

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: P480837

Luminaire Tested: **IFLD-L-SA7E-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480837
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

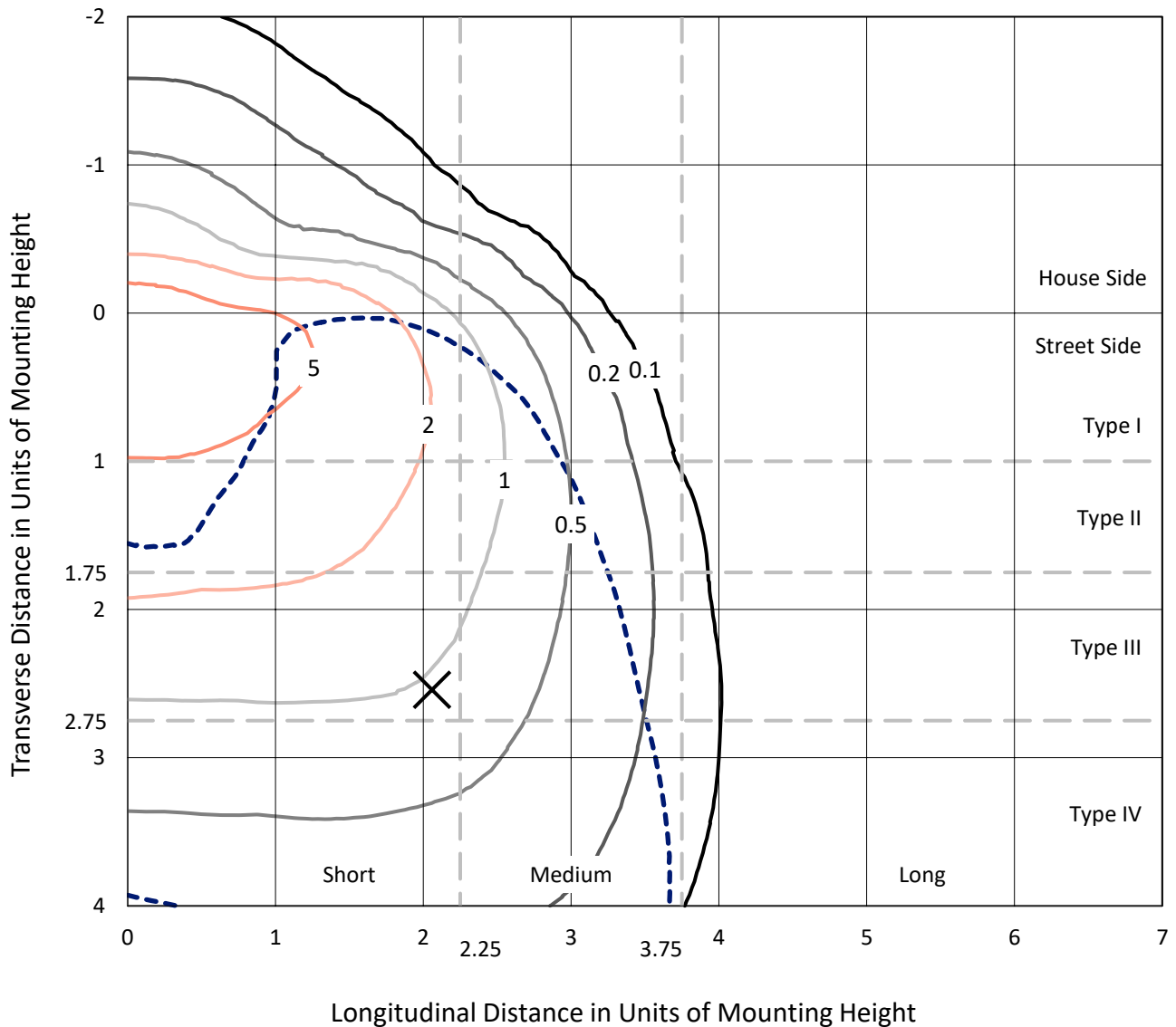
Lumens per Lamp: N/A
Luminaire Lumens: 49722.7 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7
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

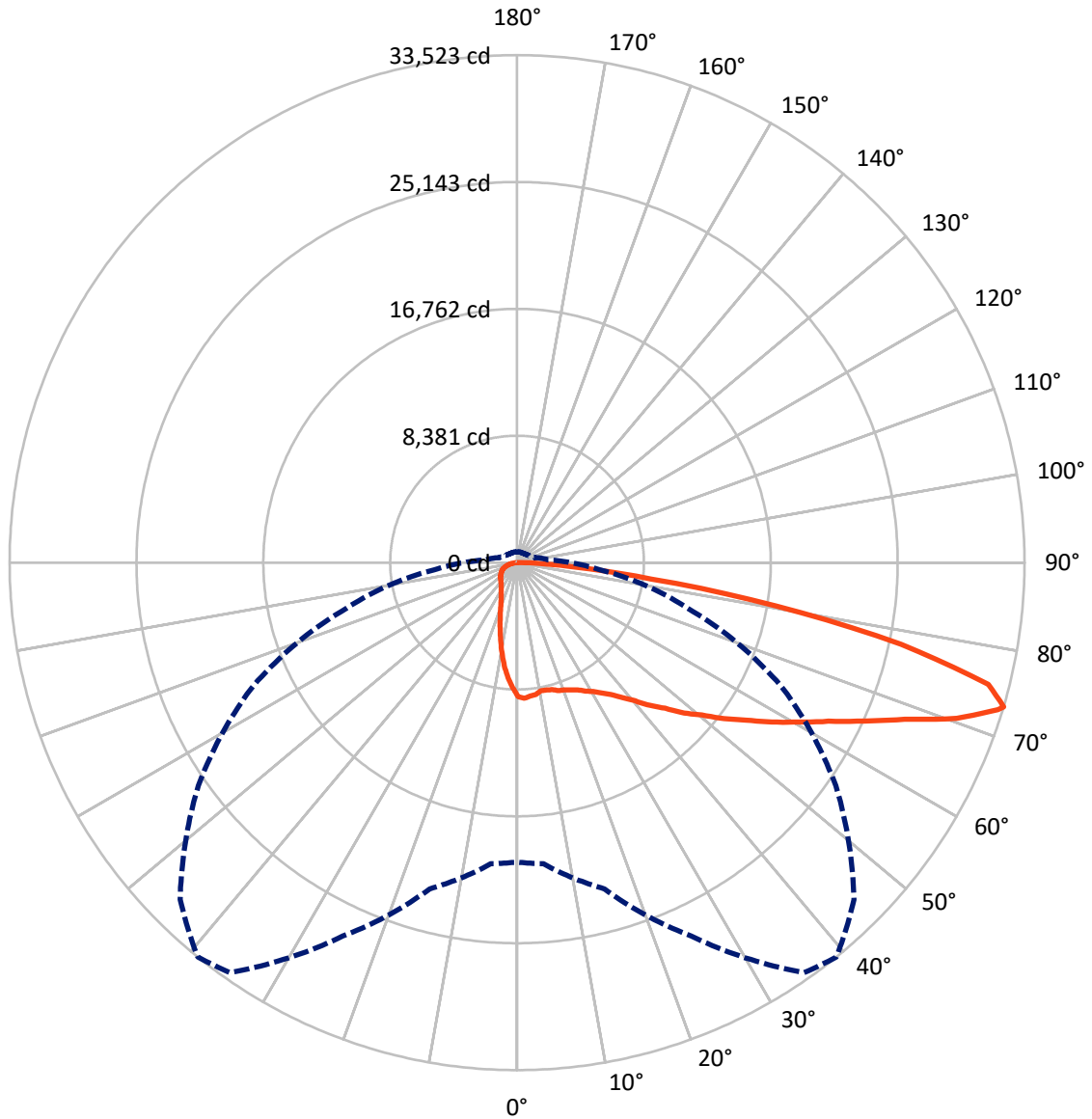
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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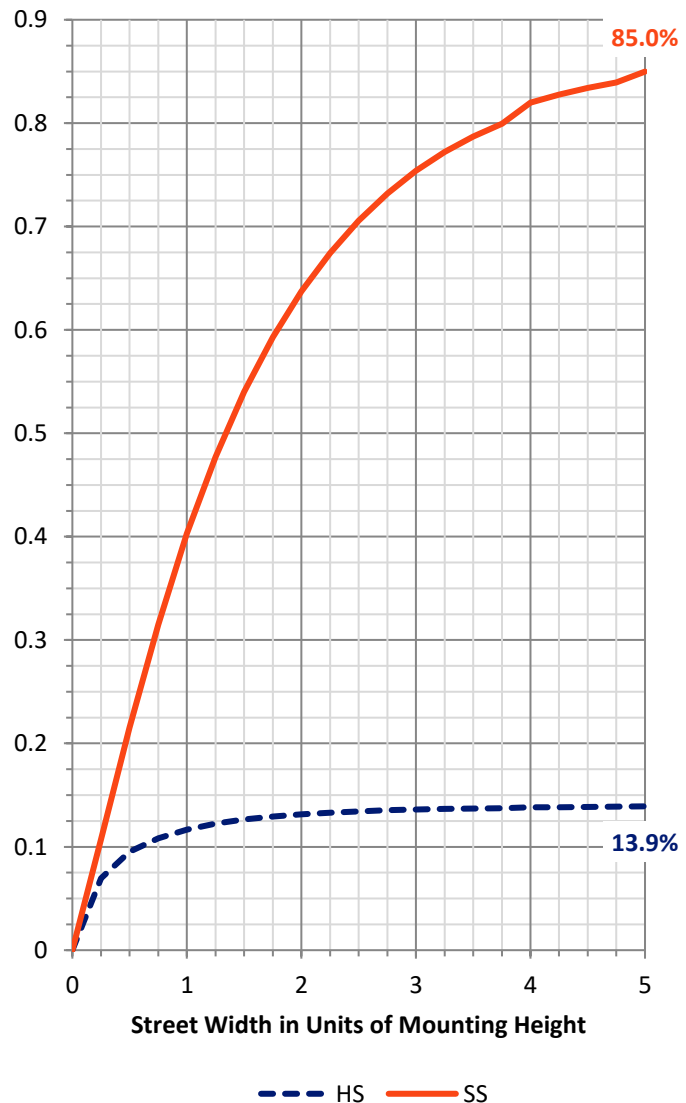
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6989.6	0.0	6989.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	42733.1	0.0	42733.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	49722.7	0.0	49722.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.3	1.5
10°-20°	1953.2	3.9
20°-30°	2984.7	6.0
30°-40°	4351.8	8.8
40°-50°	6576.0	13.2
50°-60°	9522.5	19.2
60°-70°	12098.8	24.3
70°-80°	9807.9	19.7
80°-90°	1659.4	3.3
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°	49722.7	100.0
0°-180°	49722.7	100.0

Coefficient of Utilization



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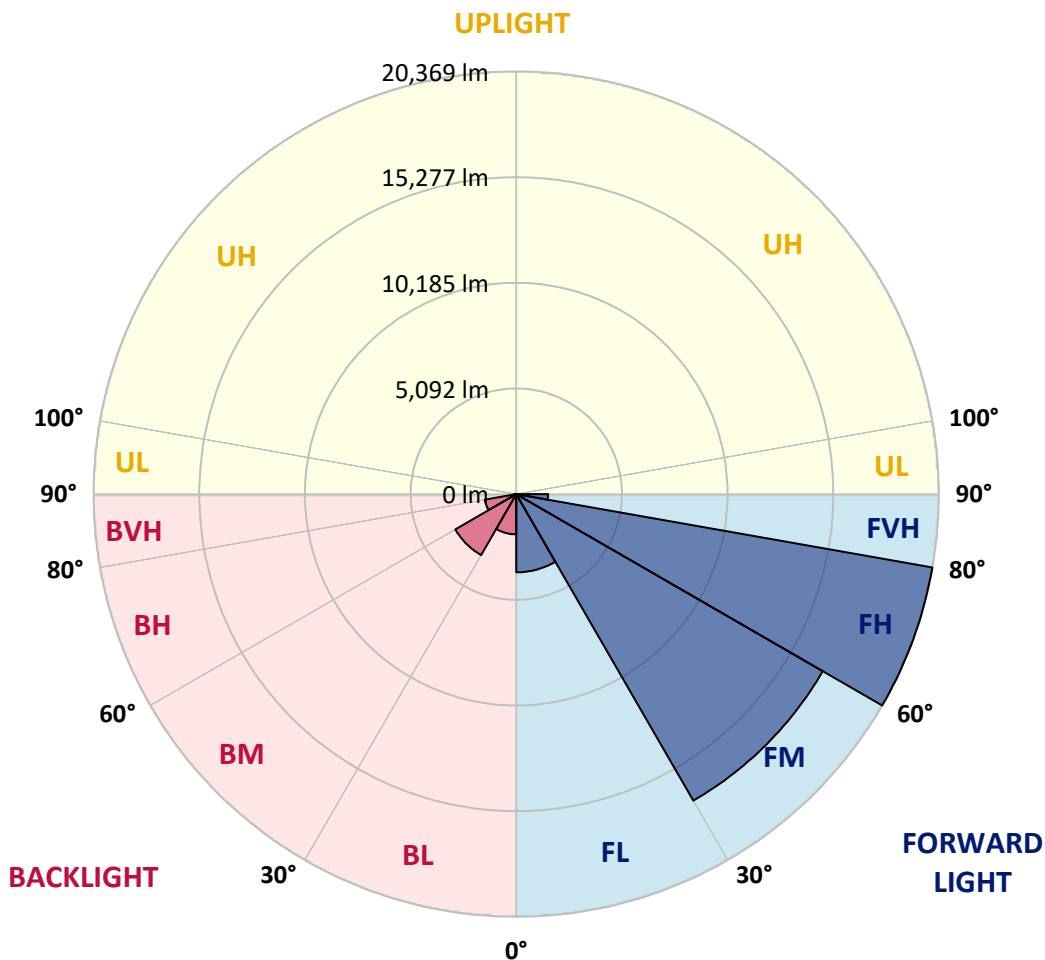
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3767.9	7.6			
