

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: P481465

Luminaire Tested: **IFLD-L-SA8D-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481465
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

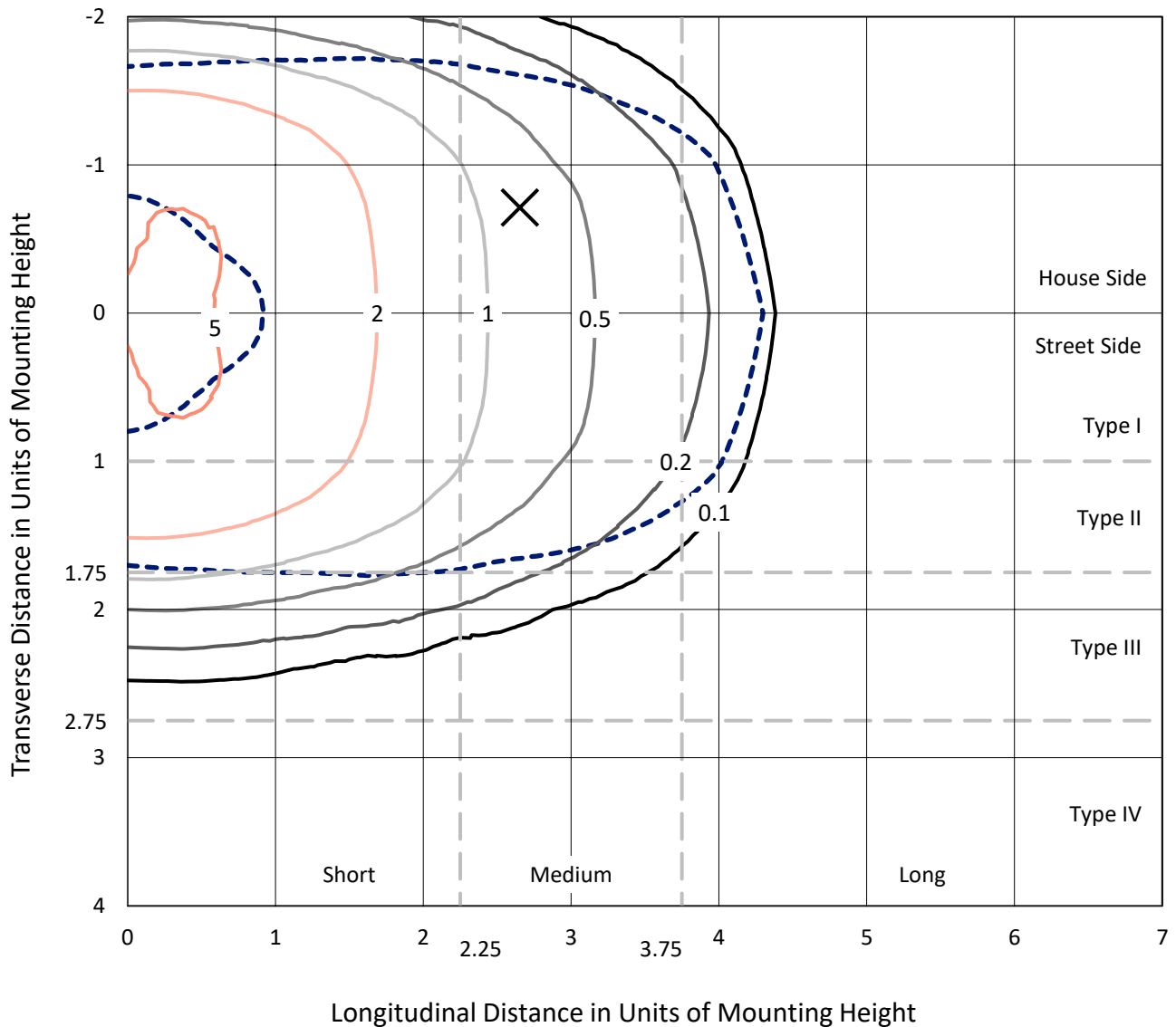
Lumens per Lamp: N/A
Luminaire Lumens: 45627.2 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

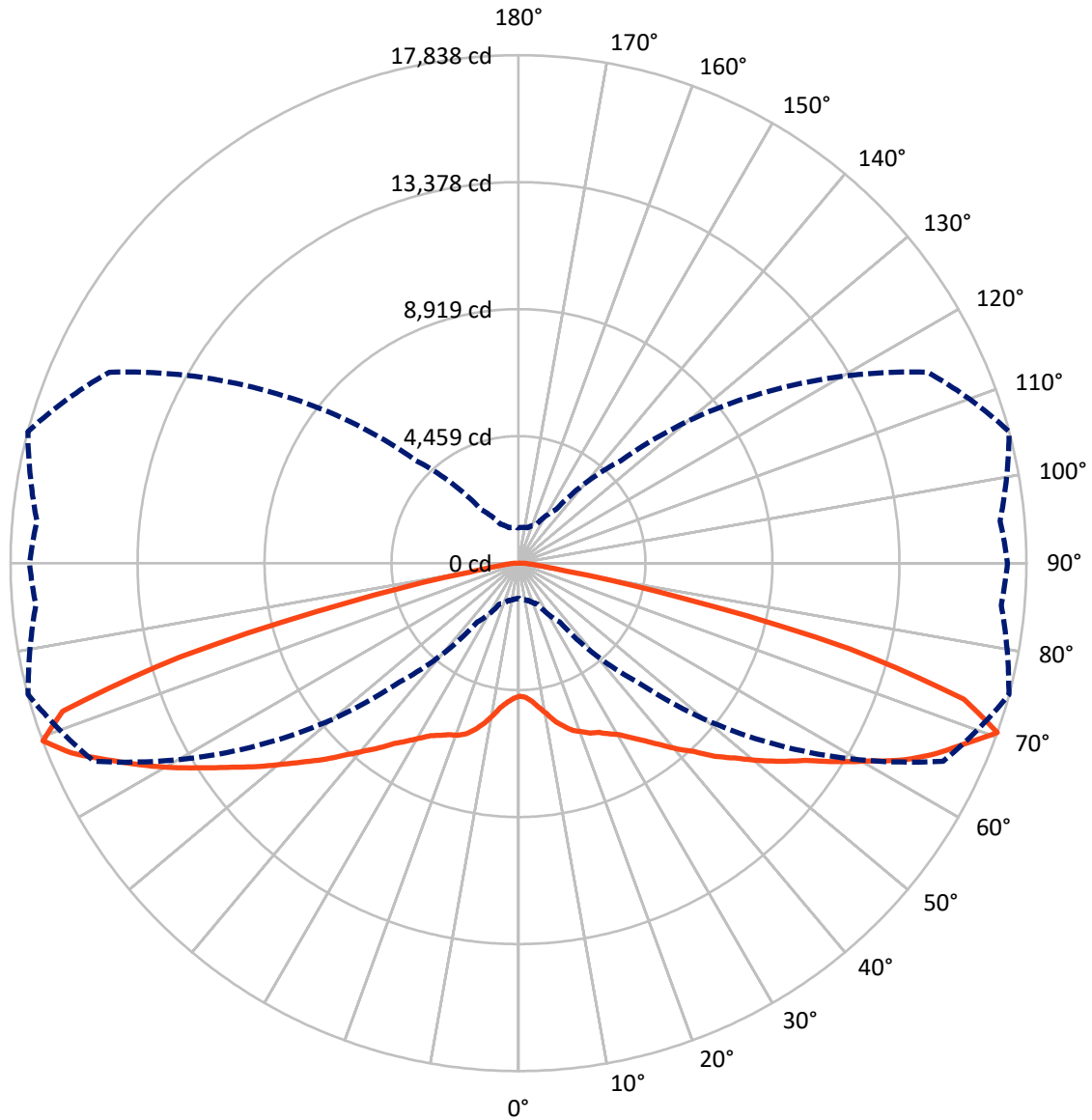
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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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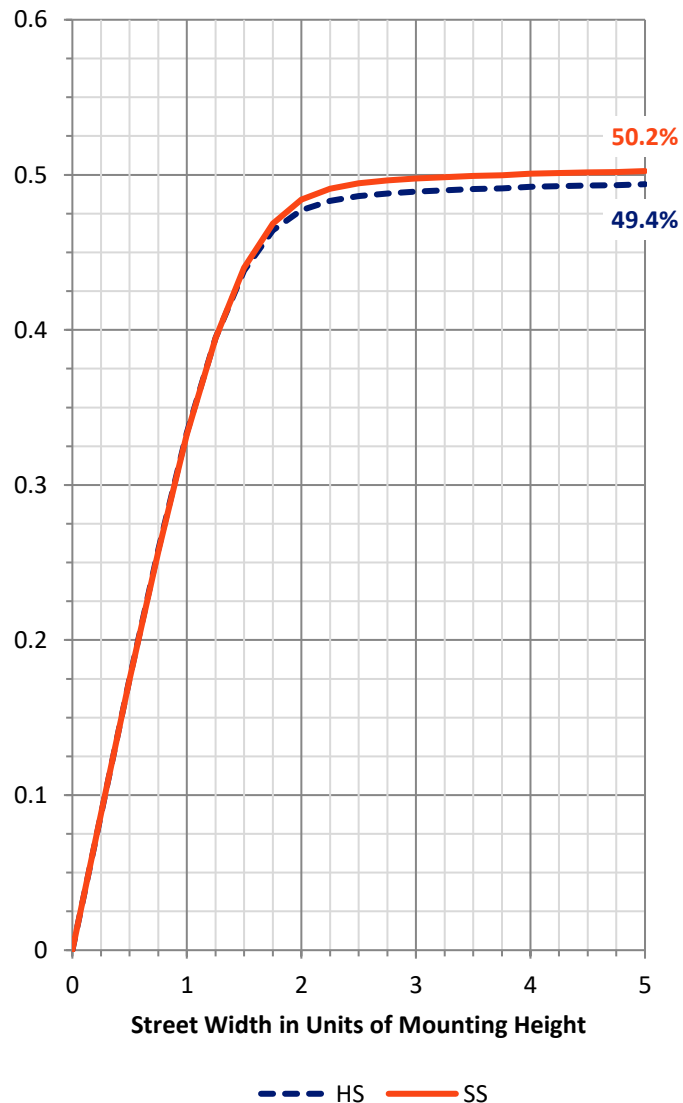
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22651.3	0.0	22651.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	22975.9	0.0	22975.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	45627.2	0.0	45627.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	1.0
10°-20°	1583.4	3.5
20°-30°	3066.0	6.7
30°-40°	5185.9	11.4
40°-50°	8273.1	18.1
50°-60°	11324.1	24.8
60°-70°	10673.7	23.4
70°-80°	4702.1	10.3
80°-90°	353.8	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°	45627.2	100.0
0°-180°	45627.2	100.0

Coefficient of Utilization



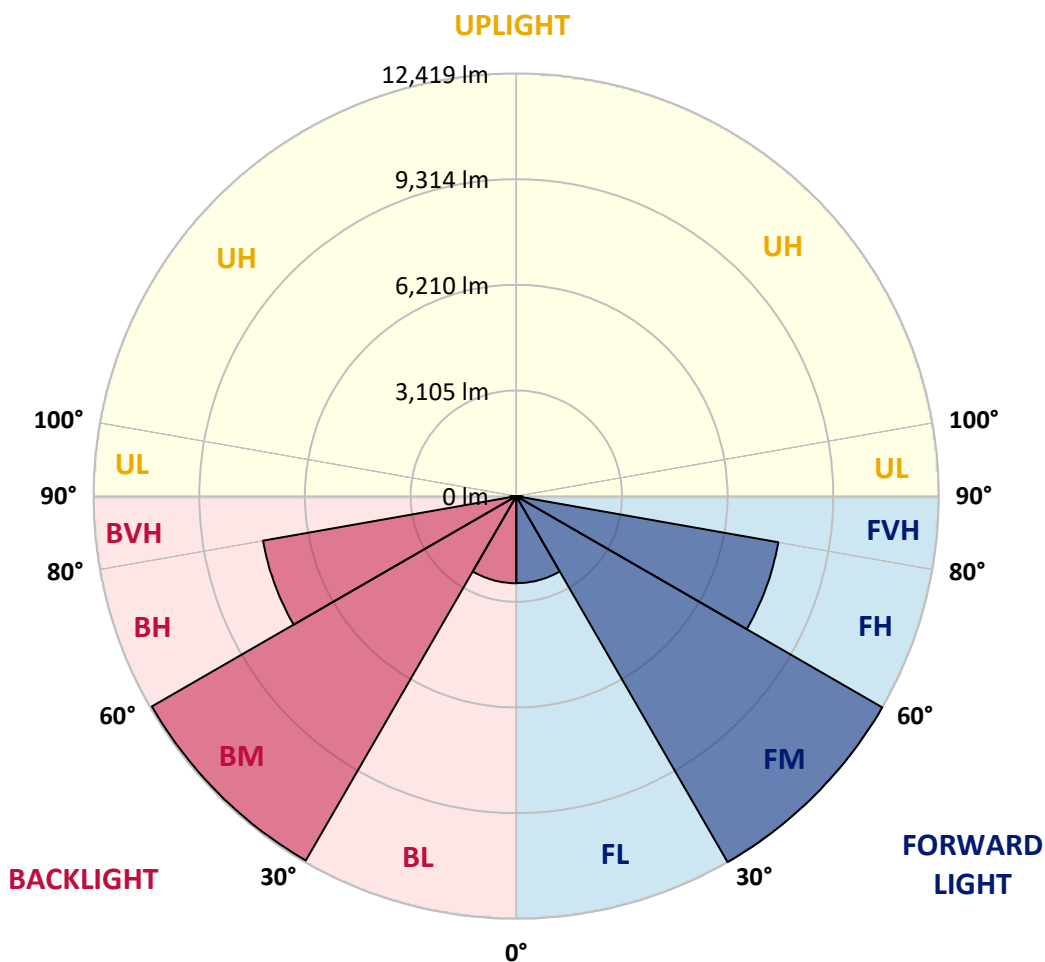
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2555.9	5.6			
