

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: P478613

Luminaire Tested: **IFLD-L-SA7D-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478613
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

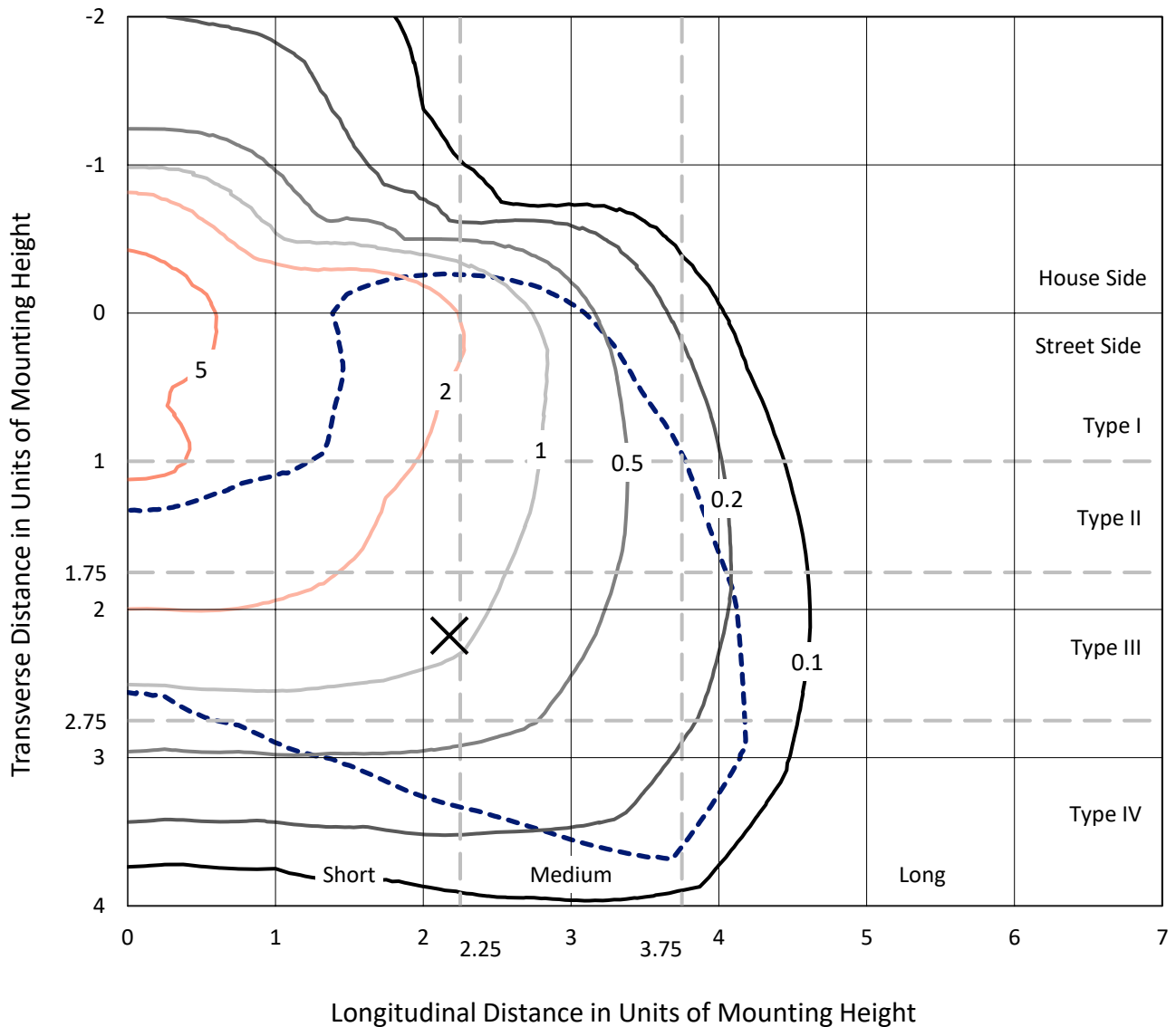
Lumens per Lamp: N/A
Luminaire Lumens: 50434 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

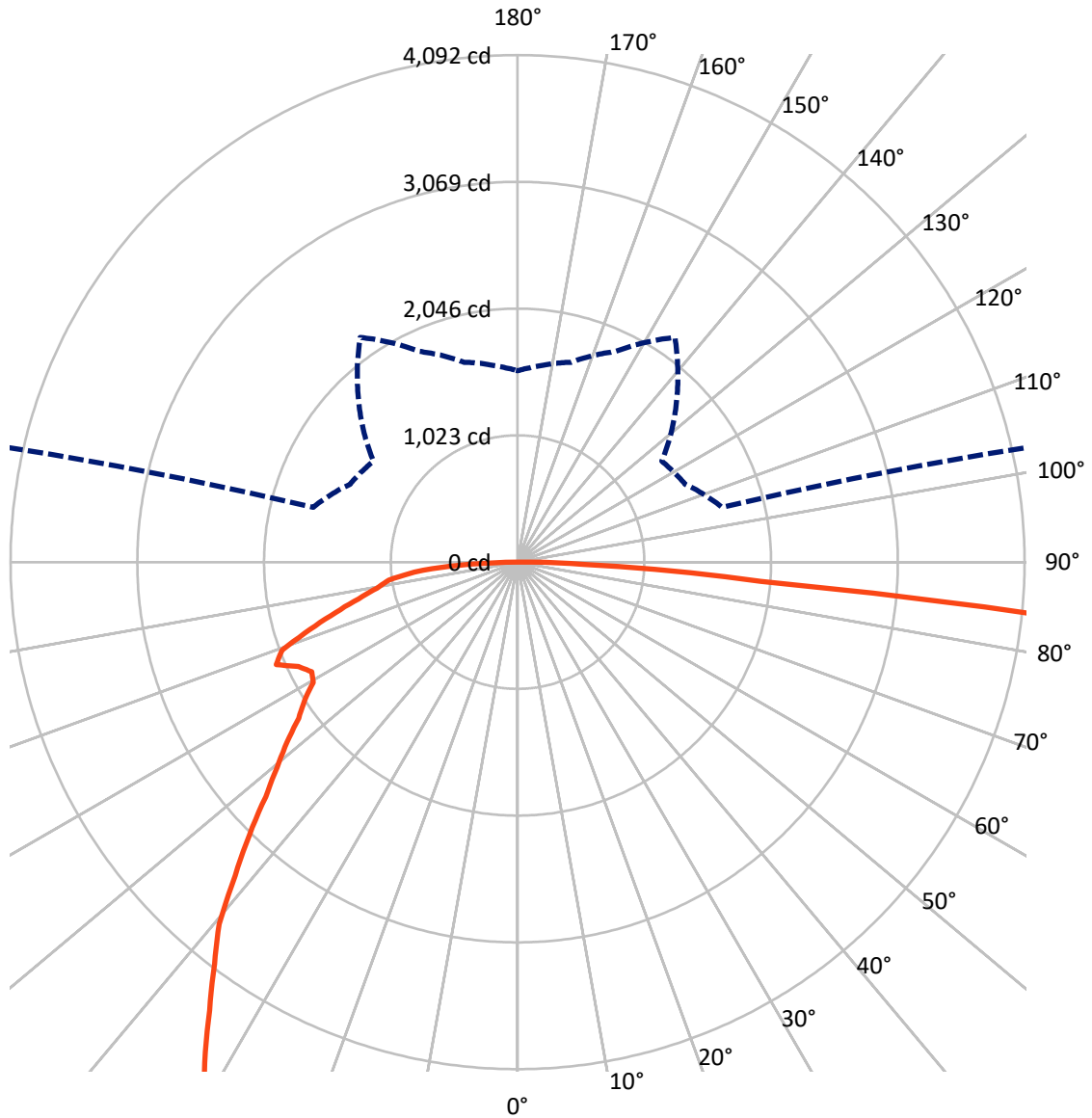
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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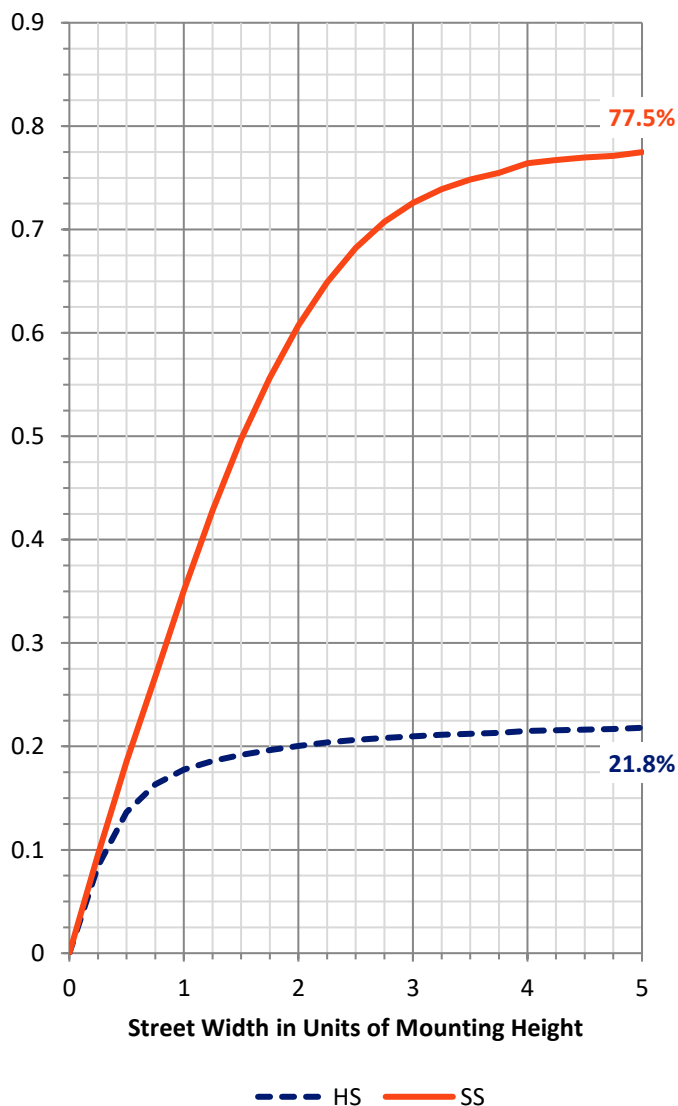
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11226.9	0.0	11226.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	39207.1	0.0	39207.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	50434.0	0.0	50434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.5	1.1
10°-20°	1768.2	3.5
20°-30°	2986.0	5.9
30°-40°	4132.2	8.2
40°-50°	5910.7	11.7
50°-60°	9533.3	18.9
60°-70°	14060.3	27.9
70°-80°	10210.2	20.2
80°-90°	1301.5	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°	50434.0	100.0
0°-180°	50434.0	100.0

Coefficient of Utilization



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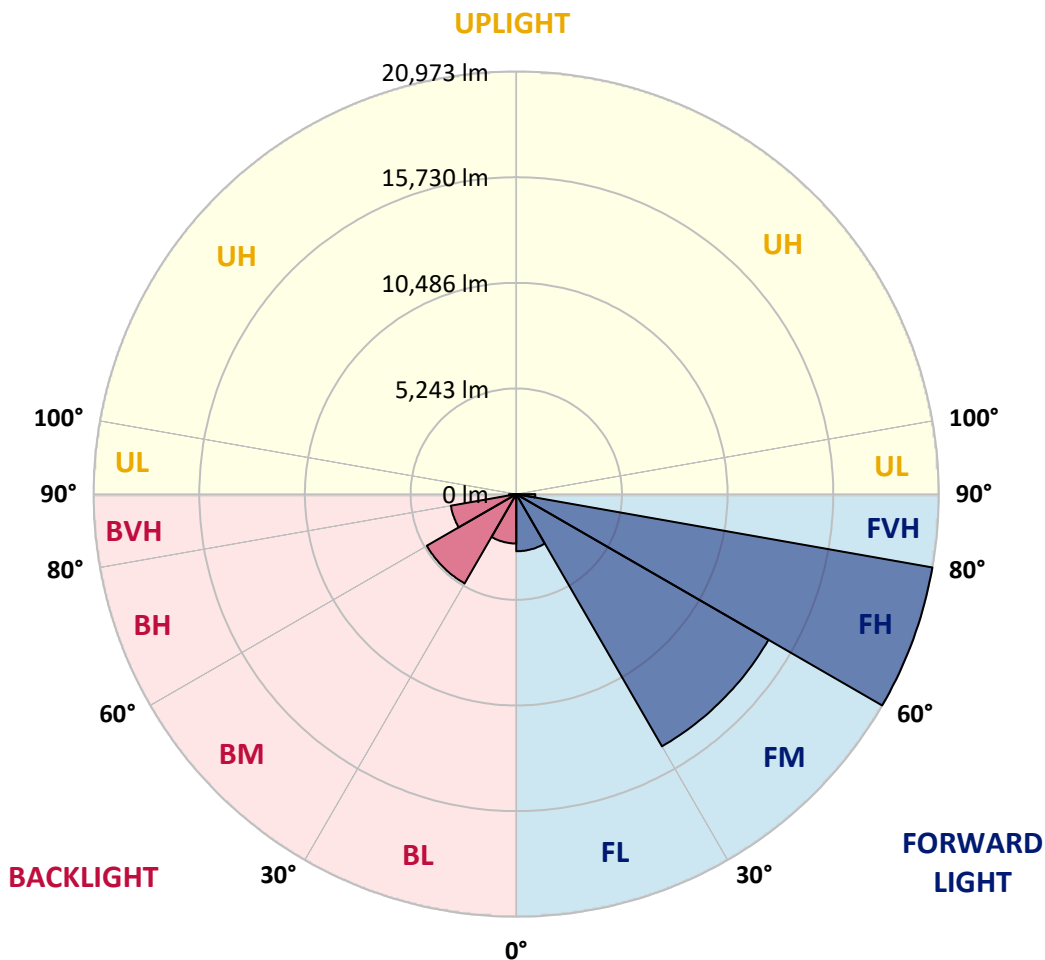
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2834.4	5.6			
FM (30°-60°)	14452.6	28.7			