FM (30°-60°)	17058.1	34.3			
FH (60°-80°)	20369.4	41.0			G5
FVH (80°-90°)	1537.7	3.1			G5
BL (0°-30°)	1938.4	3.9	B3/2500		
BM (30°-60°)	3392.2	6.8	B3/5000		
BH (60°-80°)	1537.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	121.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9
2.5°	9062.3	8967.8	8984.5	8951.1	8984.5	8973.3	8956.6	8873.2	8956.6	8873.2	8850.9
5°	8940.0	8940.0	8995.6	8912.1	8923.3	8867.6	8923.3	8862.1	8806.4	8667.4	8628.4
7.5°	8901.0	8895.5	8901.0	8784.2	8839.8	8806.4	8750.8	8684.1	8572.8	8483.8	8355.8
10°	8634.0	8689.6	8628.4	8661.8	8706.3	8606.2	8600.6	8583.9	8533.8	8417.0	8339.1
12.5°	8489.3	8583.9	8617.3	8589.5	8628.4	8639.5	8606.2	8583.9	8522.7	8444.8	8222.3
15°	8550.5	8439.3	8533.8	8717.4	8678.5	8706.3	8711.9	8689.6	8661.8	8517.2	8372.5
17.5°	8567.2	8500.5	8700.7	8739.7	8789.8	8889.9	8823.1	8817.6	8711.9	8611.7	8400.3
20°	8606.2	8578.4	8739.7	8945.5	8951.1	8967.8	9001.2	8917.7	8862.1	8689.6	8367.0
22.5°	8750.8	8845.4	8995.6	9084.6	9134.7	9145.8	9145.8	8978.9	8917.7	8778.6	8522.7
25°	9184.7	9084.6	9296.0	9401.7	9329.4	9312.7	9273.7	9123.5	9056.8	8934.4	8595.0
27.5°	9501.8	9496.3	9618.7	9763.3	9568.6	9607.5	9468.5	9423.9	9273.7	9207.0	8723.0
30°	9935.8	10058.1	10052.6	10097.1	9841.2	9885.7	9707.7	9624.2	9540.8	9579.7	9101.3
