

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: P481270

Luminaire Tested: **IFLD-L-SA8D-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481270
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

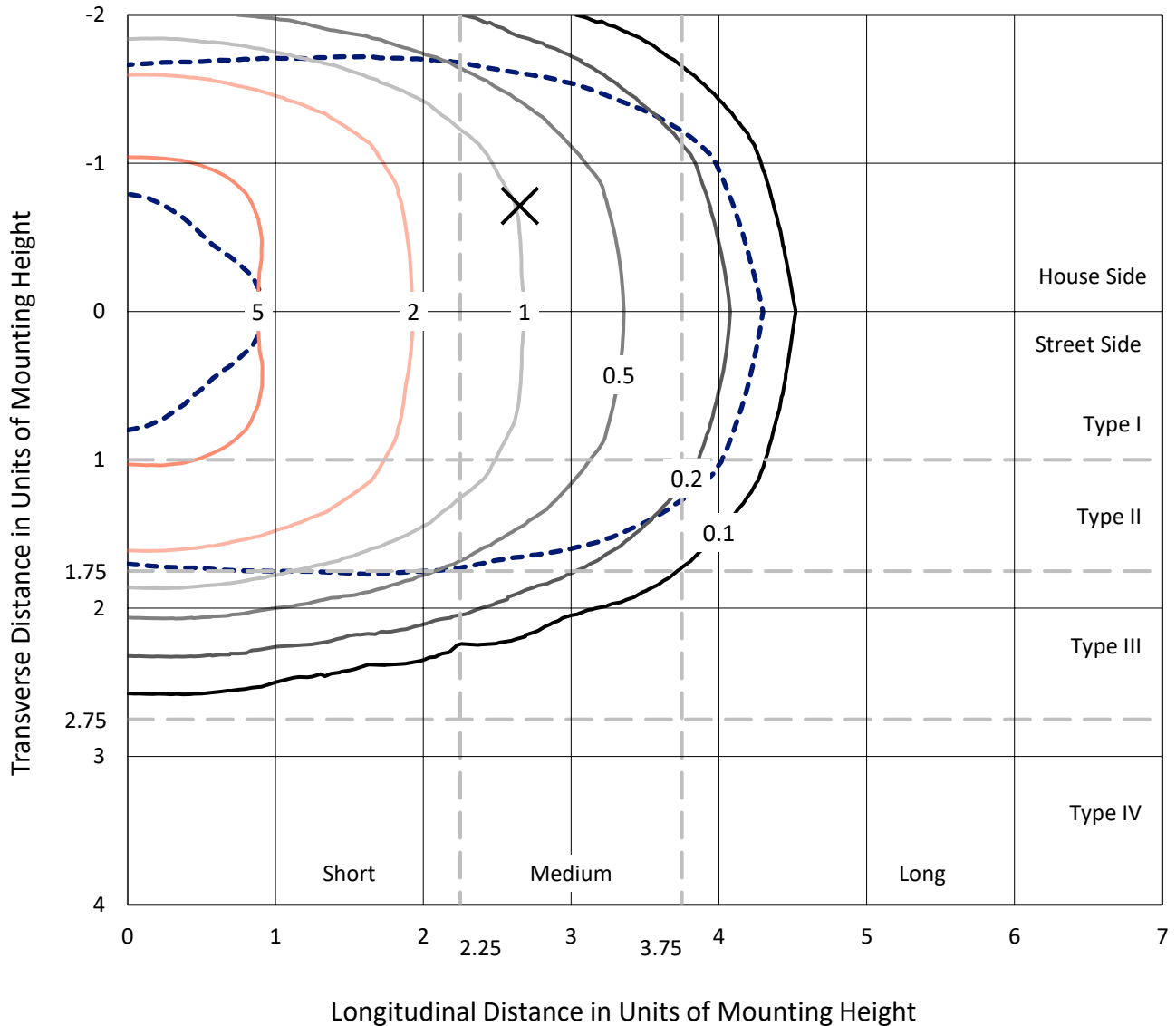
Lumens per Lamp: N/A
Luminaire Lumens: 56634.9 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 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

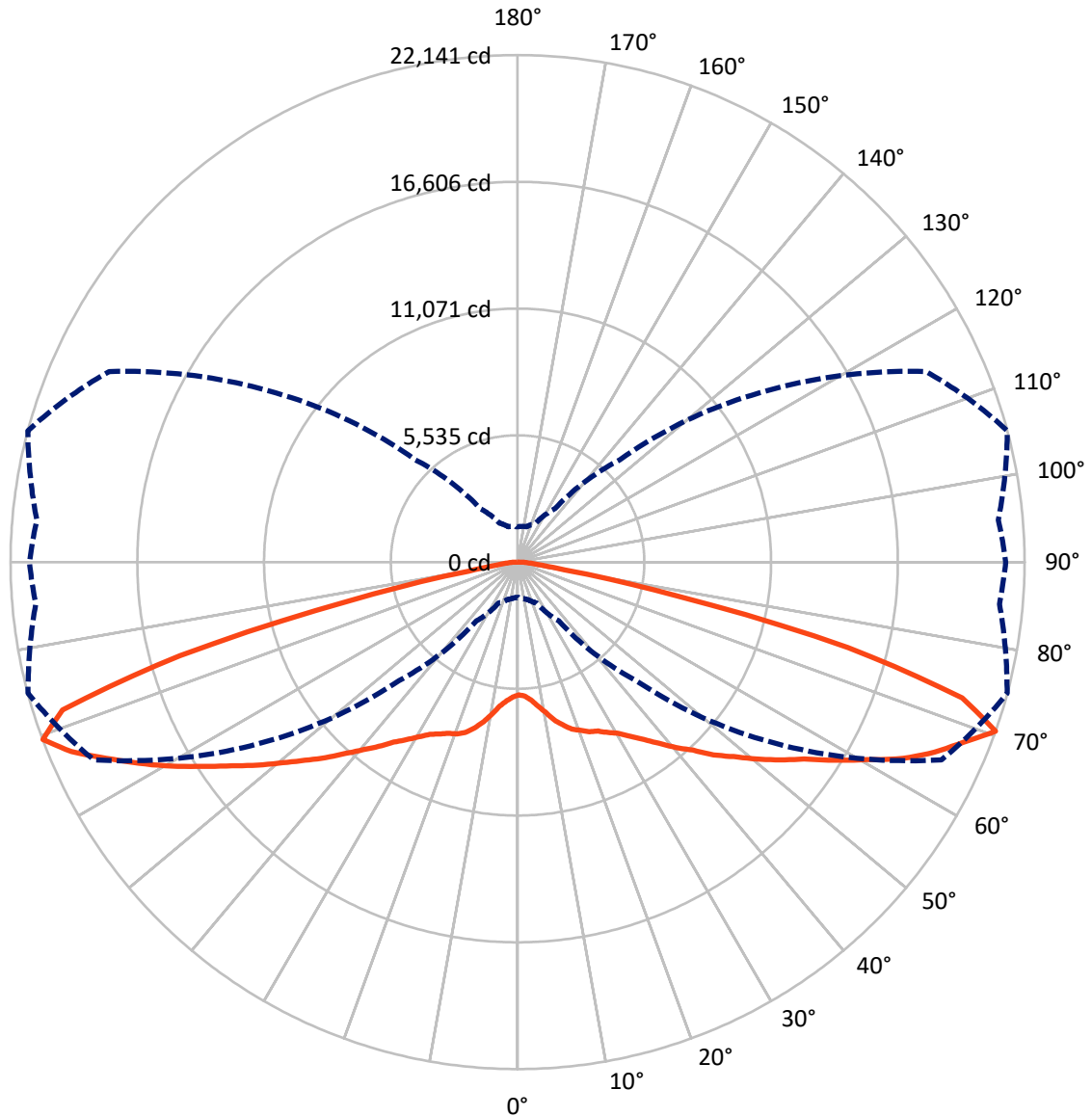
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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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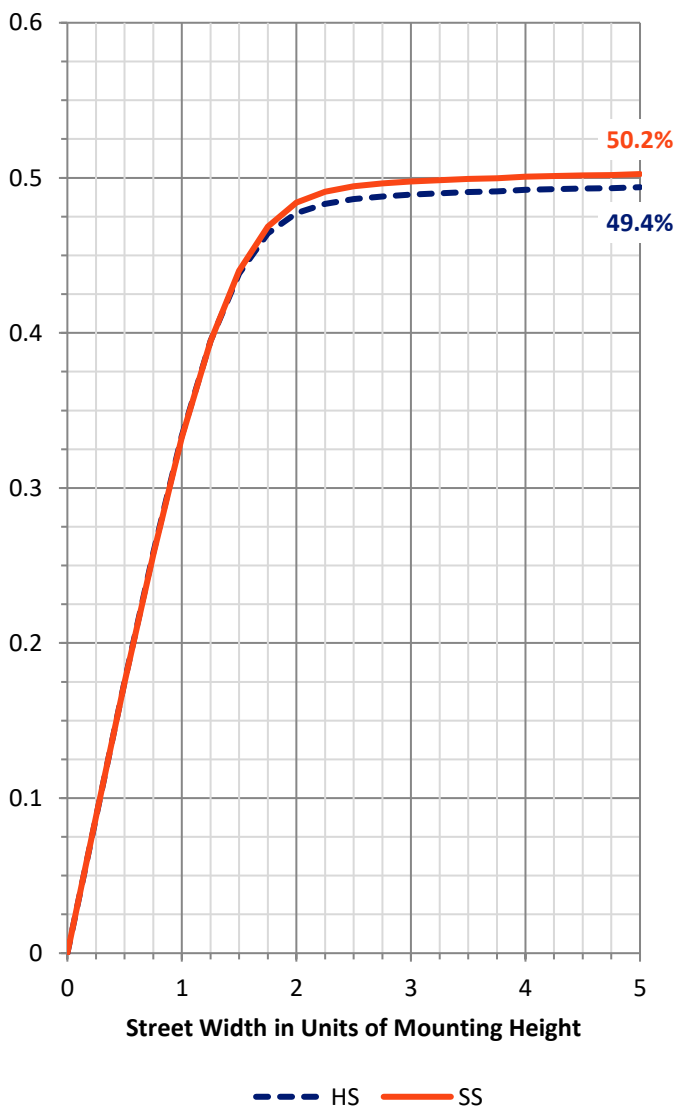
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28116.0	0.0	28116.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	28518.9	0.0	28518.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	56634.9	0.0	56634.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.2	1.0
10°-20°	1965.4	3.5
20°-30°	3805.7	6.7
30°-40°	6437.1	11.4
40°-50°	10269.0	18.1
50°-60°	14056.1	24.8
60°-70°	13248.8	23.4
70°-80°	5836.5	10.3
80°-90°	439.1	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°	56634.9	100.0
0°-180°	56634.9	100.0

Coefficient of Utilization

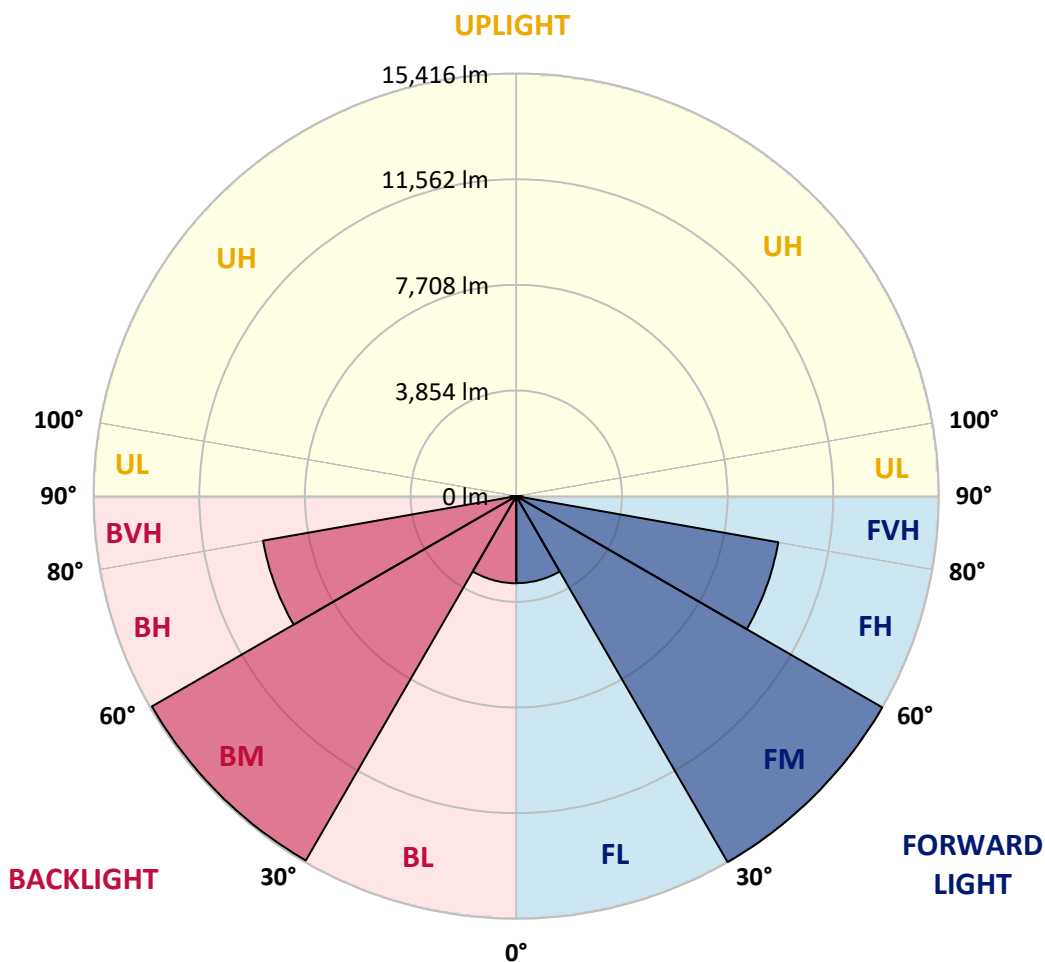


