

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: P480617

Luminaire Tested: **IFLD-S-SA3E-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480617
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

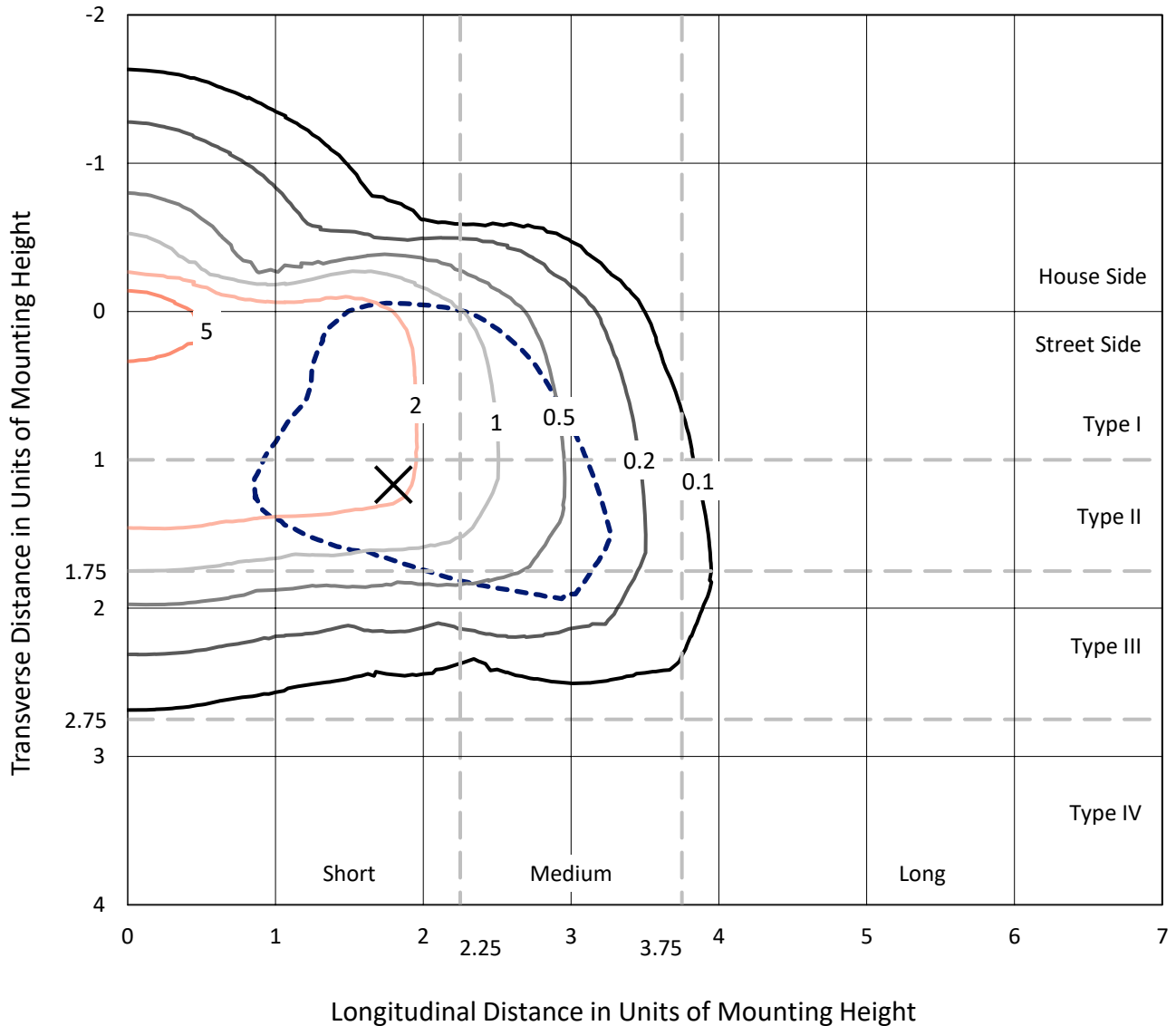
Lumens per Lamp: N/A
Luminaire Lumens: 19564.9 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 232.1
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

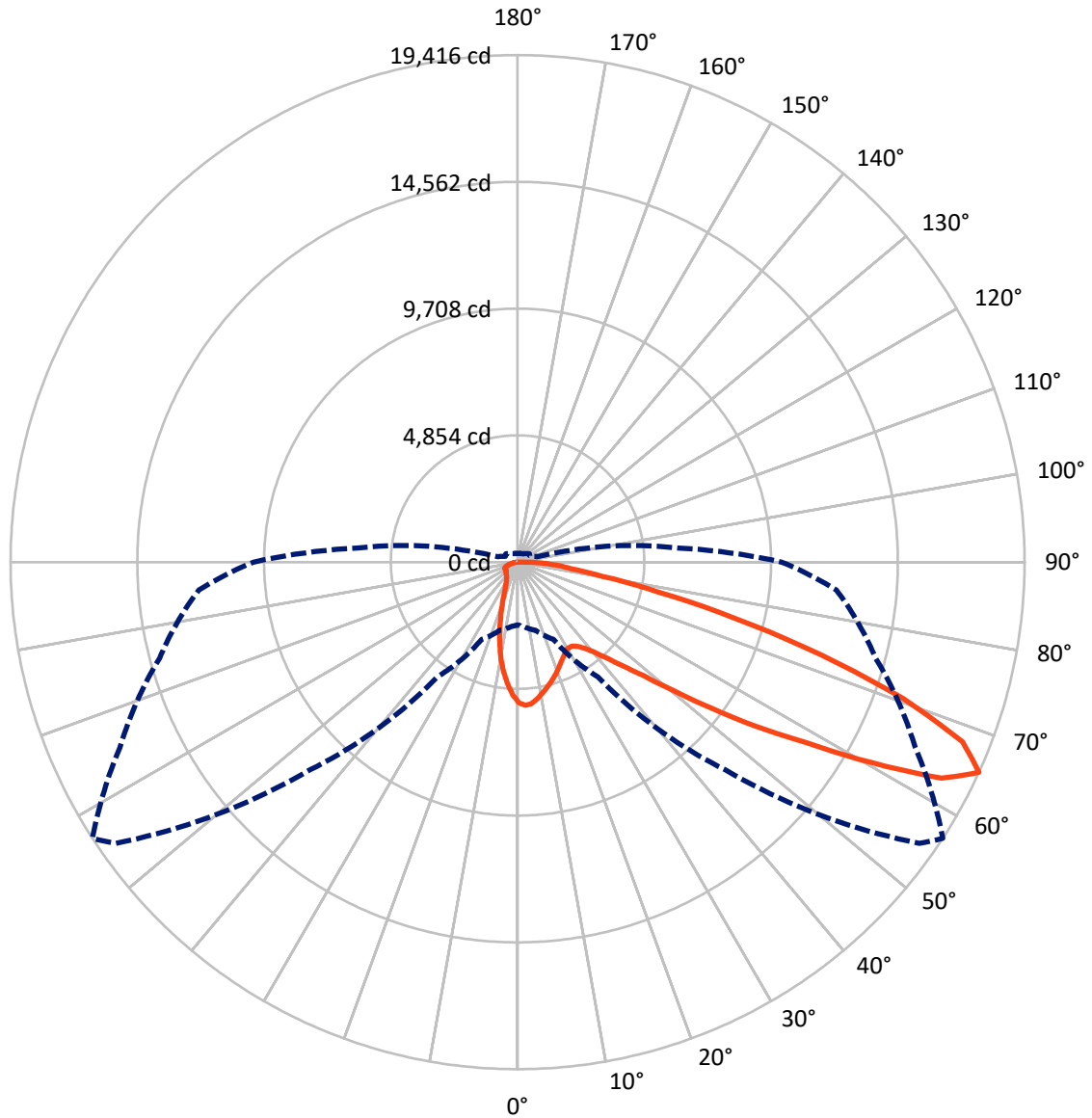
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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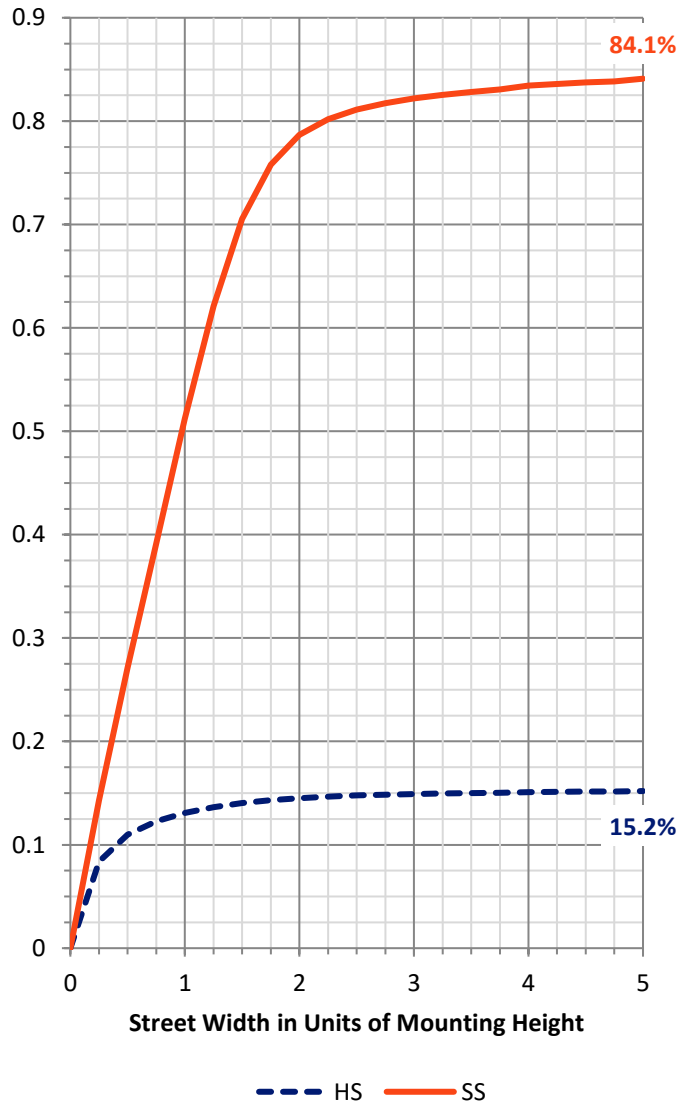
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3000.5	0.0	3000.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	16564.4	0.0	16564.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	19564.9	0.0	19564.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.5	2.3
10°-20°	969.6	5.0
20°-30°	1253.6	6.4
30°-40°	1687.0	8.6
40°-50°	2690.0	13.7
50°-60°	4751.2	24.3
60°-70°	5226.9	26.7
70°-80°	2186.5	11.2
80°-90°	349.5	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°	19564.9	100.0
0°-180°	19564.9	100.0

Coefficient of Utilization



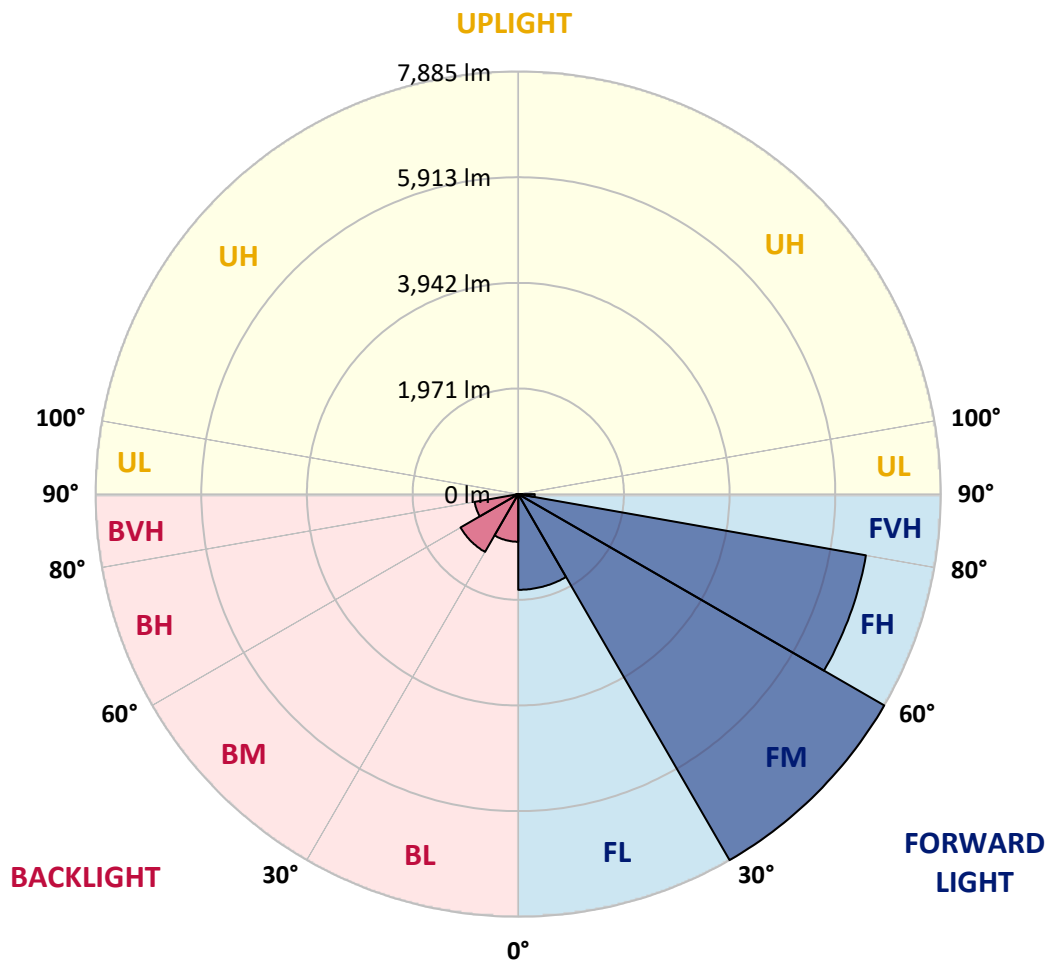