FM (30°-60°)	12419.3	27.2			
FH (60°-80°)	7820.0	17.1			G4/12000
FVH (80°-90°)	180.7	0.4			G2/225
BL (0°-30°)	2558.6	5.6	B4/5000		
BM (30°-60°)	12363.8	27.1	B5		
BH (60°-80°)	7555.8	16.6	B5		G5
BVH (80°-90°)	173.1	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°	4672.2	4672.2	4672.2	4672.2	4672.2	4672.2	4672.2	4672.2	4672.2	4672.2	4672.2
2.5°	4642.7	4642.7	4637.8	4662.3	4686.9	4696.8	4716.4	4721.4	4750.9	4726.3	4775.5
5°	4627.9	4623.0	4662.3	4721.4	4721.4	4785.3	4824.6	4878.7	4893.5	4923.0	4932.8
7.5°	4731.2	4721.4	4701.7	4765.6	4819.7	4918.1	4972.2	5065.6	5100.1	5139.4	5183.7
10°	4795.1	4795.1	4775.5	4888.6	4937.8	5070.5	5188.6	5282.0	5414.8	5459.1	5464.0
12.5°	4805.0	4819.7	4878.7	5026.3	5164.0	5336.1	5424.6	5601.7	5734.5	5818.1	5847.6
15°	4952.5	4923.0	4986.9	5188.6	5390.2	5542.7	5700.1	5827.9	6019.7	6127.9	6196.8
17.5°	5085.3	5055.8	5173.8	5414.8	5621.4	5857.4	5995.1	6132.9	6270.6	6368.9	6373.8
20°	5296.8	5321.4	5424.6	5685.3	5955.8	6162.4	6319.7	6344.3	6413.2	6555.8	6531.2
22.5°	5557.4	5537.8	5754.2	6039.4	6334.5	6506.6	6595.2	6531.2	6496.8	6649.3	6683.7
25°	5818.1	5877.1	6073.8	6339.4	6693.5	6924.7	6949.3	6772.2	6644.3	6698.4	6683.7
