

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: P478110

Luminaire Tested: **IFLD-L-SA8C-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478110
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-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

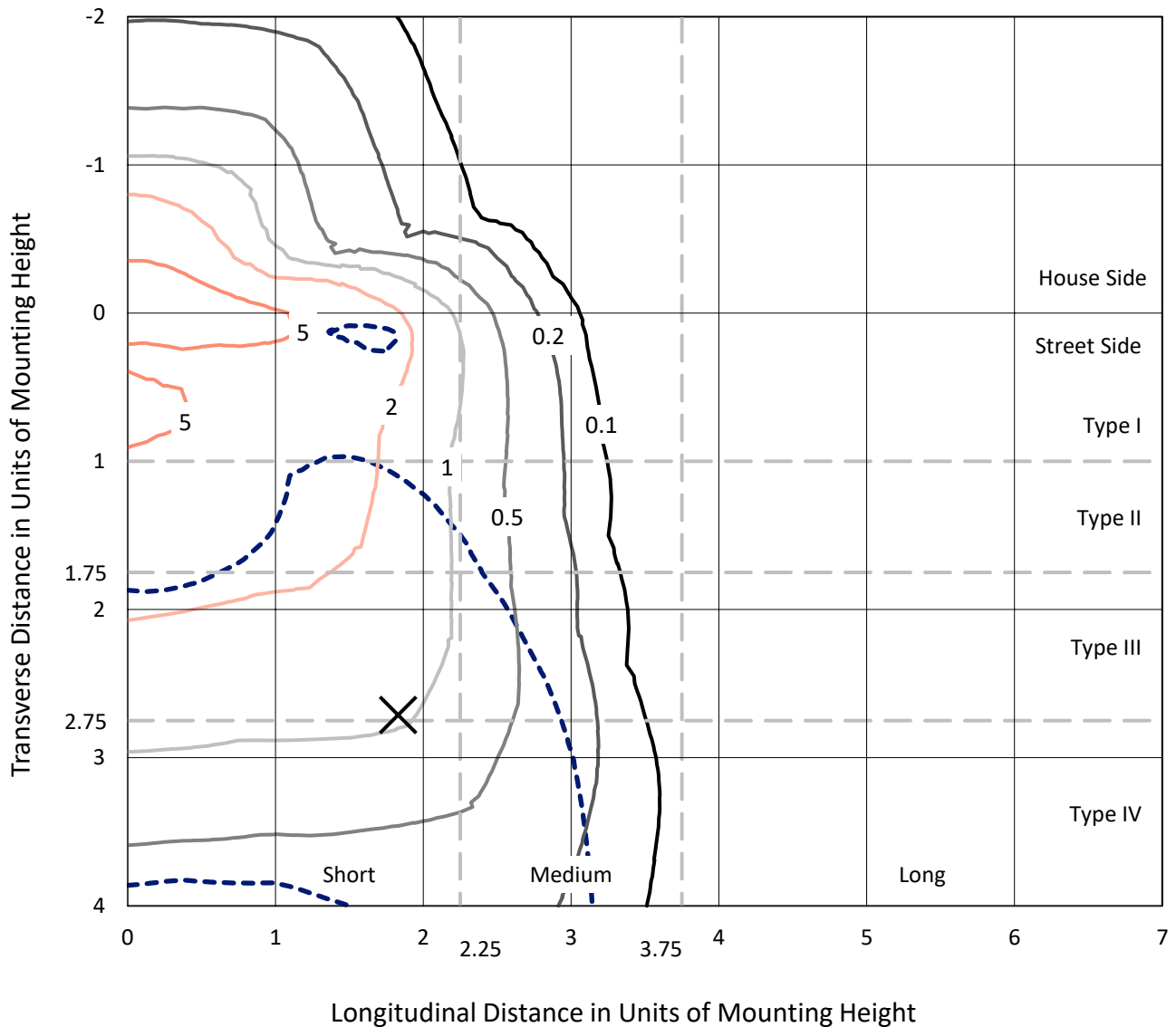
Lumens per Lamp: N/A
Luminaire Lumens: 47264.5 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

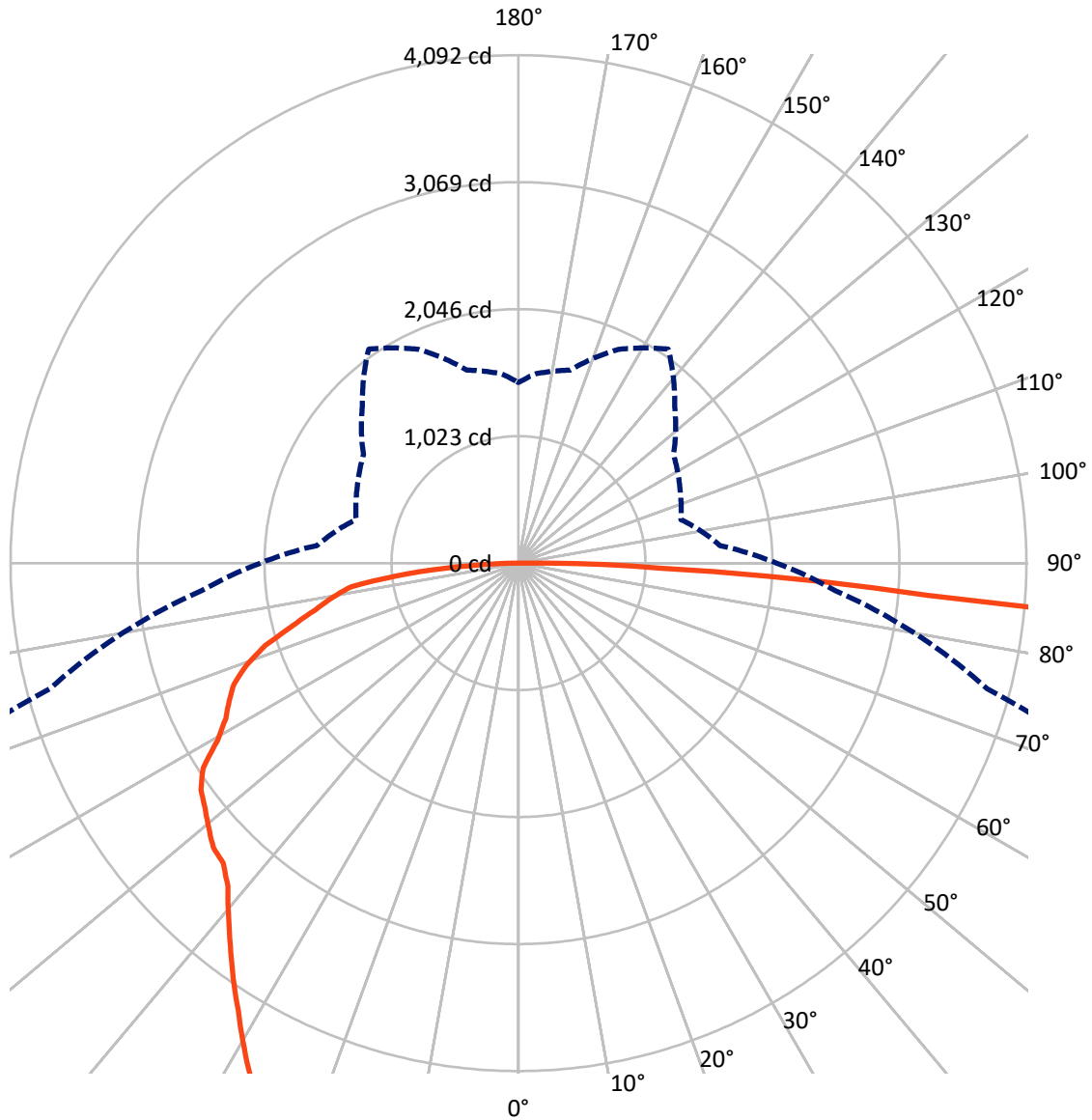
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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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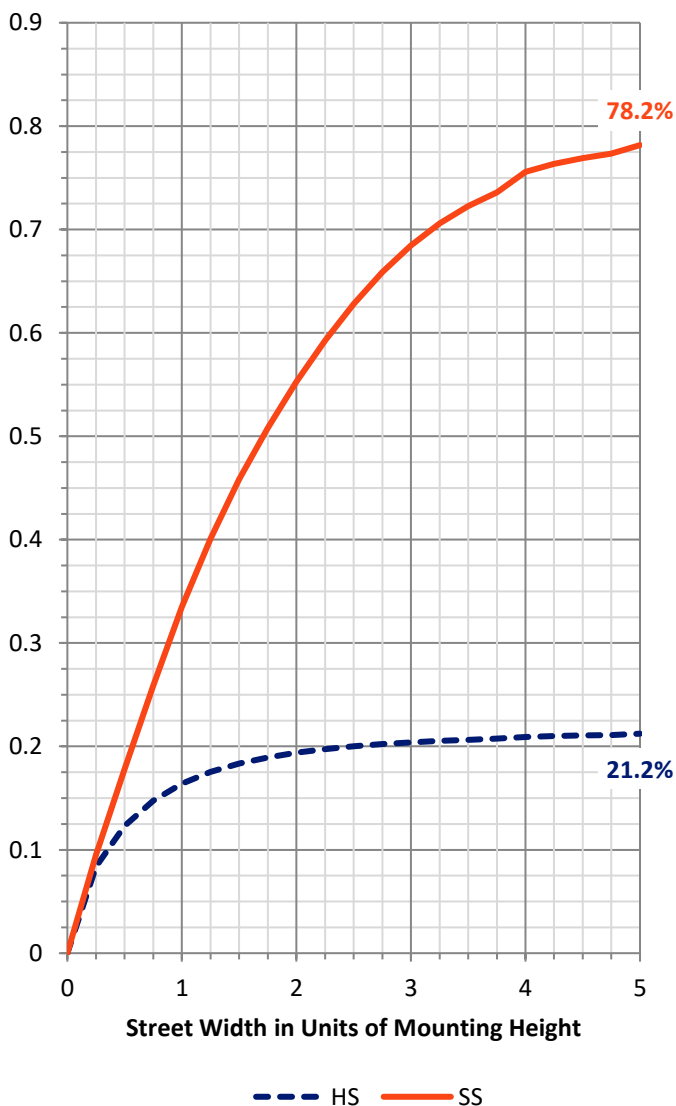
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10209.7	0.0	10209.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	37054.8	0.0	37054.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	47264.5	0.0	47264.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.4	1.3
10°-20°	1750.2	3.7
20°-30°	2880.6	6.1
30°-40°	4308.0	9.1
40°-50°	6386.4	13.5
50°-60°	9203.5	19.5
60°-70°	11744.8	24.8
70°-80°	9139.4	19.3
80°-90°	1226.1	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°	47264.5	100.0
0°-180°	47264.5	100.0

Coefficient of Utilization



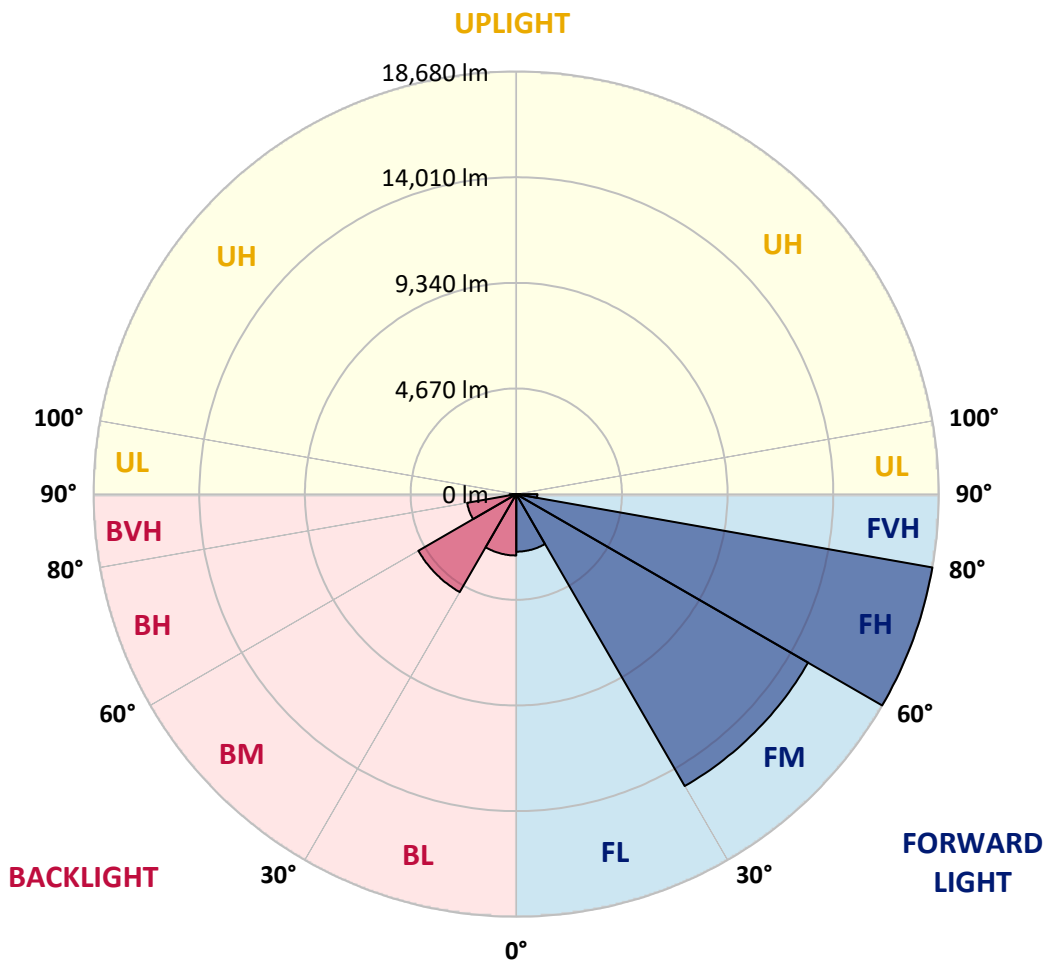
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2543.6	5.4			