FH (60°-80°)	20972.7	41.6			G5
FVH (80°-90°)	947.3	1.9			G5
BL (0°-30°)	2451.3	4.9	B3/2500		
BM (30°-60°)	5123.6	10.2	B4/8500		
BH (60°-80°)	3297.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	354.2	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°	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8
2.5°	5471.2	5503.8	5471.2	5465.7	5411.3	5373.3	5405.9	5356.9	5302.6	5280.8	5231.9
5°	5971.5	5976.9	5917.1	5922.5	5808.3	5688.7	5710.4	5563.6	5405.9	5346.1	5248.2
7.5°	6482.7	6422.9	6335.9	6308.7	6129.2	5998.7	5982.4	5851.8	5607.1	5471.2	5335.2
10°	6814.5	6836.2	6694.8	6575.2	6422.9	6265.2	6259.7	6015.0	5873.6	5672.4	5498.3
12.5°	7108.1	7113.6	6993.9	6803.6	6613.2	6417.5	6444.6	6335.9	6096.6	5906.2	5732.2
15°	7336.6	7303.9	7173.4	6999.4	6798.2	6645.9	6629.6	6537.1	6335.9	6178.2	5889.9
17.5°	7401.8	7385.5	7255.0	7070.1	6874.3	6760.1	6803.6	6651.3	6569.7	6428.3	6151.0
20°	7276.7	7238.7	7216.9	7010.3	6868.9	6858.0	6819.9	6852.5	6716.6	6586.0	6384.8
22.5°	7048.3	7032.0	7021.1	6858.0	6792.7	6841.7	6906.9	6955.9	6934.1	6809.0	6580.6
25°	6814.5	6890.6	6819.9	6743.8	6836.2	6961.3	6945.0	7102.7	7102.7	7064.6	6874.3
27.5°	6977.6	6928.7	6874.3	6836.2	6868.9	7064.6	7053.8	7244.1	7314.8	7244.1	7026.6
30°	7385.5	7336.6	7178.8	7010.3	6966.7	7178.8	7233.2	7401.8	7434.5	7260.4	7075.5
