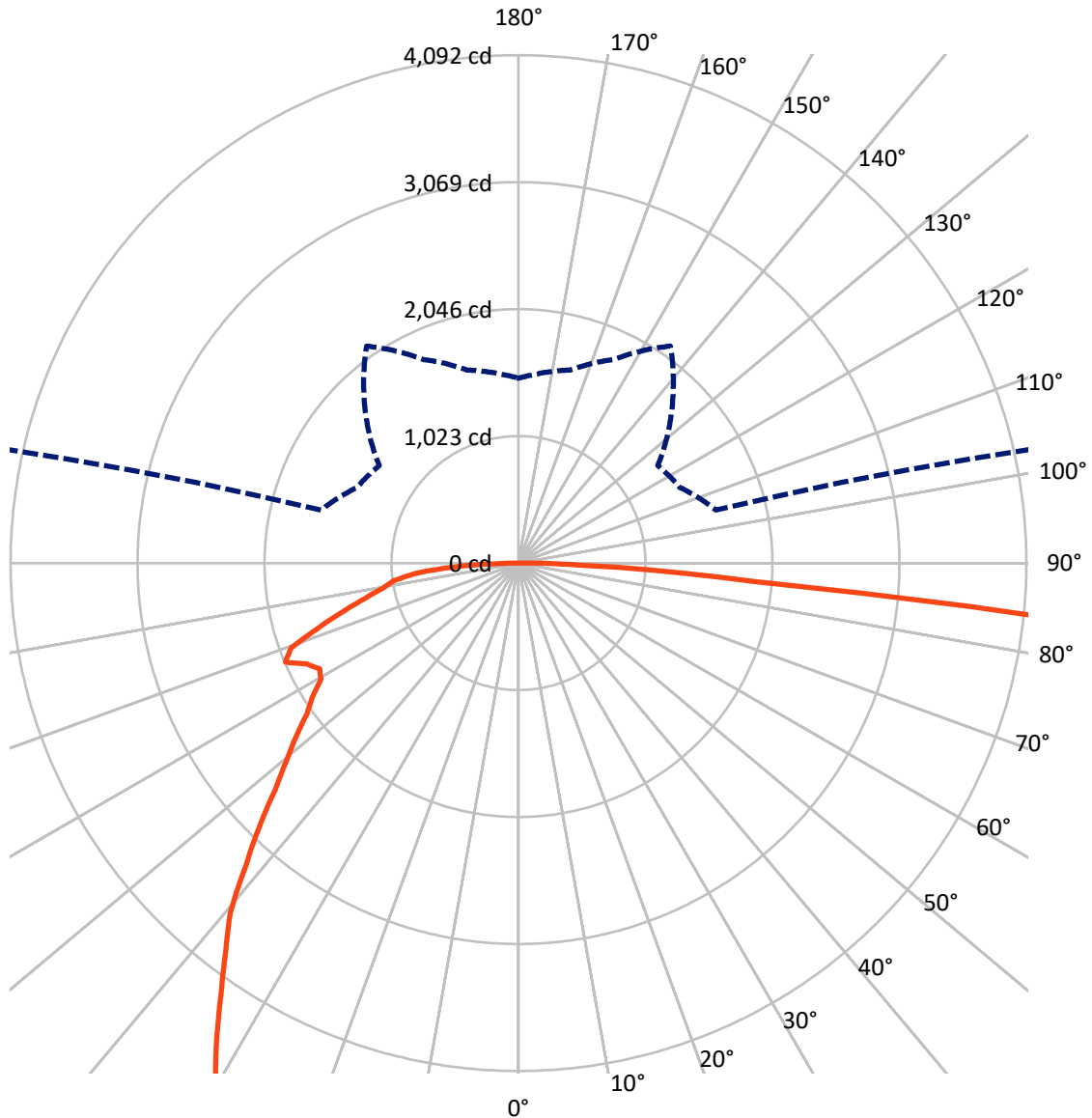
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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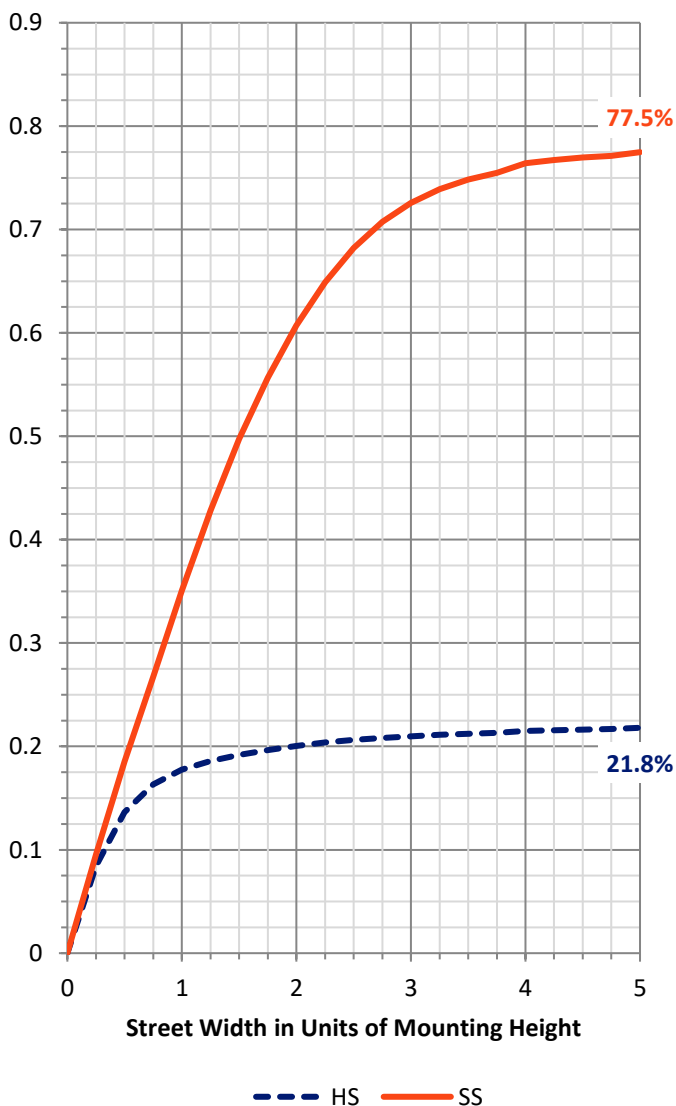
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10825.2	0.0	10825.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	37804.2	0.0	37804.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	48629.4	0.0	48629.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.5	1.1
10°-20°	1705.0	3.5
20°-30°	2879.2	5.9
30°-40°	3984.3	8.2
40°-50°	5699.2	11.7
50°-60°	9192.2	18.9
60°-70°	13557.2	27.9
70°-80°	9844.9	20.2
80°-90°	1255.0	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°	48629.4	100.0
0°-180°	48629.4	100.0

Coefficient of Utilization

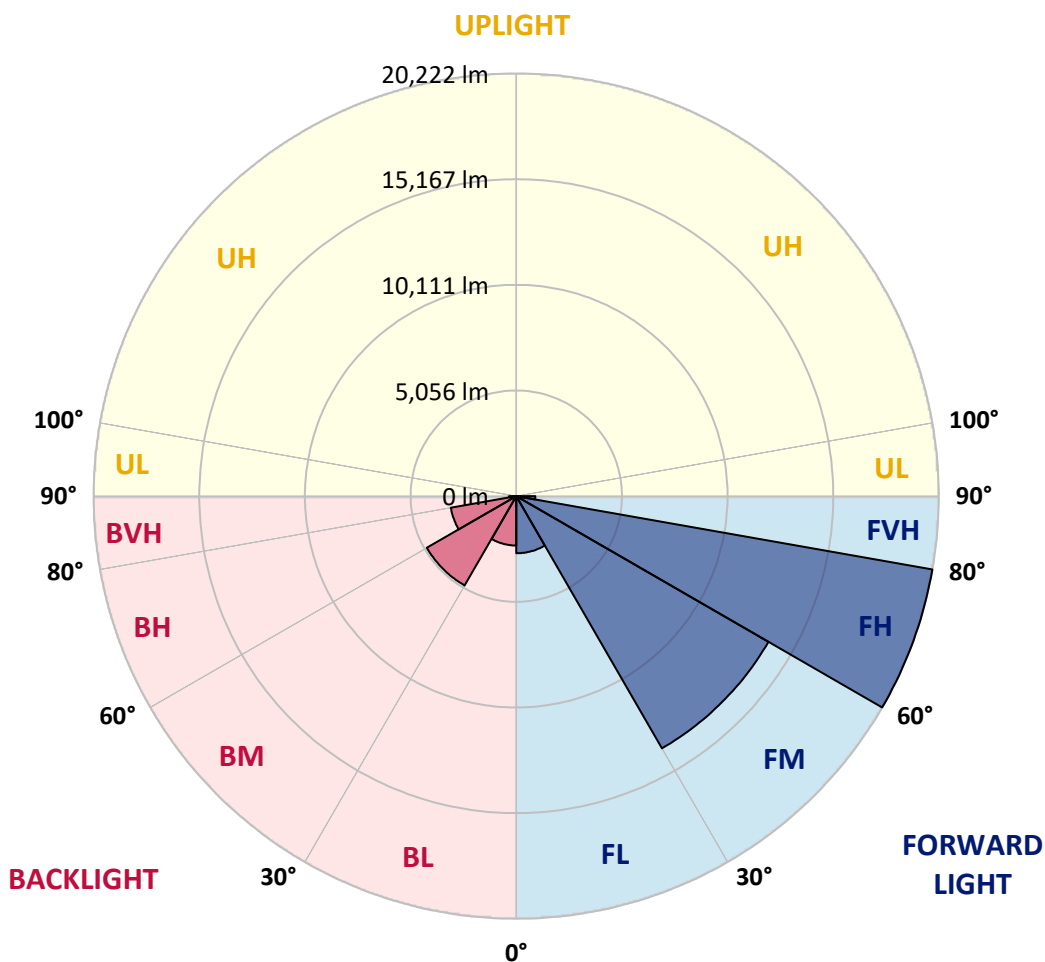


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2733.0	5.6			
FM (30°-60°)	13935.5	28.7			
FH (60°-80°)	20222.3	41.6			G5
FVH (80°-90°)	913.4	1.9			G5
BL (0°-30°)	2363.6	4.9	B3/2500		
BM (30°-60°)	4940.3	10.2	B3/5000		
BH (60°-80°)	3179.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	341.5	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0
2.5°	5275.4	5306.9	5275.4	5270.1	5217.7	5181.0	5212.5	5165.3	5112.8	5091.9	5044.7
5°	5757.8	5763.1	5705.4	5710.6	5600.5	5485.1	5506.1	5364.5	5212.5	5154.8	5060.4
7.5°	6250.8	6193.1	6109.2	6083.0	5909.9	5784.1	5768.3	5642.5	5406.5	5275.4	5144.3
10°	6570.6	6591.6	6455.3	6339.9	6193.1	6041.0	6035.8	5799.8	5663.4	5469.4	5301.6
