

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: P480277

Luminaire Tested: **IFLD-S-SA6A-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480277
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

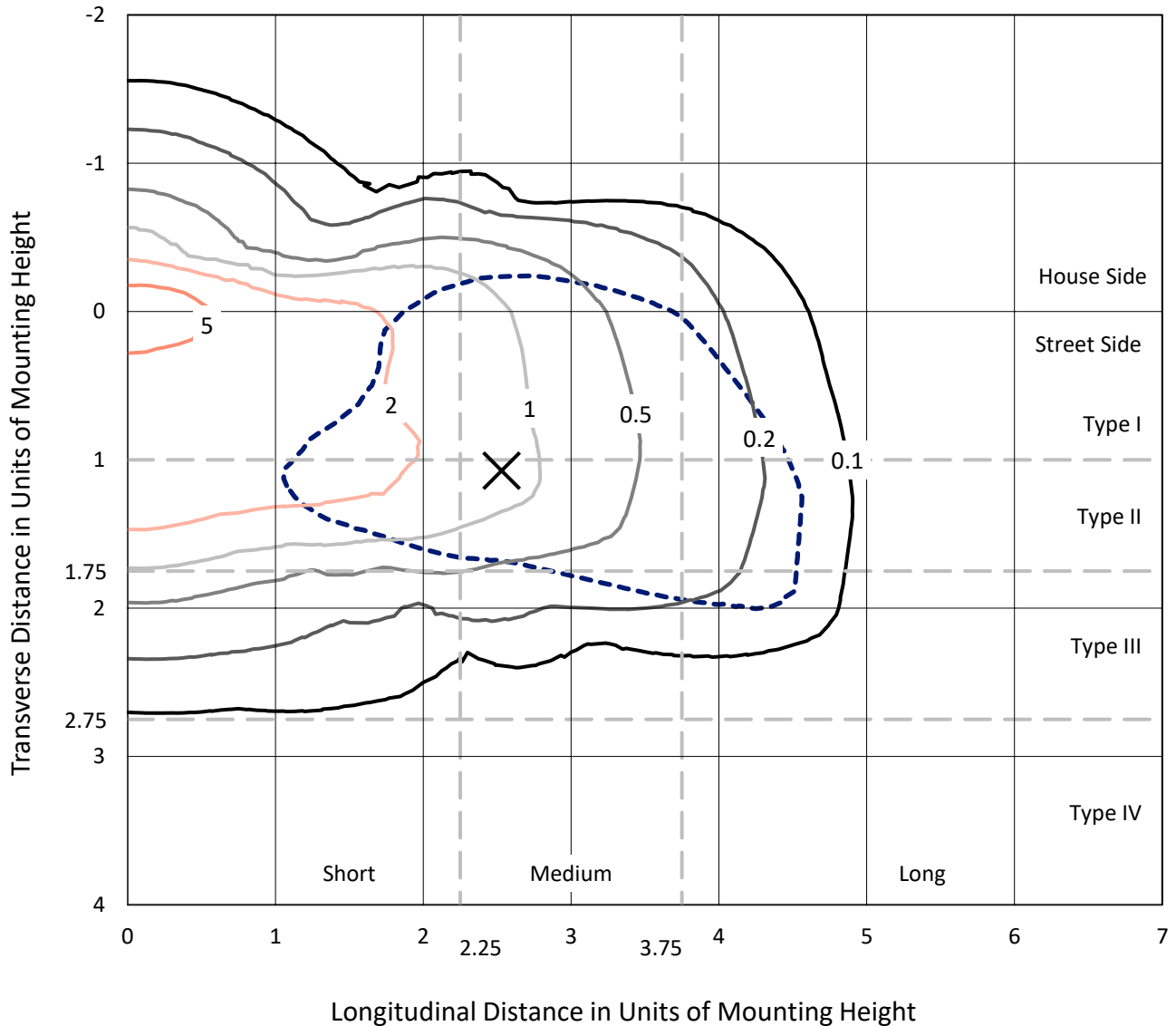
Lumens per Lamp: N/A
Luminaire Lumens: 21383.1 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

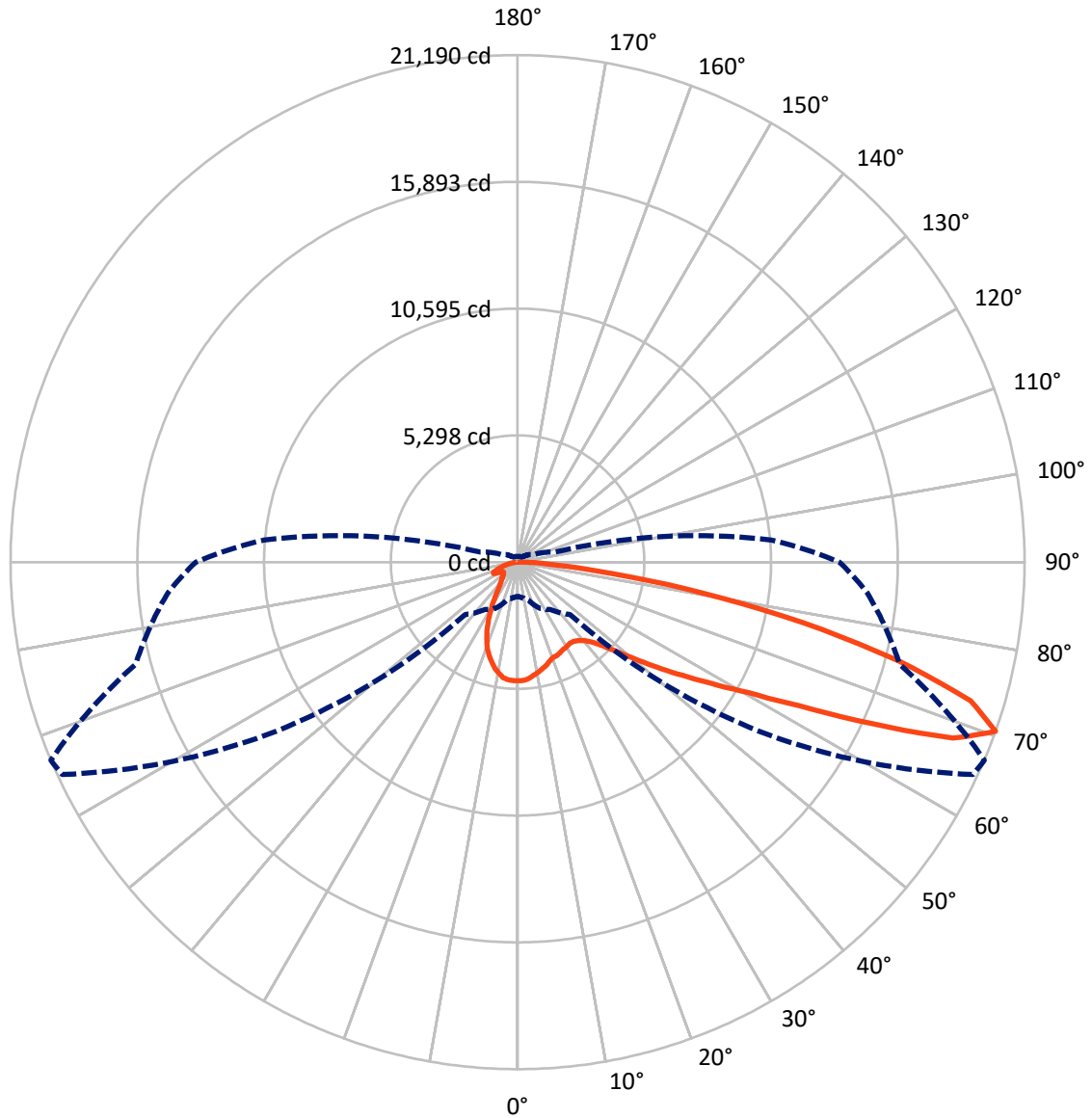
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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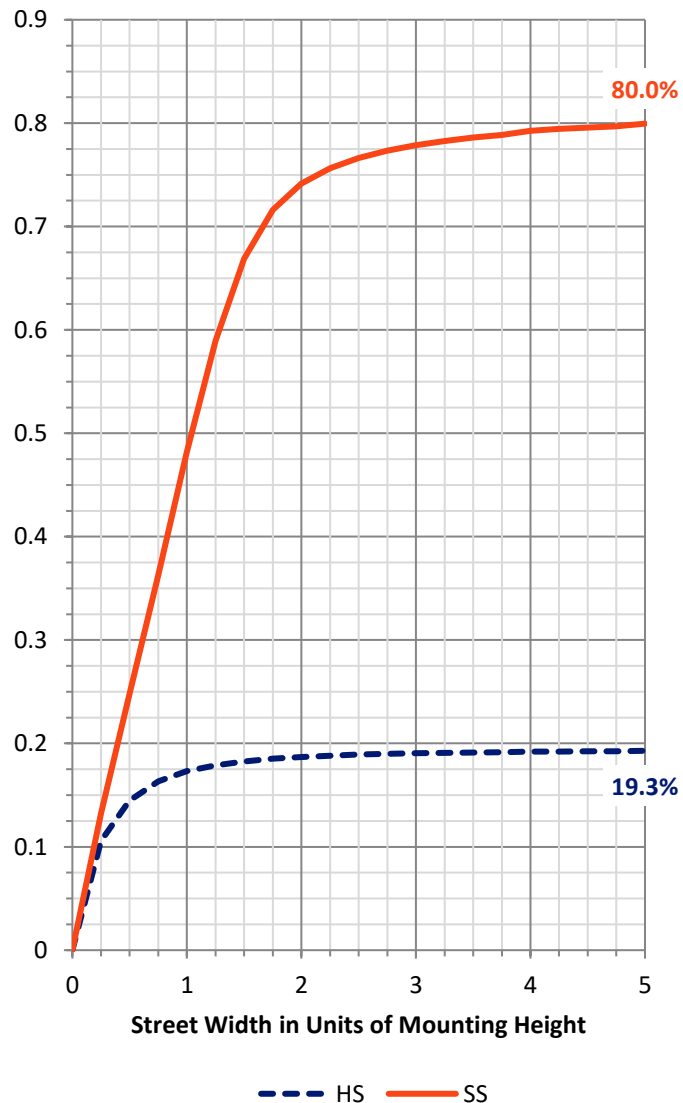
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4164.6	0.0	4164.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	17218.5	0.0	17218.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	21383.1	0.0	21383.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.9	2.0
10°-20°	1034.4	4.8
20°-30°	1396.9	6.5
30°-40°	1869.2	8.7
40°-50°	2748.6	12.9
50°-60°	4284.3	20.0
60°-70°	5277.6	24.7
70°-80°	3729.1	17.4
80°-90°	611.2	2.9
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°	21383.1	100.0
0°-180°	21383.1	100.0

Coefficient of Utilization

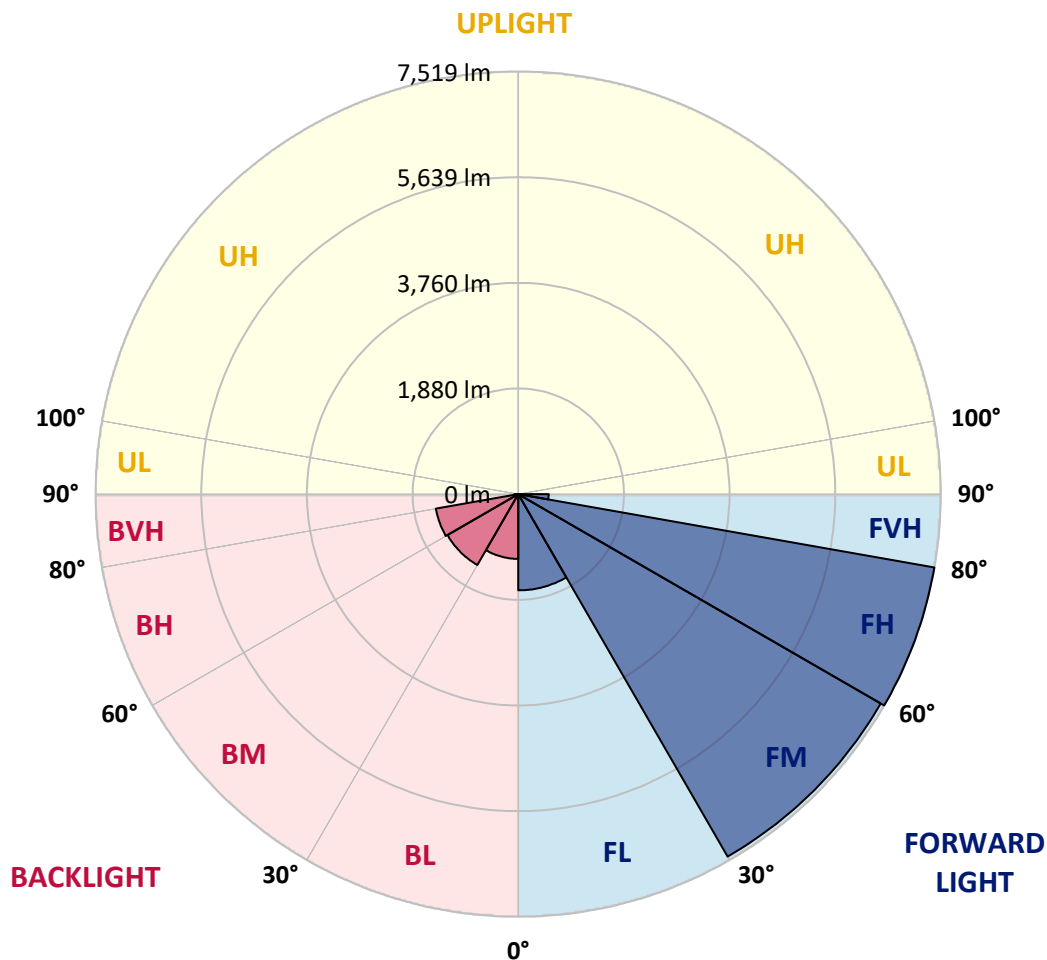


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.6	8.0			
