

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: P484140

Luminaire Tested: **IFLD-S-SA6C-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484140
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

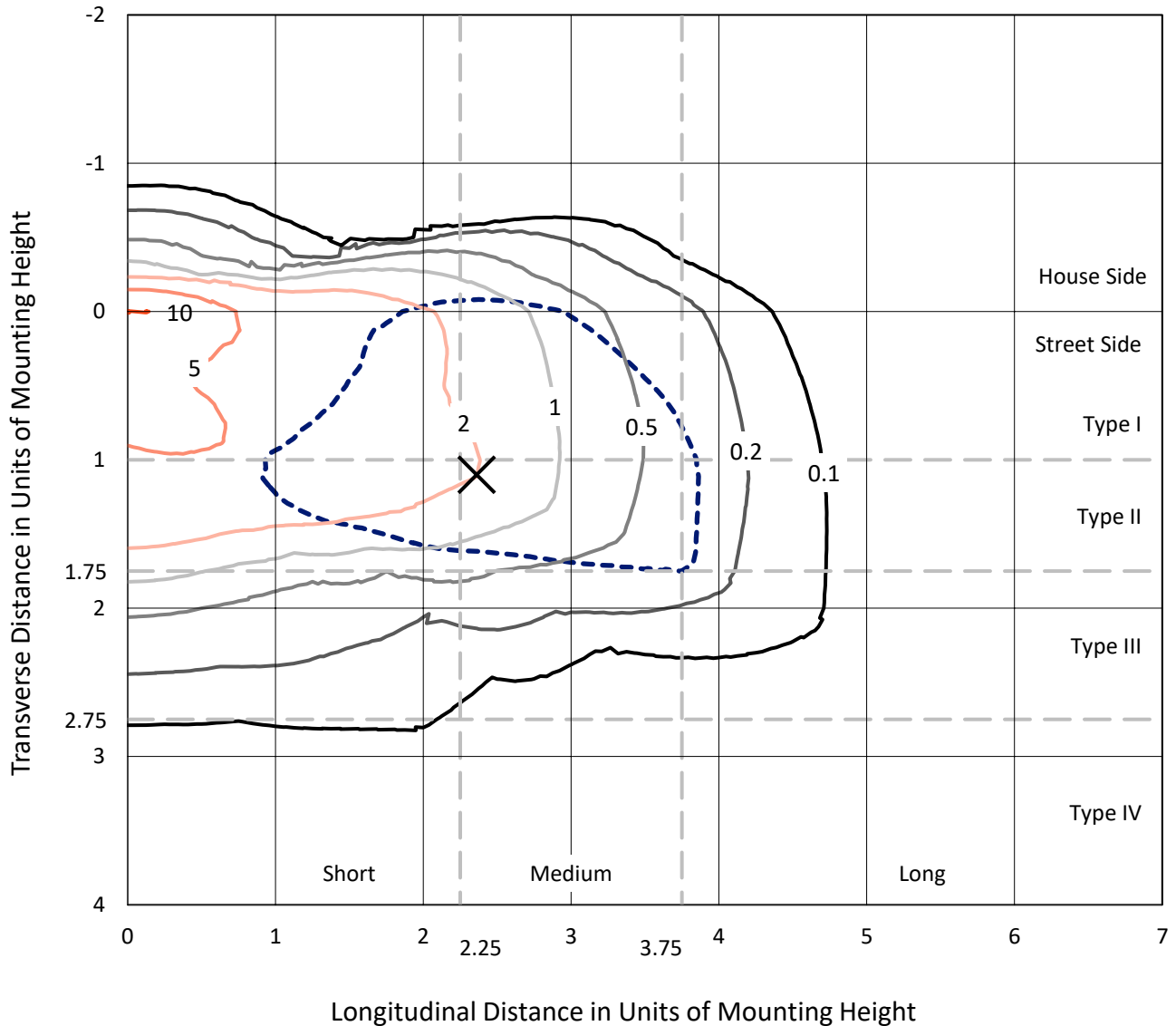
Lumens per Lamp: N/A
Luminaire Lumens: 25139.9 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5
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