32.5°	8152.3	8125.1	7875.0	7380.1	7113.6	7233.2	7260.4	7450.8	7423.6	7314.8	7238.7
35°	9289.0	9196.5	8848.5	8010.9	7423.6	7303.9	7233.2	7385.5	7488.8	7434.5	7363.8
37.5°	10534.4	10431.1	10001.4	8940.9	7983.7	7494.3	7439.9	7565.0	7684.6	7657.4	7510.6
40°	11725.4	11725.4	11339.3	10104.8	8815.8	7956.6	7967.4	7826.0	7934.8	7885.9	7913.0
42.5°	12900.2	12856.7	12698.9	11469.8	9707.8	8728.8	8554.8	8201.3	8397.1	8380.8	8418.8
45°	14091.2	14058.6	14015.1	12742.5	10985.8	9773.0	9680.6	9044.3	9223.7	9147.6	9310.7
47.5°	15042.9	15081.0	15081.0	14161.9	12350.9	11165.3	11029.3	10023.2	10365.8	10403.9	10442.0
50°	15853.3	15869.6	15853.3	15516.1	13873.7	12758.8	12481.4	11459.0	11801.6	12100.7	12448.8
52.5°	16973.6	16995.4	16919.2	16788.7	15940.3	14433.8	14123.8	12987.2	13688.8	14004.2	14629.6
55°	18355.0	18191.9	18050.4	18148.3	17925.4	16277.5	15956.6	14564.4	15619.4	16038.2	17289.1
57.5°	18610.6	18752.0	19111.0	19888.7	20209.5	18072.2	17887.3	16500.5	17800.3	18164.7	20253.0
60°	19513.4	19279.6	20160.6	21846.5	22205.5	20410.8	20220.4	18621.5	19970.2	20350.9	22988.6
62.5°	20106.2	20095.3	21400.6	23402.0	24217.7	22836.3	22450.2	21378.8	22314.2	22684.1	25968.9
65°	19932.2	20089.9	22406.7	24315.6	25898.2	25593.7	25370.7	23750.0	24984.6	24951.9	27910.5