32.5°	10492.1	10447.6	10519.9	10486.5	10230.6	10269.5	10058.1	9930.2	9958.0	10074.8	9618.7
35°	10848.1	10803.6	10831.4	10831.4	10753.5	10709.0	10620.0	10453.1	10586.6	10803.6	10197.2
37.5°	11232.0	11287.6	11448.9	11415.6	11315.4	11315.4	11304.3	11187.5	11359.9	11894.0	11120.7
40°	11571.3	11721.5	11821.7	11888.4	12005.2	12005.2	12099.8	12033.1	12344.6	13201.3	12250.0
42.5°	11927.4	11932.9	12478.1	12528.2	12789.6	12900.9	12973.2	13028.9	13613.0	14569.8	13457.2
45°	12383.5	12411.4	12889.8	13273.6	13679.7	13718.7	13991.3	14174.9	14892.5	16066.3	14770.1
47.5°	12984.4	12951.0	13462.8	14074.7	14581.0	14848.0	15176.2	15376.5	16261.0	17690.8	16205.4
50°	13774.3	13674.2	13969.0	14931.5	15526.7	15821.6	16405.7	16739.5	17774.2	19242.9	17190.1
52.5°	14736.7	14569.8	14803.5	15854.9	16522.5	17117.8	17674.1	18046.8	19126.1	20444.5	17918.9
55°	15754.8	15409.9	15476.6	16834.0	17796.5	18358.3	19120.5	19509.9	20611.4	21523.8	18647.6
57.5°	16761.7	16544.8	16411.2	17774.2	19315.2	19854.8	20555.8	21062.0	21996.6	22480.6	19265.1
60°	17607.3	17551.7	17334.7	19231.8	20922.9	21384.7	22119.0	22430.6	23137.1	23365.2	19276.3
62.5°	18302.7	18113.6	18458.5	20405.6	22558.5	23081.4	23888.1	23915.9	24416.6	23915.9	18708.8
65°	18847.9	18859.0	19409.8	21824.2	24450.0	25223.2	25874.1	25801.8	25479.2	23587.7	17368.1