FM (30°-60°)	14898.1	31.5			
FH (60°-80°)	18679.8	39.5			G5
FVH (80°-90°)	933.3	2.0			G5
BL (0°-30°)	2712.7	5.7	B4/5000		
BM (30°-60°)	4999.7	10.6	B3/5000		
BH (60°-80°)	2204.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	292.8	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°	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1
2.5°	6071.5	6091.5	6156.5	6171.5	6241.4	6201.4	6286.4	6436.3	6521.3	6646.2	6796.1
5°	5591.8	5506.8	5546.8	5701.7	5781.7	5801.7	5891.6	6146.5	6306.4	6491.3	6771.1
7.5°	5027.1	5012.1	5092.1	5192.0	5351.9	5366.9	5566.8	5791.7	6121.5	6531.3	6861.1
10°	4642.3	4707.3	4752.3	4857.2	4967.1	4967.1	5222.0	5611.8	5986.6	6381.3	6881.1
12.5°	4622.3	4582.4	4592.4	4647.3	4727.3	4827.2	5067.1	5416.9	5891.6	6351.4	6966.0
15°	4687.3	4702.3	4612.4	4682.3	4712.3	4747.3	5012.1	5406.9	5831.7	6456.3	7110.9
17.5°	5032.1	4947.2	4807.2	4742.3	4847.2	4847.2	5027.1	5336.9	5841.6	6511.3	7320.8
20°	5302.0	5302.0	5072.1	5002.1	5077.1	5062.1	5187.0	5416.9	5891.6	6621.2	7555.7
22.5°	5756.7	5821.7	5441.9	5297.0	5292.0	5331.9	5441.9	5636.8	6031.5	6776.1	7780.5
25°	6411.3	6426.3	5986.6	5836.6	5676.7	5741.7	5761.7	5956.6	6156.5	6956.0	8035.4
27.5°	7140.9	7130.9	6726.1	6351.4	6246.4	6261.4	6151.5	6281.4	6341.4	7011.0	8400.2
30°	7950.4	7860.5	7555.7	7026.0	6941.0	6846.1	6606.2	6601.2	6726.1	7320.8	8904.9