12.5°	6853.8	6859.1	6743.7	6560.2	6376.6	6187.8	6214.1	6109.2	5878.4	5694.9	5527.1
15°	7074.1	7042.6	6916.7	6748.9	6554.9	6408.1	6392.3	6303.2	6109.2	5957.1	5679.2
17.5°	7137.0	7121.3	6995.4	6817.1	6628.3	6518.2	6560.2	6413.3	6334.7	6198.3	5930.9
20°	7016.4	6979.7	6958.7	6759.4	6623.1	6612.6	6575.9	6607.3	6476.2	6350.4	6156.4
22.5°	6796.1	6780.4	6769.9	6612.6	6549.7	6596.9	6659.8	6707.0	6686.0	6565.4	6345.2
25°	6570.6	6644.1	6575.9	6502.5	6591.6	6712.2	6696.5	6848.6	6848.6	6811.9	6628.3
27.5°	6728.0	6680.8	6628.3	6591.6	6623.1	6811.9	6801.4	6984.9	7053.1	6984.9	6775.2
30°	7121.3	7074.1	6922.0	6759.4	6717.5	6922.0	6974.4	7137.0	7168.4	7000.6	6822.3
32.5°	7860.6	7834.4	7593.2	7116.0	6859.1	6974.4	7000.6	7184.2	7158.0	7053.1	6979.7
35°	8956.6	8867.5	8531.9	7724.3	7158.0	7042.6	6974.4	7121.3	7220.9	7168.4	7100.3
37.5°	10157.5	10057.9	9643.6	8621.0	7698.1	7226.1	7173.7	7294.3	7409.7	7383.4	7241.9
40°	11305.9	11305.9	10933.6	9743.2	8500.4	7671.9	7682.4	7546.0	7650.9	7603.7	7629.9
42.5°	12438.6	12396.6	12244.6	11059.4	9360.4	8416.5	8248.7	7907.8	8096.6	8080.9	8117.6
45°	13587.0	13555.6	13513.6	12286.5	10592.7	9423.3	9334.2	8720.7	8893.7	8820.3	8977.6
47.5°	14504.7	14541.4	14541.4	13655.2	11909.0	10765.8	10634.7	9664.6	9994.9	10031.6	10068.3
50°	15286.0	15301.8	15286.0	14960.9	13377.3	12302.3	12034.8	11049.0	11379.3	11667.7	12003.3
52.5°	16366.3	16387.3	16313.9	16188.0	15369.9	13917.4	13618.5	12522.5	13199.0	13503.1	14106.2