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3172.5	5.6			
FM (30°-60°)	15415.5	27.2			
FH (60°-80°)	9706.6	17.1			G4/12000
FVH (80°-90°)	224.3	0.4			G2/225
BL (0°-30°)	3175.9	5.6	B4/5000		
BM (30°-60°)	15346.6	27.1	B5		
BH (60°-80°)	9378.6	16.6	B5		G5
BVH (80°-90°)	214.8	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°	5799.4	5799.4	5799.4	5799.4	5799.4	5799.4	5799.4	5799.4	5799.4	5799.4	5799.4
2.5°	5762.7	5762.7	5756.6	5787.2	5817.7	5829.9	5854.3	5860.4	5897.0	5866.5	5927.6
5°	5744.4	5738.3	5787.2	5860.4	5860.4	5939.8	5988.6	6055.8	6074.1	6110.7	6122.9
7.5°	5872.6	5860.4	5836.0	5915.3	5982.5	6104.6	6171.7	6287.7	6330.5	6379.3	6434.2
10°	5952.0	5952.0	5927.6	6068.0	6129.0	6293.8	6440.3	6556.3	6721.2	6776.1	6782.2
12.5°	5964.2	5982.5	6055.8	6238.9	6409.8	6623.5	6733.4	6953.1	7118.0	7221.7	7258.4
15°	6147.3	6110.7	6190.1	6440.3	6690.6	6879.9	7075.2	7233.9	7472.0	7606.3	7691.8
17.5°	6312.1	6275.5	6422.0	6721.2	6977.5	7270.6	7441.5	7612.4	7783.4	7905.4	7911.5
20°	6574.6	6605.2	6733.4	7056.9	7392.7	7649.1	7844.4	7874.9	7960.4	8137.4	8106.9
22.5°	6898.2	6873.8	7142.4	7496.4	7862.7	8076.4	8186.3	8106.9	8064.2	8253.4	8296.1
25°	7221.7	7295.0	7539.2	7868.8	8308.3	8595.3	8625.8	8406.0	8247.3	8314.5	8296.1