32.5°	8480.1	8365.2	8155.3	7775.5	7540.7	7550.7	7170.9	7165.9	7055.9	7660.6	9344.6
35°	8999.8	8824.9	8770.0	8380.2	8145.3	8170.3	7865.5	7825.5	7625.6	8175.3	10069.2
37.5°	9624.5	9469.6	9554.5	9259.7	8969.9	8849.9	8710.0	8660.0	8400.2	8899.9	11058.7
40°	10314.1	10264.1	10209.1	10064.2	9889.3	9899.3	9749.4	9699.4	9314.7	9774.4	12008.1
42.5°	11243.5	11053.7	10768.8	10863.8	10953.7	11048.7	10998.7	10868.8	10469.0	10663.9	13067.5
45°	12108.1	11858.2	11333.5	11363.5	11733.3	11808.2	12412.9	12397.9	11593.3	11793.2	14271.8
47.5°	12692.7	12577.8	12263.0	12228.0	12757.7	12752.7	13842.1	13842.1	12777.7	12917.6	15566.1
50°	13562.2	13262.4	13127.5	13302.4	13572.2	13757.1	15301.2	15396.2	13942.0	14091.9	17260.1
52.5°	14581.6	14206.8	13867.0	14316.8	14796.5	14916.4	16745.4	16705.4	14836.5	15456.1	19244.0
55°	15426.1	15236.3	15001.4	15261.2	16045.8	16195.7	18194.6	17824.8	15731.0	16585.5	20198.4
57.5°	16410.6	16525.5	16575.5	16510.5	17445.0	17679.9	19848.6	18789.2	16500.5	17345.0	20758.1
60°	17894.7	17964.7	18029.7	18184.6	19174.0	19503.8	21157.9	19998.5	16985.3	17784.8	20803.1
62.5°	20153.4	19883.6	20028.5	20563.2	21357.7	21732.5	23086.7	20848.0	17355.0	18049.6	19333.9
65°	22736.9	22372.2	22222.2	22911.8	24970.7	24670.8	25495.4	21482.7	16820.3	17060.2	16395.6