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1785.2	9.1			
FM (30°-60°)	7884.6	40.3			
FH (60°-80°)	6586.1	33.7			G3/7500
FVH (80°-90°)	308.5	1.6			G3/500
BL (0°-30°)	888.6	4.5	B2/1000		
BM (30°-60°)	1243.6	6.4	B2/2500		
BH (60°-80°)	827.3	4.2	B2/1000		G2/1000
BVH (80°-90°)	41.0	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°	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1
2.5°	5525.4	5534.2	5534.2	5551.8	5492.3	5521.0	5516.6	5490.1	5498.9	5452.7	5406.5
5°	5369.1	5362.5	5397.7	5402.1	5448.3	5461.5	5472.5	5454.9	5459.3	5358.1	5314.0
7.5°	4968.4	4966.2	5025.7	5076.3	5173.1	5263.4	5322.8	5305.2	5329.4	5265.6	5162.1
10°	4492.9	4543.6	4605.2	4655.8	4834.1	4948.6	5102.7	5118.1	5210.6	5195.2	5008.0
12.5°	4136.3	4158.3	4204.6	4349.8	4512.7	4702.1	4922.2	4942.0	5032.3	5076.3	4913.4
15°	3843.5	3863.3	3922.8	4030.7	4213.4	4437.9	4717.5	4768.1	4948.6	4964.0	4790.1
17.5°	3630.0	3645.4	3685.0	3792.9	3942.6	4231.0	4495.1	4585.4	4823.1	4898.0	4662.4
20°	3546.4	3513.3	3535.4	3603.6	3753.3	3975.6	4316.8	4396.1	4699.9	4847.3	4541.4
22.5°	3508.9	3480.3	3493.5	3489.1	3608.0	3766.5	4125.3	4209.0	4583.2	4787.9	4433.5
25°	3537.6	3537.6	3524.3	3513.3	3526.5	3630.0	3918.4	4048.3	4426.9	4737.3	4323.4
