

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: P480459

Luminaire Tested: **IFLD-S-SA3C-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480459
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

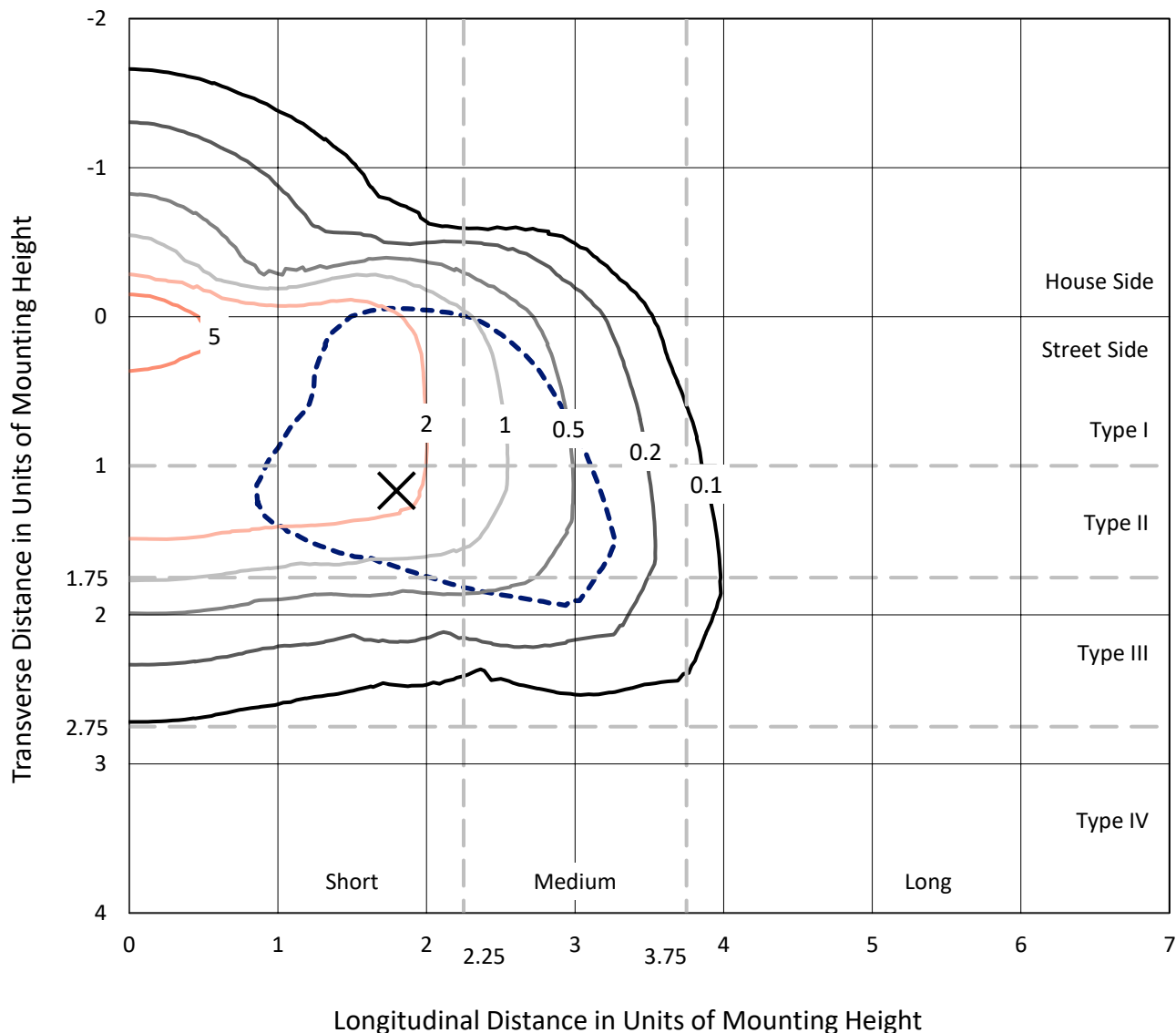
Lumens per Lamp: N/A
Luminaire Lumens: 20614.5 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

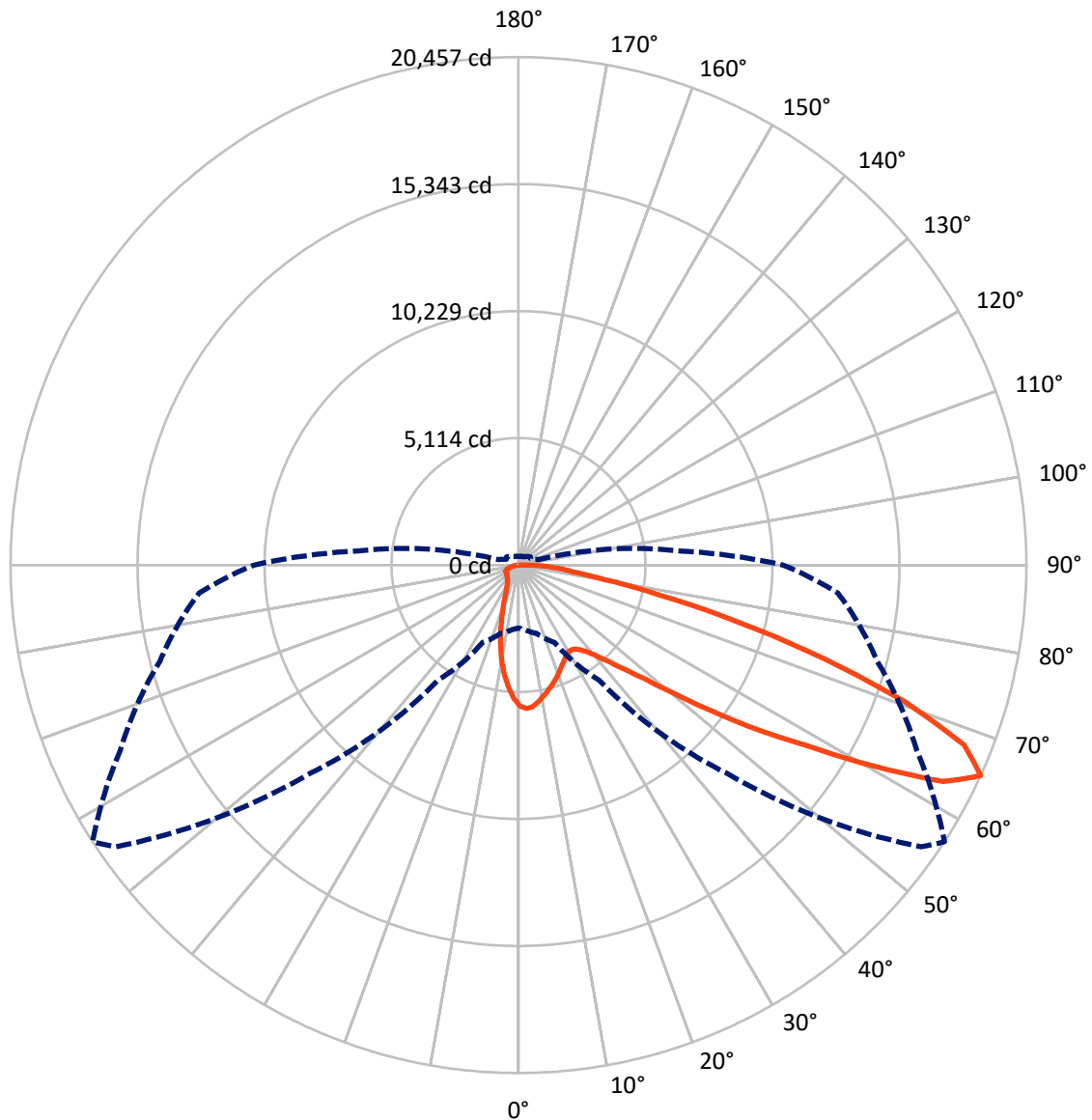
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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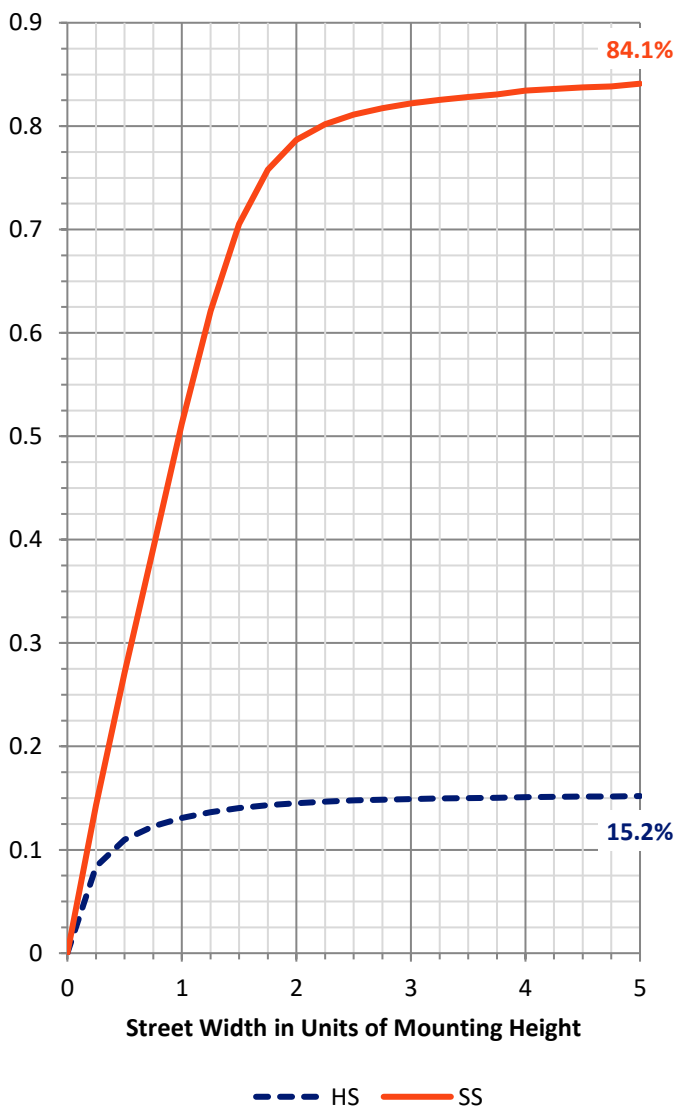
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3161.4	0.0	3161.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17453.0	0.0	17453.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	20614.5	0.0	20614.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.7	2.3
10°-20°	1021.7	5.0
20°-30°	1320.9	6.4
30°-40°	1777.5	8.6
40°-50°	2834.3	13.7
50°-60°	5006.1	24.3
60°-70°	5507.3	26.7
70°-80°	2303.8	11.2
80°-90°	368.2	1.8
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°	20614.5	100.0
0°-180°	20614.5	100.0

Coefficient of Utilization



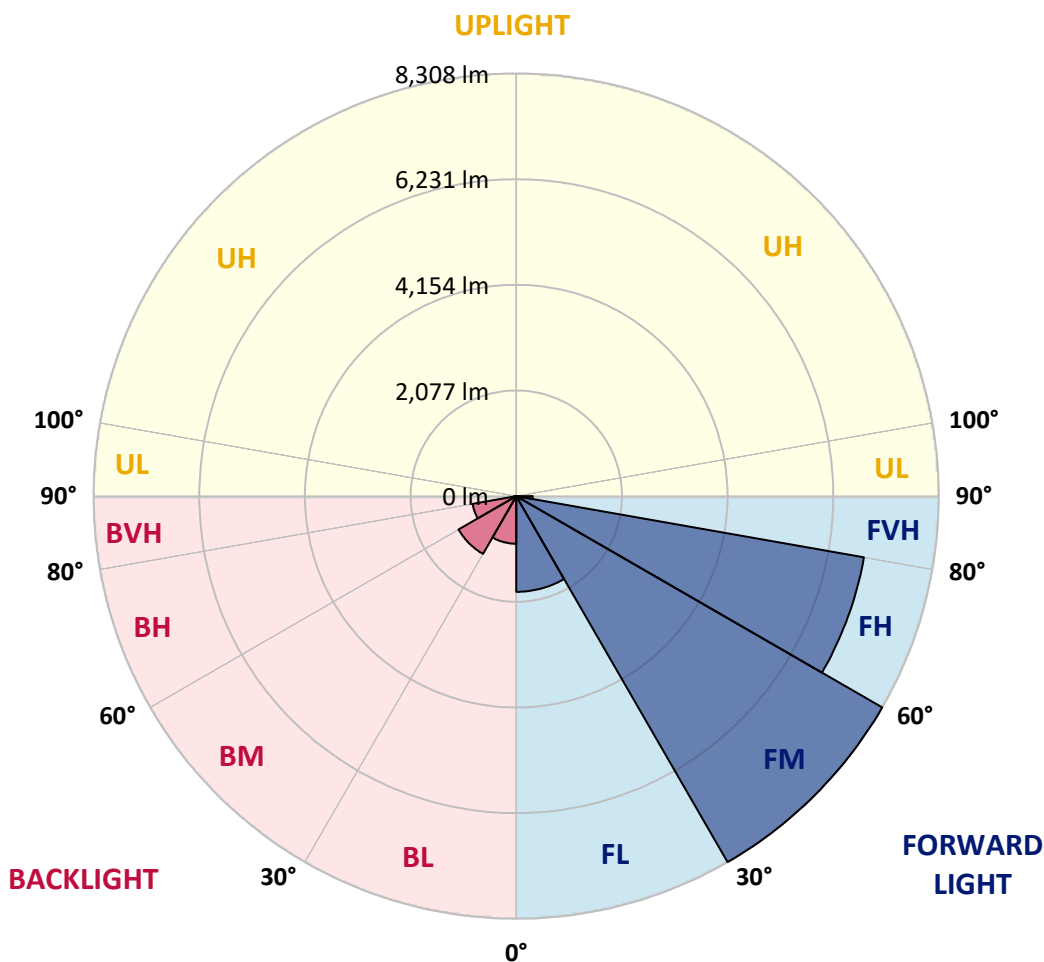
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1881.0	9.1			