27.5°	7716.2	7728.4	7984.8	8375.5	8821.1	9071.4	9053.1	8741.8	8436.5	8442.6	8454.9
30°	8351.1	8290.0	8570.8	8924.9	9364.4	9590.3	9620.8	9175.2	8766.2	8644.1	8674.6
32.5°	8961.5	9034.8	9279.0	9681.9	10005.4	10133.6	10066.5	9669.7	9138.6	8973.7	8992.1
35°	9742.9	9730.7	10066.5	10408.3	10652.5	10676.9	10622.0	10042.1	9541.5	9327.8	9242.3
37.5°	10579.3	10689.1	10908.9	11189.7	11446.1	11458.3	11159.2	10695.2	10078.7	9724.6	9828.4
40°	11513.3	11635.3	11794.1	12203.1	12392.3	12197.0	11891.7	11263.0	10622.0	10310.7	10359.5
42.5°	12337.4	12392.3	12715.9	13198.1	13289.7	13204.2	12752.5	11989.4	11244.7	10902.8	10927.2
45°	13094.3	13167.6	13588.8	14022.2	14235.9	14089.4	13564.4	12838.0	11971.1	11678.1	11562.1
47.5°	13790.3	13936.8	14345.8	14791.4	15121.1	15133.3	14486.2	13607.1	12691.4	12306.9	12300.7
50°	14260.3	14474.0	14876.9	15383.6	15865.8	16055.1	15408.0	14461.8	13478.9	13069.9	13027.2
52.5°	14516.7	14736.5	15139.4	15926.9	16464.1	16757.1	16451.9	15261.5	14400.7	13973.4	13906.3
55°	14205.4	14351.9	15011.2	16116.1	16946.3	17428.6	17227.2	16366.4	15316.4	14968.5	15029.5
57.5°	12880.7	13185.9	13997.8	15377.5	16934.1	18118.4	18100.1	17410.3	16372.5	16042.9	16055.1
60°	10603.7	10860.1	11861.2	13790.3	16250.4	18399.2	19046.3	18423.7	17556.8	17172.2	17160.0