67.5°	25355.4	25395.4	25010.6	26394.8	28918.4	28918.4	27734.1	21787.5	15371.2	13827.1	11498.4
70°	27434.3	27559.2	27769.1	30452.5	34450.2	35054.9	30507.5	20538.2	12417.9	9204.7	6286.4
72.5°	27404.3	27029.5	28103.9	33046.0	39477.3	38972.6	31087.2	16240.7	7750.6	4507.4	2883.3
73°	26789.6	26474.8	27649.1	33021.0	39682.2	39207.5	30662.4	14971.4	6836.1	3907.8	2563.5
75°	21877.4	21307.8	23306.6	29907.8	36713.9	37078.7	26050.0	9764.4	3747.8	2408.6	1804.0
77.5°	9974.3	10224.1	12827.6	20063.5	28293.8	28723.5	17125.2	4222.6	2053.8	1689.0	1329.2
80°	3203.2	3363.1	4992.1	9974.3	17734.8	18509.4	7915.5	1918.9	1464.2	1294.3	994.4
82.5°	1224.3	1219.3	2093.8	4147.6	8405.2	8899.9	2893.3	1169.3	1089.4	954.5	704.6
85°	429.8	449.7	789.5	1639.1	3308.1	3463.0	1004.4	649.6	754.6	639.6	404.8
87.5°	149.9	154.9	279.8	594.7	1139.3	1204.3	279.8	259.9	374.8	369.8	204.9
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°	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1	6776.1
2.5°	6846.1	6891.0	6906.0	7085.9	7085.9	7085.9	7155.9	7155.9	7135.9	7085.9	7205.9
5°	6876.1	6956.0	7110.9	7265.8	7305.8	7340.8	7435.7	7355.8	7385.8	7335.8	7380.8
7.5°	6961.0	7070.9	7360.8	7455.7	7390.8	7465.7	7365.8	7310.8	7255.8	7275.8	7205.9
10°	7105.9	7245.8	7380.8	7555.7	7430.7	7355.8	7150.9	7100.9	6926.0	6866.1	6921.0
12.5°	7285.8	7455.7	7685.6	7620.6	7380.8	7165.9	6946.0	6736.1	6631.2	6481.3	6521.3