FM (30°-60°)	8307.6	40.3			
FH (60°-80°)	6939.4	33.7			G3/7500
FVH (80°-90°)	325.0	1.6			G3/500
BL (0°-30°)	936.3	4.5	B2/1000		
BM (30°-60°)	1310.3	6.4	B2/2500		
BH (60°-80°)	871.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	43.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7
2.5°	5821.8	5831.0	5831.0	5849.6	5787.0	5817.1	5812.5	5784.7	5793.9	5745.2	5696.5
5°	5657.1	5650.1	5687.2	5691.9	5740.6	5754.5	5766.1	5747.5	5752.2	5645.5	5599.1
7.5°	5235.0	5232.6	5295.3	5348.6	5450.7	5545.8	5608.4	5589.8	5615.3	5548.1	5439.1
10°	4734.0	4787.3	4852.2	4905.6	5093.5	5214.1	5376.4	5392.7	5490.1	5473.9	5276.7
12.5°	4358.2	4381.4	4430.1	4583.2	4754.8	4954.3	5186.2	5207.1	5302.2	5348.6	5177.0
15°	4049.7	4070.6	4133.2	4246.9	4439.4	4676.0	4970.5	5023.9	5214.1	5230.3	5047.1
17.5°	3824.7	3841.0	3882.7	3996.4	4154.1	4457.9	4736.3	4831.4	5081.9	5160.7	4912.6
20°	3736.6	3701.8	3725.0	3796.9	3954.6	4188.9	4548.4	4631.9	4952.0	5107.4	4785.0
22.5°	3697.2	3667.0	3680.9	3676.3	3801.5	3968.5	4346.6	4434.7	4829.1	5044.8	4671.3
25°	3727.3	3727.3	3713.4	3701.8	3715.7	3824.7	4128.6	4265.4	4664.4	4991.4	4555.4
27.5°	3889.7	3827.1	3834.0	3785.3	3771.4	3771.4	4031.2	4112.3	4611.0	4961.3	4460.3