27.5°	3691.6	3632.2	3638.8	3592.6	3579.4	3579.4	3825.9	3903.0	4376.3	4708.7	4233.2
30°	3790.7	3819.3	3821.5	3753.3	3685.0	3561.8	3740.1	3814.9	4334.4	4743.9	4180.3
32.5°	4043.9	4030.7	3993.2	3980.0	3878.8	3740.1	3781.9	3832.5	4310.2	4823.1	4195.8
35°	4297.0	4290.4	4292.6	4286.0	4180.3	3975.6	3894.2	3962.4	4354.2	4961.8	4248.6
37.5°	4559.0	4576.6	4651.4	4651.4	4539.2	4316.8	4209.0	4189.1	4514.9	5188.6	4374.1
40°	4820.9	4865.0	4959.6	5109.3	4950.8	4743.9	4570.0	4539.2	4708.7	5492.3	4675.6
42.5°	5071.9	5144.5	5331.6	5554.0	5501.1	5294.2	5063.1	5027.9	5107.1	5943.6	5096.1
45°	5393.3	5454.9	5749.9	6091.1	6163.7	5981.0	5710.3	5681.7	5677.3	6604.0	5675.1
47.5°	5882.0	5948.0	6243.0	6586.4	6810.9	6839.6	6535.8	6505.0	6399.3	7495.6	6522.6
50°	6493.9	6601.8	6850.6	7251.2	7577.0	7883.0	7797.1	7706.9	7500.0	8532.4	7596.8
52.5°	6940.8	7072.9	7409.7	7922.6	8497.2	8983.7	9291.9	9291.9	8816.4	9670.5	8889.0
55°	7059.7	7138.9	7563.8	8305.7	9289.6	10520.2	11165.2	11116.8	10383.7	10868.0	10392.5
57.5°	6586.4	6689.9	7205.0	7982.1	9705.7	11957.7	13025.3	13036.3	12096.4	12259.3	11876.2
60°	5283.2	5316.2	5923.8	6962.8	9305.1	13115.6	15565.7	15607.5	14044.5	13498.6	12631.3