67.5°	19343.0	19554.4	20361.1	23381.9	26881.1	27609.8	28333.0	27376.2	25768.4	22052.3	14747.9
70°	19732.4	19943.8	21646.2	25278.9	29746.1	30814.2	30975.5	27999.3	24438.8	18681.0	11126.3
72.5°	19687.9	20071.8	22374.9	26792.1	32288.4	33211.9	31910.1	26246.9	20361.1	13023.3	6492.2
73°	19782.5	19971.7	22313.7	27214.9	33061.7	33523.4	31476.2	25696.1	19203.9	11682.6	5490.8
75°	17957.8	18597.6	21206.7	26525.0	32232.8	32149.4	28983.9	21412.5	13651.9	6136.1	2659.2
77.5°	13284.8	13690.9	16711.7	21813.0	26458.3	25924.2	21863.1	13685.3	6481.1	2275.3	1435.3
80°	6492.2	6809.3	8856.5	12594.9	17301.3	17345.9	13568.5	7120.8	2776.0	1285.1	979.1
82.5°	3243.3	3432.5	4255.8	5535.3	8511.6	8917.7	6881.6	4050.0	1719.0	728.8	556.3
85°	2119.6	2253.1	2620.2	2709.2	3610.5	3810.7	3204.4	3159.9	1118.2	395.0	450.6
87.5°	1407.5	1429.7	1607.7	1368.5	1446.4	1390.8	1546.6	1991.6	328.2	166.9	122.4
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°	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9	8850.9
2.5°	8823.1	8745.2	8661.8	8545.0	8461.5	8333.6	8216.7	8166.7	8155.6	8161.1	8105.5
5°	8595.0	8483.8	8316.9	8077.7	7938.6	7727.2	7549.2	7454.6	7354.5	7371.2	7326.6
7.5°	8277.9	8155.6	7899.6	7621.5	7276.6	6976.2	6809.3	6575.6	6442.1	6342.0	6397.6
10°	8177.8	7966.4	7582.6	7198.7	6664.6	6269.7	5885.8	5618.8	5435.2	5257.2	5335.0