15°	7465.7	7660.6	7695.6	7585.6	7285.8	7016.0	6616.2	6321.4	6216.4	6081.5	6151.5
17.5°	7660.6	7845.5	7785.5	7500.7	7095.9	6686.2	6231.4	5941.6	5721.7	5636.8	5636.8
20°	7950.4	8040.4	7945.4	7360.8	6866.1	6326.4	5886.6	5556.8	5336.9	5302.0	5247.0
22.5°	8175.3	8320.2	7895.5	7155.9	6531.3	5856.6	5351.9	5227.0	5162.0	5107.1	5037.1
25°	8465.1	8460.1	7805.5	6966.0	5956.6	5297.0	4992.1	4982.1	4952.2	4932.2	5027.1
27.5°	8740.0	8625.0	7700.6	6496.3	5361.9	4872.2	4707.3	4817.2	4862.2	4832.2	4872.2
30°	9174.7	8984.8	7550.7	5996.6	4837.2	4442.5	4472.4	4622.3	4697.3	4742.3	4682.3
32.5°	9634.5	9344.6	7240.8	5476.9	4372.5	4172.6	4242.6	4397.5	4487.4	4537.4	4592.4
35°	10299.1	9624.5	6926.0	4797.2	4037.7	4007.7	4047.7	4132.6	4262.6	4297.5	4312.5
37.5°	11118.6	10049.2	6501.3	4252.6	3777.8	3812.8	3852.8	3882.8	3887.8	3952.7	3927.7
40°	11938.1	10409.0	5881.6	3732.9	3508.0	3697.9	3677.9	3622.9	3577.9	3518.0	3503.0
42.5°	12657.7	10723.8	5192.0	3293.1	3268.1	3577.9	3513.0	3373.1	3268.1	3223.1	3148.2
45°	13467.3	11168.6	4497.4	3018.3	3083.2	3433.0	3413.0	3198.2	3063.2	2903.3	2883.3
47.5°	14516.7	11633.3	3832.8	2733.4	2908.3	3378.1	3388.1	3113.2	2918.3	2703.4	2673.5
50°	15860.9	12302.9	3328.1	2613.5	2803.4	3298.1	3313.1	2998.3	2743.4	2523.6	2503.6