62.5°	7484.2	7807.8	8967.6	11073.7	14235.9	18008.5	20132.9	19699.5	18716.7	18435.9	18539.6
65°	4187.7	4383.1	5457.5	7362.1	10847.9	15859.7	20328.3	21024.2	19894.9	19467.5	19485.9
67.5°	2240.4	2313.6	2814.2	3864.2	6635.7	12227.5	18356.5	21787.3	21170.7	20432.1	20316.1
70°	1538.4	1562.8	1691.0	1977.9	3137.8	7313.3	13845.2	20426.0	22129.1	21121.9	21317.2
72.5°	1300.3	1288.1	1318.6	1349.1	1642.1	3272.1	8125.2	15719.3	20889.9	20511.4	20438.2
75°	1129.3	1123.2	1135.5	1104.9	1141.6	1440.7	3595.6	9797.9	15292.0	17068.4	17343.1
77.5°	934.0	940.1	946.2	915.7	903.5	952.3	1446.8	4303.7	7527.0	8308.3	8961.5
80°	708.1	720.3	769.2	738.7	689.8	695.9	854.6	1440.7	2161.0	1959.6	2020.6
82.5°	482.3	488.4	592.1	555.5	518.9	470.1	549.4	744.8	842.4	641.0	561.6
85°	341.9	335.8	384.6	354.1	329.6	238.1	329.6	421.2	506.7	317.4	286.9
87.5°	79.4	79.4	158.7	128.2	122.1	97.7	128.2	164.8	219.8	140.4	128.2
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°	5799.4	5799.4	5799.4	5799.4	5799.4	5799.4	5799.4	5799.4	5799.4	5799.4
2.5°	5909.2	5854.3	5854.3	5842.1	5793.3	5781.0	5738.3	5750.5	5720.0	5689.5
5°	6116.8	6043.5	6043.5	5939.8	5842.1	5829.9	5781.0	5781.0	5732.2	5744.4
7.5°	6403.7	6336.6	6226.7	6135.1	6000.8	5945.9	5854.3	5842.1	5829.9	5805.5