62.5°	3652.0	3757.7	4215.6	5126.9	7709.1	12985.7	18015.8	18222.7	15605.3	14152.4	12750.2
65°	2403.9	2467.7	2712.0	3266.8	5366.9	11255.4	18777.4	19415.8	16798.4	14189.8	12252.7
67.5°	1743.5	1754.5	1827.1	2113.3	3225.0	8094.3	17476.4	18376.8	17245.3	13877.2	11085.9
70°	1408.9	1417.7	1444.1	1626.8	2082.5	5065.3	14253.7	15664.7	15904.7	12395.7	8928.6
72.5°	1144.7	1155.7	1188.7	1360.4	1717.0	2817.7	10423.3	12142.6	12937.3	9170.8	5934.8
75°	900.3	909.2	988.4	1157.9	1613.6	1935.0	6914.4	8598.4	8706.3	5360.3	2778.1
77.5°	616.4	631.8	728.6	981.8	1518.9	1692.8	4310.2	5507.7	4942.0	2097.9	955.4
80°	391.8	413.9	471.1	744.1	1342.8	1615.8	2681.2	3288.8	2163.9	717.6	460.1
82.5°	231.1	253.2	310.4	482.1	1054.4	1499.1	1888.7	2058.3	1014.8	367.6	277.4
85°	127.7	143.1	187.1	290.6	618.6	1331.8	1512.3	1477.1	581.2	195.9	173.9
87.5°	41.8	48.4	68.2	116.7	255.4	627.4	907.0	851.9	301.6	90.3	68.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1	5380.1
2.5°	5375.7	5369.1	5270.0	5195.2	5067.5	4961.8	4920.0	4862.8	4860.6	4818.7	4807.7
5°	5245.8	5177.5	5025.7	4880.4	4653.6	4501.7	4363.1	4266.2	4226.6	4140.7	4120.9
7.5°	5078.5	4988.2	4754.9	4481.9	4215.6	3977.8	3762.1	3546.4	3425.3	3383.5	3337.2