55°	17698.3	17540.9	17404.6	17499.0	17284.0	15695.1	15385.7	14043.2	15060.6	15464.3	16670.4
57.5°	17944.7	18081.1	18427.2	19177.0	19486.4	17425.6	17247.3	15910.1	17163.4	17514.7	19528.4
60°	18815.2	18589.7	19439.2	21064.9	21411.0	19680.5	19496.9	17955.2	19255.7	19622.8	22166.1
62.5°	19386.8	19376.3	20634.9	22564.6	23351.2	22019.2	21646.9	20613.9	21515.8	21872.4	25039.8
65°	19219.0	19371.1	21605.0	23445.6	24971.6	24677.9	24462.9	22900.2	24090.6	24059.1	26911.8
67.5°	17687.8	18117.8	20991.4	24080.1	27383.8	27918.7	27850.5	26114.8	26182.9	25516.9	27745.6
70°	15564.0	15417.1	18395.7	23419.4	28589.9	31762.5	31746.7	28506.0	28065.5	25836.8	25354.4
72°	11956.2	11793.6	14242.5	20110.5	27955.4	33298.9	33770.9	30163.1	28044.5	24510.1	20944.2
72.5°	10854.9	10713.3	13151.8	18930.6	27252.7	33697.5	33477.2	30226.0	27824.3	23886.1	19565.1
75°	4997.5	4834.9	6570.6	11589.1	21258.9	29858.9	30608.8	28285.7	24300.4	19014.5	11720.2
77.5°	1489.3	1442.1	2113.3	4677.6	12354.7	21998.3	22286.7	21342.8	16964.1	10414.4	4347.2
80°	828.5	833.8	1090.7	1751.5	5432.7	12716.5	13754.8	13183.2	8322.1	3440.0	1447.3
82.5°	461.5	487.7	681.7	1038.3	2496.1	5836.5	6282.2	6056.7	3010.0	1615.1	791.8
85°	241.2	251.7	356.6	555.9	1415.9	1845.9	1898.3	2034.6	1562.7	1101.2	424.8
87.5°	94.4	94.4	131.1	230.7	524.4	571.6	513.9	624.0	896.7	713.2	209.8
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°	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0	5008.0
2.5°	5086.6	5044.7	5039.4	4971.2	4992.2	4934.5	4939.8	4929.3	4934.5	4924.0	4897.8