27.5°	6216.5	6226.3	6432.9	6747.6	7106.6	7308.3	7293.5	7042.7	6796.8	6801.7	6811.5
30°	6727.9	6678.8	6905.0	7190.2	7544.3	7726.3	7750.9	7391.9	7062.4	6964.0	6988.6
32.5°	7219.7	7278.8	7475.5	7800.1	8060.7	8164.0	8109.9	7790.2	7362.4	7229.6	7244.3
35°	7849.3	7839.4	8109.9	8385.3	8582.1	8601.7	8557.5	8090.2	7687.0	7514.8	7446.0
37.5°	8523.0	8611.6	8788.6	9014.8	9221.4	9231.2	8990.3	8616.5	8119.8	7834.5	7918.1
40°	9275.5	9373.9	9501.7	9831.3	9983.7	9826.3	9580.4	9073.9	8557.5	8306.6	8346.0
42.5°	9939.4	9983.7	10244.4	10632.9	10706.7	10637.8	10273.9	9659.1	9059.1	8783.7	8803.4
45°	10549.3	10608.3	10947.7	11296.8	11469.0	11350.9	10928.0	10342.7	9644.4	9408.3	9314.9
47.5°	11110.0	11228.0	11557.5	11916.5	12182.1	12191.9	11670.6	10962.4	10224.7	9914.9	9909.9
50°	11488.6	11660.8	11985.4	12393.6	12782.1	12934.6	12413.2	11650.9	10859.1	10529.6	10495.2
52.5°	11695.2	11872.3	12196.9	12831.3	13264.1	13500.1	13254.2	12295.2	11601.8	11257.5	11203.4
55°	11444.4	11562.4	12093.6	12983.7	13652.6	14041.1	13878.8	13185.4	12339.5	12059.1	12108.3
57.5°	10377.2	10623.1	11277.2	12388.7	13642.8	14596.9	14582.1	14026.4	13190.3	12924.7	12934.6
60°	8542.7	8749.3	9555.8	11110.0	13091.9	14823.1	15344.4	14842.8	14144.4	13834.6	13824.7