FM (30°-60°)	7447.3	34.8			
FH (60°-80°)	7519.0	35.2			G4/12000
FVH (80°-90°)	540.7	2.5			G4/750
BL (0°-30°)	1151.6	5.4	B3/2500		
BM (30°-60°)	1454.8	6.8	B2/2500		
BH (60°-80°)	1487.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	70.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1
2.5°	4609.2	4661.3	4680.2	4708.7	4782.0	4836.5	4869.6	4907.5	4952.5	4990.4	5014.0
5°	4287.3	4315.7	4360.7	4391.4	4483.8	4630.5	4730.0	4890.9	4886.2	4945.4	5035.3
7.5°	3974.8	4003.2	4024.5	4086.0	4218.6	4351.2	4533.5	4793.9	4774.9	4912.2	5051.9
10°	3780.7	3759.3	3766.4	3870.6	3974.8	4123.9	4353.6	4618.7	4687.3	4900.4	5099.3
12.5°	3598.4	3574.7	3631.5	3697.8	3825.6	3960.6	4235.2	4474.3	4578.4	4857.8	5120.6
15°	3484.7	3468.2	3539.2	3567.6	3719.1	3880.1	4074.2	4365.4	4479.0	4805.7	5087.4
17.5°	3420.8	3435.0	3461.1	3522.6	3619.7	3757.0	3970.0	4292.0	4341.7	4741.8	5080.3
20°	3432.7	3449.2	3451.6	3477.6	3543.9	3650.4	3868.2	4213.9	4247.0	4730.0	5099.3
22.5°	3527.3	3503.7	3513.1	3496.6	3515.5	3598.4	3790.1	4109.7	4237.6	4630.5	5059.0
25°	3669.4	3636.2	3631.5	3574.7	3539.2	3562.9	3775.9	4083.7	4166.5	4599.8	5056.7
27.5°	3920.3	3870.6	3870.6	3785.4	3641.0	3603.1	3735.7	4041.1	4114.4	4571.3	5002.2