5°	5060.4	5028.9	4939.8	4997.5	4945.0	5018.4	5076.1	5055.1	5070.9	5065.6	5070.9
7.5°	5097.1	5055.1	5044.7	5013.2	5060.4	5091.9	5139.0	5270.1	5259.7	5275.4	5306.9
10°	5207.2	5160.0	5128.6	5175.8	5149.5	5249.2	5301.6	5369.8	5490.4	5495.6	5432.7
12.5°	5422.2	5390.8	5327.8	5338.3	5427.5	5458.9	5490.4	5532.3	5611.0	5595.3	5653.0
15°	5668.7	5600.5	5563.8	5553.3	5574.3	5611.0	5605.8	5647.7	5689.7	5726.4	5710.6
17.5°	5847.0	5757.8	5768.3	5820.8	5815.5	5805.0	5736.9	5715.9	5736.9	5757.8	5747.3
20°	6030.5	6041.0	5962.3	5915.1	5894.2	5789.3	5736.9	5673.9	5611.0	5642.5	5689.7
22.5°	6261.2	6214.1	6098.7	5957.1	5852.2	5789.3	5626.7	5516.6	5516.6	5548.1	5532.3
25°	6523.4	6423.8	6224.5	5967.6	5836.5	5569.1	5453.7	5438.0	5396.0	5443.2	5464.2
27.5°	6728.0	6638.8	6366.1	5930.9	5569.1	5354.0	5285.9	5264.9	5333.1	5338.3	5422.2
30°	6811.9	6785.6	6387.1	5836.5	5296.4	4950.3	4908.3	5002.7	5076.1	5186.2	5191.5
32.5°	6922.0	6932.5	6418.6	5616.2	4939.8	4593.7	4530.8	4646.1	4855.9	4945.0	5013.2
35°	7105.5	7158.0	6392.3	5343.6	4562.2	4231.8	4221.4	4252.8	4457.3	4614.7	4703.8
37.5°	7425.4	7414.9	6387.1	5018.4	4263.3	3917.2	3833.3	3843.8	3980.1	4111.2	4095.5
40°	7855.4	7813.5	6371.4	4593.7	3875.3	3649.8	3508.2	3455.7	3445.3	3408.6	3419.0
42.5°	8442.7	8358.8	6366.1	4163.7	3523.9	3282.7	3183.1	3046.7	2947.1	2758.3	2768.8
45°	9260.8	9113.9	6229.8	3759.9	3177.8	2978.6	2826.5	2726.8	2511.8	2275.9	2275.9
47.5°	10524.6	10047.4	6235.0	3314.2	2842.2	2679.6	2574.8	2401.7	2171.0	1982.2	1961.2