30°	3994.1	4024.2	4026.5	3954.6	3882.7	3752.8	3940.7	4019.6	4567.0	4998.4	4404.6
32.5°	4260.8	4246.9	4207.4	4193.5	4086.8	3940.7	3984.8	4038.1	4541.4	5081.9	4420.8
35°	4527.5	4520.6	4522.9	4515.9	4404.6	4188.9	4103.1	4175.0	4587.8	5228.0	4476.5
37.5°	4803.5	4822.1	4901.0	4901.0	4782.7	4548.4	4434.7	4413.9	4757.2	5466.9	4608.7
40°	5079.6	5125.9	5225.7	5383.4	5216.4	4998.4	4815.1	4782.7	4961.3	5787.0	4926.5
42.5°	5344.0	5420.5	5617.7	5851.9	5796.3	5578.2	5334.7	5297.6	5381.1	6262.5	5369.5
45°	5682.6	5747.5	6058.4	6417.9	6494.4	6301.9	6016.6	5986.4	5981.8	6958.3	5979.5
47.5°	6197.5	6267.1	6577.9	6939.7	7176.3	7206.5	6886.4	6853.9	6742.6	7897.7	6872.5
50°	6842.3	6956.0	7218.1	7640.2	7983.5	8305.9	8215.4	8120.3	7902.3	8990.1	8004.4
52.5°	7313.2	7452.3	7807.2	8347.6	8953.0	9465.6	9790.3	9790.3	9289.3	10189.3	9365.9
55°	7438.4	7521.9	7969.6	8751.2	9788.0	11084.6	11764.1	11713.1	10940.7	11451.0	10950.0
57.5°	6939.7	7048.7	7591.5	8410.3	10226.4	12599.1	13724.1	13735.7	12745.3	12916.9	12513.3
60°	5566.6	5601.4	6241.6	7336.4	9804.2	13819.2	16400.7	16444.8	14798.0	14222.7	13308.9
62.5°	3847.9	3959.3	4441.7	5402.0	8122.6	13682.3	18982.2	19200.2	16442.4	14911.6	13434.1