67.5°	18344.1	18790.1	21770.4	24973.7	28400.0	28954.7	28884.0	27083.8	27154.5	26463.8	28775.2
70°	16141.5	15989.2	19078.3	24288.4	29650.8	32941.1	32924.8	29563.8	29107.0	26795.6	26295.2
72°	12399.8	12231.2	14771.0	20856.7	28992.8	34534.6	35024.1	31282.4	29085.2	25419.6	21721.5
72.5°	11257.7	11110.9	13639.8	19633.1	28264.0	34947.9	34719.5	31347.6	28856.8	24772.5	20291.1
75°	5182.9	5014.3	6814.5	12019.1	22047.8	30966.9	31744.6	29335.4	25202.1	19720.1	12155.1
77.5°	1544.5	1495.6	2191.7	4851.2	12813.2	22814.6	23113.7	22134.8	17593.6	10800.9	4508.5
80°	859.3	864.7	1131.2	1816.5	5634.3	13188.4	14265.2	13672.4	8630.9	3567.7	1501.0
82.5°	478.6	505.8	707.0	1076.8	2588.7	6053.1	6515.3	6281.5	3121.7	1675.1	821.2
85°	250.2	261.0	369.8	576.5	1468.4	1914.4	1968.7	2110.1	1620.7	1142.1	440.5
87.5°	97.9	97.9	136.0	239.3	543.9	592.8	533.0	647.2	930.0	739.6	217.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8	5193.8
2.5°	5275.4	5231.9	5226.4	5155.7	5177.5	5117.6	5123.1	5112.2	5117.6	5106.8	5079.6
5°	5248.2	5215.5	5123.1	5182.9	5128.5	5204.7	5264.5	5242.7	5259.0	5253.6	5259.0
7.5°	5286.2	5242.7	5231.9	5199.2	5248.2	5280.8	5329.7	5465.7	5454.8	5471.2	5503.8
10°	5400.5	5351.5	5318.9	5367.8	5340.6	5444.0	5498.3	5569.0	5694.1	5699.6	5634.3
12.5°	5623.4	5590.8	5525.5	5536.4	5628.9	5661.5	5694.1	5737.6	5819.2	5802.9	5862.7