50°	12386.2	11295.4	6056.7	2962.8	2569.5	2459.4	2349.3	2150.0	1929.8	1798.7	1814.4
52.5°	14787.9	13157.0	6051.5	2648.2	2354.5	2275.9	2155.3	1977.0	1814.4	1730.5	1699.0
55°	17651.1	15621.7	6240.3	2391.2	2134.3	2092.3	2039.9	1893.1	1735.7	1662.3	1657.1
57.5°	20582.4	18028.6	6544.4	2207.7	1945.5	1977.0	1940.3	1824.9	1699.0	1615.1	1604.6
60°	23188.6	19937.4	5930.9	1987.4	1777.7	1845.9	1898.3	1798.7	1730.5	1725.3	1688.5
62.5°	25155.1	20755.5	4509.8	1819.6	1688.5	1814.4	1956.0	2018.9	1987.4	2029.4	2034.6
65°	25873.5	20262.5	3104.4	1730.5	1620.4	1887.8	2202.4	2181.5	1997.9	1919.3	1961.2
67.5°	24866.7	18264.6	2302.1	1625.6	1573.2	2039.9	2344.0	2081.8	1803.9	1793.4	1762.0
70°	21384.7	15480.1	1877.3	1515.5	1494.5	1956.0	2281.1	1929.8	1699.0	1630.9	1599.4
72°	17037.5	12055.8	1646.6	1436.8	1368.7	1746.2	2134.3	1809.2	1609.9	1526.0	1489.3
72.5°	15553.5	11174.8	1615.1	1400.1	1342.4	1699.0	2060.9	1772.4	1588.9	1515.5	1457.8
75°	8531.9	5721.1	1421.1	1284.8	1132.7	1468.3	1908.8	1662.3	1499.8	1394.9	1384.4
77.5°	3172.6	2218.2	1227.1	1137.9	980.6	1269.0	1735.7	1578.4	1363.4	1232.3	1206.1
80°	1216.6	1169.4	1001.6	959.6	823.3	1111.7	1599.4	1415.9	1158.9	1027.8	985.9
82.5°	739.4	681.7	760.4	749.9	629.3	1012.1	1505.0	1326.7	1027.8	833.8	807.6
85°	403.8	403.8	529.6	508.7	440.5	807.6	1137.9	881.0	650.2	534.9	545.4
87.5°	178.3	209.8	283.2	267.4	241.2	456.2	555.9	466.7	325.1	220.2	236.0
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)