65°	2532.8	2600.1	2857.5	3442.0	5654.8	11859.2	19784.7	20457.4	17699.6	14951.0	12909.9
67.5°	1837.0	1848.6	1925.1	2226.7	3398.0	8528.5	18414.0	19362.6	18170.4	14621.7	11680.6
70°	1484.4	1493.7	1521.5	1714.1	2194.2	5337.0	15018.3	16505.1	16757.9	13060.7	9407.6
72.5°	1206.1	1217.7	1252.5	1433.4	1809.2	2968.9	10982.5	12794.0	13631.3	9662.7	6253.2
75°	948.6	957.9	1041.4	1220.0	1700.1	2038.8	7285.3	9059.7	9173.3	5647.8	2927.1
77.5°	649.4	665.7	767.7	1034.5	1600.4	1783.6	4541.4	5803.2	5207.1	2210.4	1006.6
80°	412.9	436.1	496.4	784.0	1414.9	1702.5	2825.1	3465.2	2280.0	756.1	484.8
82.5°	243.5	266.7	327.0	508.0	1111.0	1579.5	1990.1	2168.7	1069.3	387.3	292.2
85°	134.5	150.8	197.2	306.2	651.8	1403.3	1593.4	1556.3	612.3	206.4	183.2
87.5°	44.1	51.0	71.9	122.9	269.1	661.0	955.6	897.6	317.8	95.1	71.9
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°	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7	5668.7
2.5°	5664.0	5657.1	5552.7	5473.9	5339.3	5228.0	5183.9	5123.6	5121.3	5077.2	5065.6
5°	5527.2	5455.3	5295.3	5142.2	4903.3	4743.2	4597.1	4495.1	4453.3	4362.8	4342.0
7.5°	5350.9	5255.8	5010.0	4722.4	4441.7	4191.2	3963.9	3736.6	3609.0	3565.0	3516.3