12.5°	8127.7	7916.3	7382.3	6814.8	6125.0	5524.2	4984.6	4656.3	4394.9	4239.1	4300.3
15°	8083.2	7821.8	7193.1	6392.0	5618.8	4828.8	4222.4	3788.5	3538.2	3387.9	3404.6
17.5°	8144.4	7771.7	6915.0	5980.4	5062.5	4216.9	3543.7	3093.1	2837.2	2742.6	2720.4
20°	8083.2	7716.1	6642.4	5568.7	4506.1	3632.7	2987.4	2614.7	2436.7	2358.8	2342.1
22.5°	8105.5	7582.6	6358.7	5112.5	3988.8	3143.2	2614.7	2331.0	2191.9	2152.9	2164.1
25°	8211.2	7504.7	6074.9	4611.8	3477.0	2781.6	2375.5	2158.5	2058.4	2019.4	2030.5
27.5°	8289.1	7571.4	5819.0	4139.0	3043.0	2458.9	2175.2	2030.5	1963.8	1936.0	1930.4
30°	8483.8	7610.4	5568.7	3716.2	2687.0	2247.5	2036.1	1919.3	1874.8	1858.1	1852.5
32.5°	8773.1	7682.7	5279.4	3326.8	2425.5	2047.2	1924.8	1824.7	1813.6	1796.9	1802.5
35°	9245.9	7933.0	4956.8	2993.0	2175.2	1913.7	1808.0	1741.3	1741.3	1741.3	1758.0
37.5°	9924.6	8283.5	4667.5	2675.9	2013.9	1796.9	1707.9	1685.6	1674.5	1691.2	1702.3
40°	10798.0	8706.3	4433.8	2425.5	1874.8	1719.0	1641.1	1630.0	1624.4	1618.9	1630.0
42.5°	11754.9	9245.9	4233.5	2230.8	1774.6	1635.6	1579.9	1568.8	1546.6	1557.7	1574.4
45°	12706.2	9913.5	4055.5	2075.0	1707.9	1591.1	1513.2	1507.6	1496.5	1490.9	1518.7
47.5°	13763.2	10570.0	3999.9	1980.5	1657.8	1524.3	1468.7	1463.1	1429.7	1424.2	1446.4
50°	14586.5	11053.9	4061.1	1936.0	1585.5	1474.2	1435.3	1407.5	1379.7	1351.8	1351.8