15°	5879.0	5808.3	5770.3	5759.4	5781.1	5819.2	5813.8	5857.3	5900.8	5938.9	5922.5
17.5°	6064.0	5971.5	5982.4	6036.8	6031.3	6020.4	5949.7	5928.0	5949.7	5971.5	5960.6
20°	6254.3	6265.2	6183.6	6134.7	6112.9	6004.1	5949.7	5884.5	5819.2	5851.8	5900.8
22.5°	6493.6	6444.6	6325.0	6178.2	6069.4	6004.1	5835.5	5721.3	5721.3	5754.0	5737.6
25°	6765.5	6662.2	6455.5	6189.0	6053.1	5775.7	5656.1	5639.7	5596.2	5645.2	5666.9
27.5°	6977.6	6885.2	6602.4	6151.0	5775.7	5552.7	5482.0	5460.3	5531.0	5536.4	5623.4
30°	7064.6	7037.4	6624.1	6053.1	5492.9	5134.0	5090.5	5188.3	5264.5	5378.7	5384.1
32.5°	7178.8	7189.7	6656.7	5824.7	5123.1	4764.1	4698.9	4818.5	5036.1	5128.5	5199.2
35°	7369.2	7423.6	6629.6	5541.9	4731.5	4388.9	4378.0	4410.6	4622.7	4785.9	4878.4
37.5°	7700.9	7690.1	6624.1	5204.7	4421.5	4062.6	3975.6	3986.4	4127.8	4263.8	4247.5
40°	8146.9	8103.4	6607.8	4764.1	4019.1	3785.2	3638.4	3584.0	3573.1	3535.0	3545.9
42.5°	8756.0	8669.0	6602.4	4318.2	3654.7	3404.5	3301.2	3159.8	3056.4	2860.7	2871.5
45°	9604.4	9452.1	6461.0	3899.4	3295.7	3089.1	2931.4	2828.0	2605.1	2360.3	2360.3
47.5°	10915.1	10420.2	6466.4	3437.1	2947.7	2779.1	2670.3	2490.8	2251.5	2055.8	2034.0
50°	12845.8	11714.6	6281.5	3072.8	2664.9	2550.7	2436.5	2229.8	2001.4	1865.4	1881.7
52.5°	15336.6	13645.2	6276.1	2746.5	2441.9	2360.3	2235.2	2050.3	1881.7	1794.7	1762.1