30°	4161.8	4161.8	4164.2	4043.4	3882.4	3695.4	3752.2	4024.5	4071.8	4486.1	4928.8
32.5°	4455.3	4448.2	4436.4	4377.2	4128.7	3849.3	3832.7	4003.2	4026.9	4457.7	4907.5
35°	4741.8	4722.9	4815.2	4763.1	4509.8	4150.0	3915.6	4012.7	4064.7	4415.1	4841.2
37.5°	4957.2	4969.1	5160.8	5194.0	4976.2	4490.9	4150.0	4107.3	4157.1	4476.7	4841.2
40°	5236.6	5283.9	5463.8	5575.1	5442.5	4940.7	4521.6	4266.0	4301.5	4614.0	4945.4
42.5°	5603.5	5643.8	5873.4	6017.8	5979.9	5513.6	4888.6	4597.4	4569.0	4843.6	5101.6
45°	6088.8	6095.9	6327.9	6526.8	6604.9	6112.5	5470.9	5016.4	4992.7	5238.9	5388.1
47.5°	6666.4	6659.3	6803.8	7016.8	7227.5	6827.4	6140.9	5653.2	5568.0	5804.7	5863.9
50°	7225.1	7194.4	7227.5	7499.8	7904.6	7722.3	6955.3	6432.1	6346.9	6477.1	6578.9
52.5°	7532.9	7570.8	7480.8	7840.7	8624.2	8780.5	8034.8	7362.4	7289.1	7353.0	7530.5
55°	7317.5	7395.6	7336.4	7677.3	8939.1	10070.7	9431.5	8439.6	8344.9	8321.2	8612.4
57.5°	6401.3	6543.3	6555.2	7094.9	8830.2	11069.7	11396.4	9710.9	9568.8	9327.3	9628.0
60°	4914.6	5056.7	5165.6	5804.7	7897.5	11666.3	13673.8	11519.5	11050.8	10425.8	10605.7
62.5°	3444.5	3541.6	3650.4	4043.4	6088.8	11315.9	15643.4	14066.8	13202.7	11583.4	11808.3