62.5°	6029.6	6290.2	7224.7	8921.4	11469.0	14508.4	16219.8	15870.7	15078.8	14852.6	14936.2
65°	3373.8	3531.2	4396.8	5931.2	8739.4	12777.2	16377.2	16937.9	16028.0	15683.8	15698.5
67.5°	1804.9	1864.0	2267.2	3113.1	5346.0	9850.9	14788.7	17552.6	17055.9	16460.8	16367.4
70°	1239.4	1259.0	1362.3	1593.5	2527.9	5891.9	11154.2	16455.9	17828.1	17016.6	17174.0
72.5°	1047.6	1037.7	1062.3	1086.9	1323.0	2636.1	6546.0	12664.1	16829.7	16524.8	16465.7
75°	909.8	904.9	914.8	890.2	919.7	1160.7	2896.8	7893.5	12319.8	13751.0	13972.3
77.5°	752.5	757.4	762.3	737.7	727.9	767.2	1165.6	3467.2	6064.0	6693.5	7219.7
80°	570.5	580.3	619.7	595.1	555.7	560.7	688.5	1160.7	1741.0	1578.7	1627.9
82.5°	388.5	393.4	477.1	447.5	418.0	378.7	442.6	600.0	678.7	516.4	452.5
85°	275.4	270.5	309.8	285.2	265.6	191.8	265.6	339.3	408.2	255.7	231.1
87.5°	63.9	63.9	127.9	103.3	98.4	78.7	103.3	132.8	177.1	113.1	103.3
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°	4672.2	4672.2	4672.2	4672.2	4672.2	4672.2	4672.2	4672.2	4672.2	4672.2
2.5°	4760.7	4716.4	4716.4	4706.6	4667.3	4657.4	4623.0	4632.8	4608.2	4583.7
5°	4927.9	4868.9	4868.9	4785.3	4706.6	4696.8	4657.4	4657.4	4618.1	4627.9
7.5°	5159.1	5105.0	5016.4	4942.7	4834.5	4790.2	4716.4	4706.6	4696.8	4677.1
10°	5434.5	5365.6	5277.1	5124.6	5036.1	4952.5	4878.7	4775.5	4750.9	4755.8