10°	6745.6	6660.1	6550.2	6361.0	6251.1	6147.3	6055.8	5927.6	5897.0	5903.1
12.5°	7209.5	7075.2	6837.1	6672.3	6531.9	6397.6	6263.3	6074.1	6031.3	6049.6
15°	7539.2	7368.2	7130.2	7069.1	6879.9	6715.0	6495.3	6281.6	6208.4	6190.1
17.5°	7807.8	7667.4	7527.0	7435.4	7282.8	7081.3	6776.1	6531.9	6367.1	6348.8
20°	8027.5	7844.4	7813.9	7868.8	7679.6	7545.3	7172.9	6873.8	6654.0	6562.4
22.5°	8161.8	8045.8	8131.3	8180.2	8167.9	7942.1	7557.5	7209.5	6934.8	6849.4
25°	8308.3	8174.0	8479.3	8644.1	8686.8	8314.5	8015.3	7557.5	7288.9	7233.9
27.5°	8381.6	8430.4	8784.5	9132.5	9101.9	8815.0	8412.1	8003.1	7789.5	7691.8
30°	8595.3	8674.6	9211.8	9602.5	9608.6	9327.8	9022.6	8558.6	8320.6	8277.8
32.5°	8979.9	9077.5	9651.4	10066.5	10139.7	9926.1	9620.8	9333.9	9089.7	8992.1
35°	9272.9	9523.2	10170.2	10548.7	10744.1	10615.9	10445.0	10145.8	9889.4	9804.0
37.5°	9694.1	10042.1	10664.7	11177.5	11397.3	11385.1	11256.9	10933.3	10719.7	10646.4
40°	10298.4	10646.4	11214.1	11891.7	12300.7	12282.4	12209.2	11958.9	11641.5	11604.8
42.5°	10939.4	11226.3	11965.0	12740.3	13326.3	13265.3	13069.9	12776.9	12557.1	12508.3
45°	11562.1	12007.7	12691.4	13686.5	14126.0	14278.6	14046.7	13546.1	13295.8	13265.3
47.5°	12343.5	12697.5	13552.2	14443.5	15096.7	15121.1	14724.3	14260.3	13802.5	13900.2