10°	5167.7	5000.7	4636.5	4314.1	3922.2	3537.1	3179.9	2859.9	2685.9	2563.0	2509.6
12.5°	5021.6	4798.9	4335.0	3852.6	3335.3	2820.4	2405.2	2068.9	1871.8	1779.0	1737.3
15°	4856.9	4562.3	4005.7	3395.6	2750.8	2166.3	1760.4	1496.0	1417.2	1373.1	1366.1
17.5°	4682.9	4342.0	3648.5	2945.7	2180.3	1630.6	1368.5	1261.8	1227.0	1208.4	1199.1
20°	4520.6	4144.8	3282.0	2444.7	1707.1	1308.2	1185.2	1129.6	1127.2	1136.5	1134.2
22.5°	4290.9	3887.4	2920.2	1980.8	1363.8	1138.8	1060.0	1046.1	1060.0	1071.6	1076.2
25°	4161.1	3676.3	2516.6	1572.6	1127.2	1011.3	985.8	981.1	1002.0	1015.9	1013.6
27.5°	4026.5	3458.3	2140.8	1259.5	988.1	920.8	916.2	920.8	941.7	962.6	960.2
30°	3922.2	3284.3	1788.3	1053.0	881.4	855.9	851.2	855.9	867.5	869.8	869.8
32.5°	3836.3	3077.9	1489.1	913.9	816.4	795.6	800.2	797.9	800.2	802.5	804.8
35°	3785.3	2955.0	1243.2	828.0	763.1	746.9	744.5	737.6	739.9	742.2	739.9
37.5°	3894.3	2894.6	1048.4	767.7	726.0	712.1	707.4	702.8	695.8	695.8	695.8
40°	4059.0	2862.2	930.1	728.3	698.1	681.9	668.0	663.4	663.4	665.7	668.0
42.5°	4386.0	2915.5	848.9	698.1	663.4	644.8	630.9	633.2	640.2	647.1	642.5
45°	4859.2	3077.9	811.8	675.0	642.5	617.0	607.7	605.4	612.3	623.9	633.2
47.5°	5478.5	3330.7	797.9	654.1	628.6	593.8	582.2	589.1	598.4	614.6	607.7