12.5°	5808.3	5700.1	5508.3	5375.5	5262.4	5154.2	5046.0	4893.5	4859.1	4873.8
15°	6073.8	5936.1	5744.3	5695.1	5542.7	5409.9	5232.8	5060.7	5001.7	4986.9
17.5°	6290.2	6177.1	6064.0	5990.2	5867.3	5705.0	5459.1	5262.4	5129.6	5114.8
20°	6467.3	6319.7	6295.1	6339.4	6187.0	6078.8	5778.7	5537.8	5360.7	5286.9
22.5°	6575.5	6482.0	6550.9	6590.2	6580.4	6398.4	6088.6	5808.3	5586.9	5518.1
25°	6693.5	6585.3	6831.2	6964.0	6998.4	6698.4	6457.4	6088.6	5872.2	5827.9
27.5°	6752.5	6791.9	7077.1	7357.5	7332.9	7101.7	6777.1	6447.6	6275.5	6196.8
30°	6924.7	6988.6	7421.4	7736.1	7741.1	7514.8	7268.9	6895.2	6703.3	6668.9
32.5°	7234.5	7313.2	7775.5	8109.9	8168.9	7996.8	7750.9	7519.8	7323.0	7244.3
35°	7470.6	7672.2	8193.5	8498.5	8655.8	8552.5	8414.8	8173.9	7967.3	7898.4
37.5°	7809.9	8090.2	8591.9	9005.0	9182.1	9172.2	9068.9	8808.3	8636.2	8577.1
40°	8296.8	8577.1	9034.5	9580.4	9909.9	9895.2	9836.2	9634.5	9378.8	9349.3
42.5°	8813.2	9044.4	9639.4	10264.0	10736.2	10687.0	10529.6	10293.6	10116.5	10077.2
45°	9314.9	9673.9	10224.7	11026.3	11380.4	11503.4	11316.5	10913.2	10711.6	10687.0
47.5°	9944.4	10229.6	10918.1	11636.2	12162.4	12182.1	11862.4	11488.6	11119.8	11198.5