52.5°	15154.0	11387.7	4105.6	1902.6	1546.6	1407.5	1357.4	1346.3	1318.5	1290.6	1279.5
55°	15665.8	11588.0	4116.7	1908.2	1507.6	1329.6	1296.2	1290.6	1274.0	1229.5	1218.3
57.5°	15838.2	11504.6	3894.2	1858.1	1485.4	1279.5	1235.0	1246.1	1223.9	1184.9	1179.4
60°	15821.6	10926.0	3387.9	1791.3	1435.3	1223.9	1168.3	1201.6	1201.6	1157.1	1151.6
62.5°	14859.1	9590.8	2770.4	1663.4	1379.7	1168.3	1107.1	1157.1	1173.8	1146.0	1140.4
65°	12862.0	7810.6	2314.3	1535.4	1296.2	1107.1	1045.9	1101.5	1129.3	1118.2	1112.6
67.5°	10642.3	5974.8	1924.8	1368.5	1190.5	1023.6	973.5	1012.5	1029.2	1034.7	1040.3
70°	7521.4	3977.6	1607.7	1184.9	1045.9	934.6	879.0	884.5	879.0	895.7	895.7
72.5°	4088.9	2292.0	1307.3	1006.9	901.2	812.2	773.3	745.5	745.5	739.9	739.9
73°	3499.2	2058.4	1246.1	979.1	862.3	790.0	745.5	723.2	723.2	717.6	712.1
75°	1963.8	1507.6	1068.1	840.0	745.5	689.8	656.4	623.1	617.5	617.5	617.5
77.5°	1290.6	1173.8	851.2	673.1	600.8	550.8	539.6	506.2	506.2	506.2	500.7
80°	968.0	923.5	656.4	511.8	461.7	422.8	411.7	389.4	383.9	361.6	367.2
82.5°	645.3	728.8	478.4	361.6	311.5	289.3	289.3	283.7	267.0	239.2	239.2
85°	511.8	595.3	344.9	222.5	183.6	155.8	161.3	155.8	150.2	122.4	116.8
87.5°	94.6	239.2	100.1	61.2	44.5	27.8	27.8	16.7	11.1	0.0	0.0
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)