10°	4904.6	4746.1	4400.5	4094.5	3722.5	3357.0	3018.0	2714.3	2549.2	2432.5	2381.8
12.5°	4765.9	4554.6	4114.3	3656.4	3165.5	2676.8	2282.8	1963.6	1776.5	1688.4	1648.8
15°	4609.6	4330.0	3801.7	3222.8	2610.8	2056.1	1670.8	1419.9	1345.0	1303.2	1296.6
17.5°	4444.5	4120.9	3462.7	2795.7	2069.3	1547.5	1298.8	1197.5	1164.5	1146.9	1138.1
20°	4290.4	3933.8	3114.9	2320.2	1620.2	1241.6	1124.9	1072.1	1069.9	1078.7	1076.5
22.5°	4072.5	3689.4	2771.5	1879.9	1294.4	1080.9	1006.0	992.8	1006.0	1017.0	1021.4
25°	3949.2	3489.1	2388.5	1492.5	1069.9	959.8	935.6	931.2	951.0	964.2	962.0
27.5°	3821.5	3282.2	2031.8	1195.3	937.8	873.9	869.5	873.9	893.7	913.6	911.4
30°	3722.5	3117.1	1697.2	999.4	836.5	812.3	807.9	812.3	823.3	825.5	825.5
32.5°	3641.0	2921.2	1413.3	867.3	774.9	755.1	759.5	757.3	759.5	761.7	763.9
35°	3592.6	2804.5	1179.9	785.9	724.2	708.8	706.6	700.0	702.2	704.4	702.2
37.5°	3696.0	2747.3	995.0	728.6	689.0	675.8	671.4	667.0	660.4	660.4	660.4
40°	3852.3	2716.5	882.7	691.2	662.6	647.2	634.0	629.6	629.6	631.8	634.0
42.5°	4162.7	2767.1	805.7	662.6	629.6	612.0	598.8	601.0	607.6	614.2	609.8
45°	4611.8	2921.2	770.5	640.6	609.8	585.6	576.8	574.5	581.2	592.2	601.0
47.5°	5199.6	3161.1	757.3	620.8	596.6	563.5	552.5	559.1	567.9	583.4	576.8