65°	2509.4	2585.1	2696.4	2928.4	3740.4	9362.9	16557.2	17092.2	16273.1	13055.9	13027.5
67.5°	1889.1	1936.5	2083.3	2454.9	2592.2	5783.4	15610.3	20288.2	19625.3	14691.8	14007.6
70°	1429.9	1470.1	1607.4	2116.4	2421.8	3101.2	12314.9	21000.7	21190.1	16526.4	14665.7
72.5°	984.8	1029.8	1183.7	1763.7	2305.8	2459.7	7729.4	19078.4	19795.8	17281.6	13960.2
75°	603.7	634.4	724.4	1337.6	2289.2	2405.2	4254.1	15634.0	16393.9	15967.8	12213.1
77.5°	426.1	423.8	440.3	783.6	1983.8	2419.4	2623.0	11455.6	12194.2	11768.1	8288.1
80°	310.1	312.5	329.1	468.7	1347.0	2459.7	2066.7	7672.6	7892.7	6136.2	3269.3
82.5°	187.0	196.5	236.7	317.2	809.6	2220.6	1910.4	4263.6	3989.0	1969.6	899.6
85°	99.4	99.4	139.7	201.2	430.9	1657.1	1839.4	2028.8	1699.8	610.8	333.8
87.5°	23.7	23.7	40.2	80.5	172.8	793.1	1254.7	807.3	646.3	206.0	137.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1	4950.1
2.5°	5004.6	4976.2	5011.7	4940.7	4883.8	4886.2	4798.6	4793.9	4782.0	4720.5	4741.8
5°	5061.4	5037.7	4997.5	4919.3	4793.9	4668.4	4592.7	4495.6	4455.3	4434.0	4443.5
7.5°	5115.8	5073.2	4957.2	4848.3	4654.2	4417.5	4280.2	4150.0	3984.2	3965.3	3932.2
10°	5130.0	5040.1	4890.9	4658.9	4400.9	4138.1	3825.6	3584.2	3456.3	3356.9	3319.0