50°	6492.1	3899.0	809.5	635.5	607.7	582.2	568.3	561.3	568.3	579.9	584.5
52.5°	7816.5	4931.1	853.6	626.2	593.8	572.9	549.7	538.1	545.1	554.3	554.3
55°	9400.6	6341.3	976.5	614.6	570.6	559.0	533.5	510.3	514.9	514.9	512.6
57.5°	10796.9	7405.9	1122.6	598.4	556.7	540.4	508.0	480.1	475.5	477.8	480.1
60°	11423.2	7688.9	1192.2	593.8	556.7	517.2	473.2	445.3	438.4	433.7	433.7
62.5°	11314.2	7199.5	1050.7	572.9	570.6	498.7	440.7	410.5	401.3	392.0	394.3
65°	10655.5	6501.4	828.0	545.1	572.9	487.1	408.2	378.1	361.8	350.2	347.9
67.5°	9451.7	5550.4	656.4	524.2	549.7	466.2	380.4	345.6	331.7	320.1	315.4
70°	7394.3	4351.2	570.6	496.4	494.0	415.2	347.9	317.8	296.9	283.0	283.0
72.5°	4794.3	2750.8	489.4	440.7	426.8	347.9	301.5	283.0	266.7	255.1	255.1
75°	2171.0	1278.0	394.3	368.8	347.9	278.3	255.1	245.9	231.9	220.3	220.3
77.5°	779.3	545.1	294.6	289.9	259.8	215.7	206.4	199.5	190.2	178.6	178.6
80°	436.1	345.6	220.3	211.1	180.9	160.0	148.4	148.4	143.8	136.8	134.5
82.5°	276.0	225.0	162.4	141.5	118.3	106.7	102.1	99.7	97.4	88.1	85.8
85°	174.0	153.1	106.7	83.5	69.6	53.3	51.0	48.7	44.1	39.4	39.4
87.5°	78.9	88.1	41.7	25.5	18.6	11.6	7.0	2.3	0.0	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)