50°	6161.5	3700.5	768.3	603.2	576.8	552.5	539.3	532.7	539.3	550.3	554.7
52.5°	7418.5	4680.0	810.1	594.4	563.5	543.7	521.7	510.7	517.3	526.1	526.1
55°	8922.0	6018.5	926.8	583.4	541.5	530.5	506.3	484.3	488.7	488.7	486.5
57.5°	10247.2	7028.9	1065.4	567.9	528.3	512.9	482.1	455.7	451.3	453.5	455.7
60°	10841.6	7297.4	1131.5	563.5	528.3	490.9	449.1	422.7	416.1	411.7	411.7
62.5°	10738.1	6833.0	997.2	543.7	541.5	473.3	418.3	389.6	380.8	372.0	374.2
65°	10113.0	6170.4	785.9	517.3	543.7	462.3	387.4	358.8	343.4	332.4	330.2
67.5°	8970.5	5267.8	623.0	497.5	521.7	442.5	361.0	328.0	314.8	303.8	299.4
70°	7017.9	4129.7	541.5	471.1	468.9	394.0	330.2	301.6	281.8	268.6	268.6
72.5°	4550.2	2610.8	464.5	418.3	405.0	330.2	286.2	268.6	253.2	242.1	242.1
75°	2060.5	1212.9	374.2	350.0	330.2	264.2	242.1	233.3	220.1	209.1	209.1
77.5°	739.6	517.3	279.6	275.2	246.5	204.7	195.9	189.3	180.5	169.5	169.5
80°	413.9	328.0	209.1	200.3	171.7	151.9	140.9	140.9	136.5	129.9	127.7
82.5°	262.0	213.5	154.1	134.3	112.3	101.3	96.9	94.7	92.5	83.7	81.4
85°	165.1	145.3	101.3	79.2	66.0	50.6	48.4	46.2	41.8	37.4	37.4
87.5°	74.8	83.7	39.6	24.2	17.6	11.0	6.6	2.2	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)