12.5°	5108.7	5070.9	4784.4	4486.1	4095.5	3683.6	3319.0	2978.1	2741.4	2618.3	2585.1
15°	5106.4	5040.1	4666.0	4223.3	3723.8	3186.4	2668.0	2258.4	2009.9	1908.1	1908.1
17.5°	5108.7	4950.1	4526.4	3958.2	3285.9	2559.1	1988.6	1652.4	1515.1	1500.9	1512.7
20°	5061.4	4883.8	4379.6	3645.7	2736.7	1922.3	1444.1	1306.8	1306.8	1325.7	1332.8
22.5°	5018.8	4784.4	4147.6	3259.8	2178.0	1392.0	1174.2	1134.0	1178.9	1212.1	1226.3
25°	4959.6	4701.6	3910.9	2859.8	1657.1	1122.1	1020.3	1029.8	1072.4	1131.6	1126.9
27.5°	4874.4	4557.1	3629.1	2395.8	1233.4	968.2	942.2	946.9	991.9	1018.0	1013.2
30°	4777.3	4410.4	3368.7	1934.1	977.7	887.8	885.4	897.2	904.3	918.5	916.2
32.5°	4654.2	4216.2	3091.8	1503.3	880.7	842.8	833.3	826.2	833.3	830.9	823.8
35°	4566.6	4112.1	2810.0	1145.8	826.2	802.5	795.4	783.6	774.1	759.9	757.6
37.5°	4542.9	4007.9	2514.1	935.1	783.6	771.8	748.1	726.8	714.9	707.8	703.1
40°	4528.7	3939.3	2225.3	821.5	748.1	736.2	707.8	679.4	667.6	660.5	662.9
42.5°	4578.4	3901.4	1931.8	764.7	717.3	696.0	665.2	632.1	629.7	625.0	632.1
45°	4753.6	3948.7	1659.5	724.4	686.5	651.0	610.8	594.2	591.8	587.1	591.8
47.5°	5151.3	4067.1	1427.5	698.4	653.4	622.6	580.0	556.3	554.0	551.6	551.6