55°	18306.1	16201.4	6471.8	2480.0	2213.5	2170.0	2115.6	1963.3	1800.2	1724.0	1718.6
57.5°	21346.2	18697.6	6787.3	2289.6	2017.7	2050.3	2012.3	1892.6	1762.1	1675.1	1664.2
60°	24049.1	20677.3	6151.0	2061.2	1843.7	1914.4	1968.7	1865.4	1794.7	1789.3	1751.2
62.5°	26088.6	21525.7	4677.1	1887.2	1751.2	1881.7	2028.6	2093.8	2061.2	2104.7	2110.1
65°	26833.7	21014.4	3219.6	1794.7	1680.5	1957.9	2284.2	2262.4	2072.1	1990.5	2034.0
67.5°	25789.5	18942.4	2387.5	1685.9	1631.6	2115.6	2431.0	2159.1	1870.9	1860.0	1827.3
70°	22178.3	16054.5	1947.0	1571.7	1550.0	2028.6	2365.8	2001.4	1762.1	1691.4	1658.7
72°	17669.8	12503.2	1707.7	1490.2	1419.5	1811.0	2213.5	1876.3	1669.6	1582.6	1544.5
72.5°	16130.7	11589.5	1675.1	1452.1	1392.3	1762.1	2137.3	1838.2	1647.9	1571.7	1511.9
75°	8848.5	5933.4	1473.8	1332.4	1174.7	1522.8	1979.6	1724.0	1555.4	1446.6	1435.8
77.5°	3290.3	2300.5	1272.6	1180.2	1017.0	1316.1	1800.2	1637.0	1414.0	1278.1	1250.9
80°	1261.7	1212.8	1038.8	995.2	853.8	1153.0	1658.7	1468.4	1201.9	1065.9	1022.4
82.5°	766.8	707.0	788.6	777.7	652.6	1049.6	1560.9	1375.9	1065.9	864.7	837.5
85°	418.8	418.8	549.3	527.5	456.8	837.5	1180.2	913.7	674.4	554.7	565.6
87.5°	184.9	217.5	293.7	277.4	250.2	473.2	576.5	484.0	337.2	228.4	244.7
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)