50°	10505.0	10883.7	11582.1	12369.0	12998.5	12772.3	12364.1	11896.8	11631.3	11528.0
52.5°	11105.0	11567.3	12378.8	13180.5	13529.7	13303.4	12639.5	12118.2	11714.9	11670.6
55°	11980.5	12221.4	13283.7	13898.5	14011.6	13534.6	12555.9	11818.2	11296.8	11169.0
57.5°	12870.6	13151.0	14080.5	14611.6	14493.6	13406.7	12014.9	10873.9	10190.3	10008.3
60°	13770.6	14114.9	14896.9	15383.8	14773.9	12526.4	10485.4	9014.8	8218.1	8055.8
62.5°	14773.9	15221.5	15919.8	16092.0	13942.8	10785.4	8321.4	6506.6	5700.1	5429.6
65°	15664.1	16121.5	16982.1	15944.4	12177.2	8046.0	5380.4	3718.1	3123.0	2906.6
67.5°	16396.9	16913.3	17336.2	14110.0	8916.5	4711.5	2803.3	1957.4	1736.1	1657.4
70°	16977.2	17837.9	15860.8	10372.2	5095.1	2296.7	1514.8	1288.5	1259.0	1239.4
72.5°	16470.7	16357.6	11842.7	5985.3	2232.8	1263.9	1096.7	1062.3	1057.4	1062.3
75°	13470.6	12014.9	7082.0	2601.7	1121.3	914.8	909.8	895.1	919.7	919.7
77.5°	6536.1	5714.8	2960.7	1116.4	737.7	718.0	742.6	742.6	742.6	742.6
80°	1514.8	1677.1	1057.4	678.7	536.1	536.1	590.2	595.1	570.5	560.7
82.5°	516.4	688.5	580.3	427.9	354.1	398.4	447.5	457.4	378.7	383.6
85°	255.7	403.3	314.8	245.9	182.0	245.9	290.2	304.9	260.7	250.8
87.5°	118.0	177.1	118.0	83.6	63.9	88.5	83.6	68.9	39.3	39.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)