52.5°	17150.2	12987.5	2908.3	2428.6	2733.4	3203.2	3238.1	2893.3	2598.5	2323.7	2338.7
55°	17799.8	12737.7	2548.5	2293.7	2573.5	3048.3	3178.2	2818.4	2378.6	2188.7	2183.7
57.5°	17944.7	12123.0	2263.7	2153.8	2438.6	2883.3	3078.2	2593.5	2278.7	2118.8	2098.8
60°	17470.0	11048.7	2038.8	2003.8	2268.7	2713.4	2848.4	2473.6	2178.7	2048.8	2018.8
62.5°	16300.6	9934.3	1883.9	1933.9	2123.8	2528.5	2703.4	2388.6	2083.8	1993.9	1928.9
65°	13367.3	8170.3	1759.0	1799.0	1973.9	2348.7	2613.5	2293.7	1998.9	1913.9	1908.9
67.5°	9259.7	5631.8	1659.0	1734.0	1853.9	2218.7	2523.6	2188.7	1888.9	1858.9	1819.0
70°	4742.3	3003.3	1529.1	1589.1	1724.0	2053.8	2363.6	2078.8	1774.0	1769.0	1719.0
72.5°	2403.6	1759.0	1379.2	1469.2	1564.1	1838.9	2163.8	1933.9	1629.1	1574.1	1494.1
73°	2078.8	1629.1	1354.2	1434.2	1524.1	1779.0	2103.8	1898.9	1609.1	1529.1	1454.2
75°	1514.1	1284.3	1214.3	1294.3	1364.2	1604.1	1903.9	1739.0	1479.2	1394.2	1324.2
77.5°	1134.3	989.4	1009.4	1099.4	1159.3	1384.2	1694.0	1574.1	1339.2	1224.3	1194.3
80°	834.5	754.6	834.5	919.5	964.4	1219.3	1544.1	1364.2	1129.4	999.4	974.4
82.5°	594.7	549.7	644.6	699.6	719.6	1009.4	1389.2	1089.4	854.5	684.6	629.6
85°	339.8	334.8	434.8	429.8	444.7	589.7	914.5	724.6	549.7	419.8	409.8
87.5°	149.9	164.9	219.9	174.9	184.9	279.8	389.8	269.8	224.9	124.9	94.9
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)