50°	5700.6	4431.7	1233.4	667.6	632.1	589.5	549.2	523.2	518.4	509.0	509.0
52.5°	6562.3	5044.8	1117.4	651.0	594.2	558.7	516.1	487.7	475.8	466.4	466.4
55°	7532.9	5804.7	1096.1	622.6	554.0	520.8	482.9	454.5	442.7	430.9	426.1
57.5°	8638.4	6810.9	1247.6	603.7	525.6	482.9	440.3	414.3	404.8	393.0	388.2
60°	9668.2	7814.6	1718.7	575.3	499.5	447.4	404.8	378.8	366.9	355.1	355.1
62.5°	10859.0	9057.5	2516.5	575.3	475.8	409.6	366.9	348.0	340.9	329.1	326.7
65°	12267.6	10342.9	3098.9	610.8	468.7	376.4	331.4	312.5	305.4	298.3	295.9
67.5°	13340.0	11081.5	2665.6	705.5	499.5	348.0	295.9	284.1	279.3	272.2	267.5
70°	13453.6	10631.8	1607.4	762.3	530.3	319.6	265.1	253.3	253.3	246.2	241.5
72.5°	12433.3	9433.9	1081.9	679.4	480.6	286.4	234.4	224.9	220.2	215.4	213.1
75°	10404.5	8001.6	854.6	542.1	369.3	236.7	203.6	194.1	187.0	184.7	179.9
77.5°	6988.4	5201.1	632.1	423.8	272.2	191.8	170.4	161.0	153.9	151.5	144.4
80°	2684.6	1981.5	407.2	307.8	191.8	151.5	134.9	125.5	120.7	113.6	108.9
82.5°	790.7	641.6	227.3	189.4	123.1	104.2	97.1	90.0	82.9	75.8	73.4
85°	326.7	293.6	139.7	99.4	75.8	61.6	56.8	49.7	42.6	37.9	33.1
87.5°	151.5	125.5	63.9	37.9	26.0	14.2	7.1	2.4	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)