50°	13039.4	13509.5	14376.3	15353.0	16134.4	15853.6	15346.9	14767.0	14437.4	14309.2
52.5°	13784.2	14358.0	15365.3	16360.3	16793.7	16512.9	15688.8	15041.7	14541.1	14486.2
55°	14870.8	15169.9	16488.5	17251.6	17392.0	16799.8	15585.0	14669.3	14022.2	13863.5
57.5°	15975.7	16323.7	17477.4	18136.7	17990.2	16641.1	14913.5	13497.2	12648.7	12422.8
60°	17092.9	17520.2	18490.8	19095.2	18338.2	15548.4	13015.0	11189.7	10200.8	9999.3
62.5°	18338.2	18893.7	19760.6	19974.2	17306.5	13387.4	10329.0	8076.4	7075.2	6739.5
65°	19443.1	20010.8	21079.1	19791.1	15115.0	9987.1	6678.4	4615.1	3876.4	3607.8
67.5°	20352.7	20993.7	21518.7	17514.1	11067.6	5848.2	3479.6	2429.6	2154.9	2057.2
70°	21073.0	22141.3	19687.3	12874.6	6324.4	2850.8	1880.2	1599.4	1562.8	1538.4
72.5°	20444.3	20303.9	14699.9	7429.3	2771.5	1568.9	1361.3	1318.6	1312.5	1318.6
75°	16720.5	14913.5	8790.6	3229.3	1391.8	1135.5	1129.3	1111.0	1141.6	1141.6
77.5°	8113.0	7093.5	3675.0	1385.7	915.7	891.3	921.8	921.8	921.8	921.8
80°	1880.2	2081.7	1312.5	842.4	665.4	665.4	732.6	738.7	708.1	695.9
82.5°	641.0	854.6	720.3	531.1	439.5	494.5	555.5	567.7	470.1	476.2
85°	317.4	500.6	390.7	305.2	225.9	305.2	360.2	378.5	323.5	311.3
87.5°	146.5	219.8	146.5	103.8	79.4	109.9	103.8	85.5	48.8	48.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)