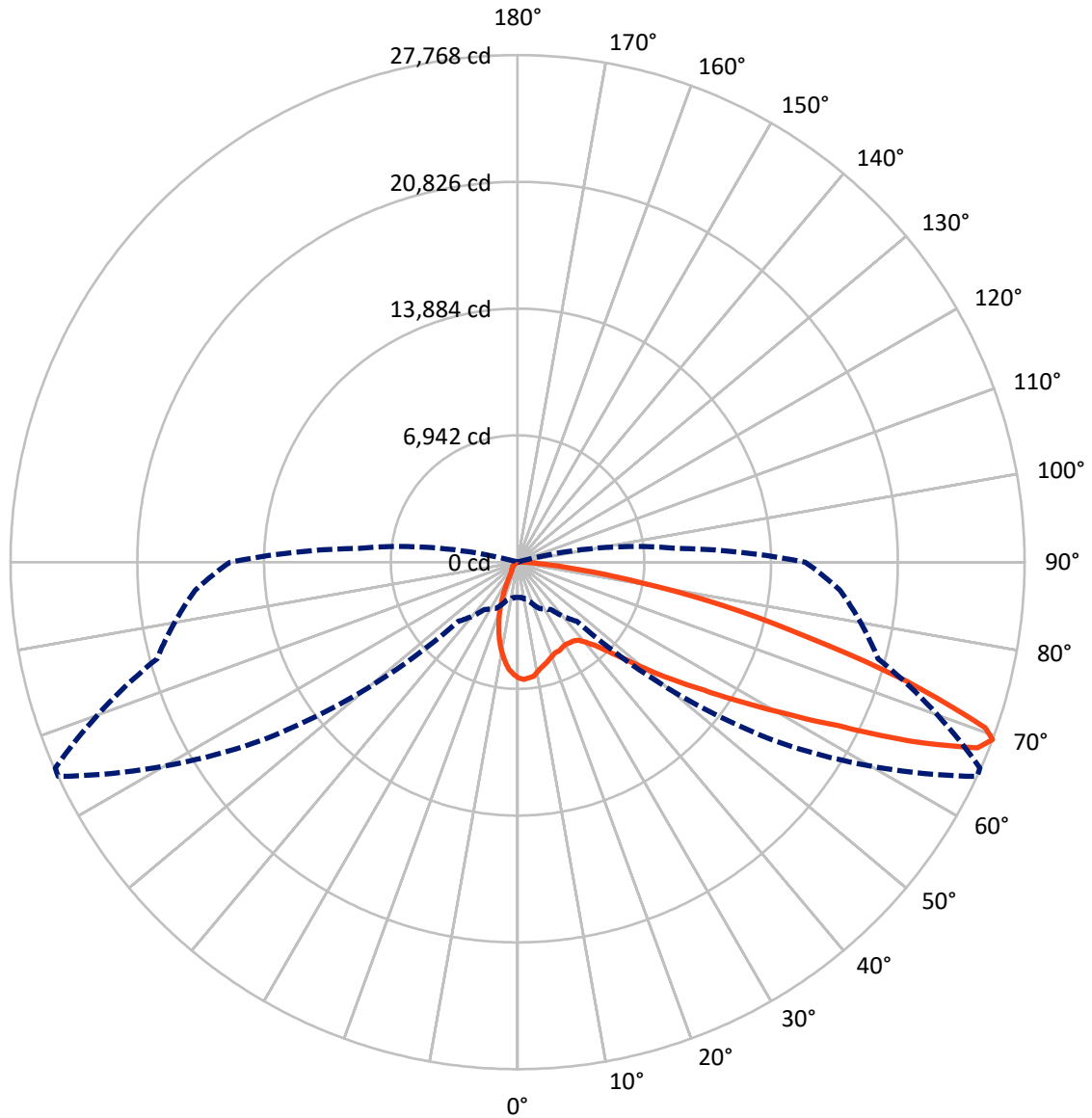
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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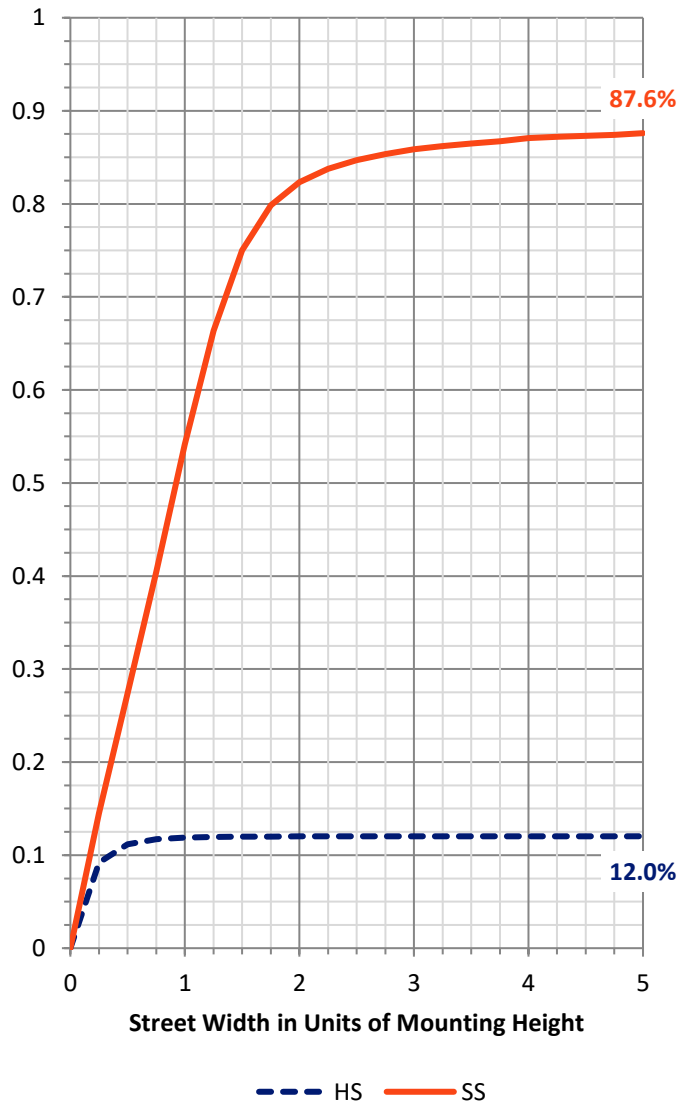
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3049.6	0.0	3049.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	22090.3	0.0	22090.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	25139.9	0.0	25139.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.7	2.1
10°-20°	1134.9	4.5
20°-30°	1580.0	6.3
30°-40°	2239.0	8.9
40°-50°	3528.6	14.0
50°-60°	5725.7	22.8
60°-70°	6394.4	25.4
70°-80°	3600.8	14.3
80°-90°	417.8	1.7
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°	25139.9	100.0
0°-180°	25139.9	100.0

Coefficient of Utilization



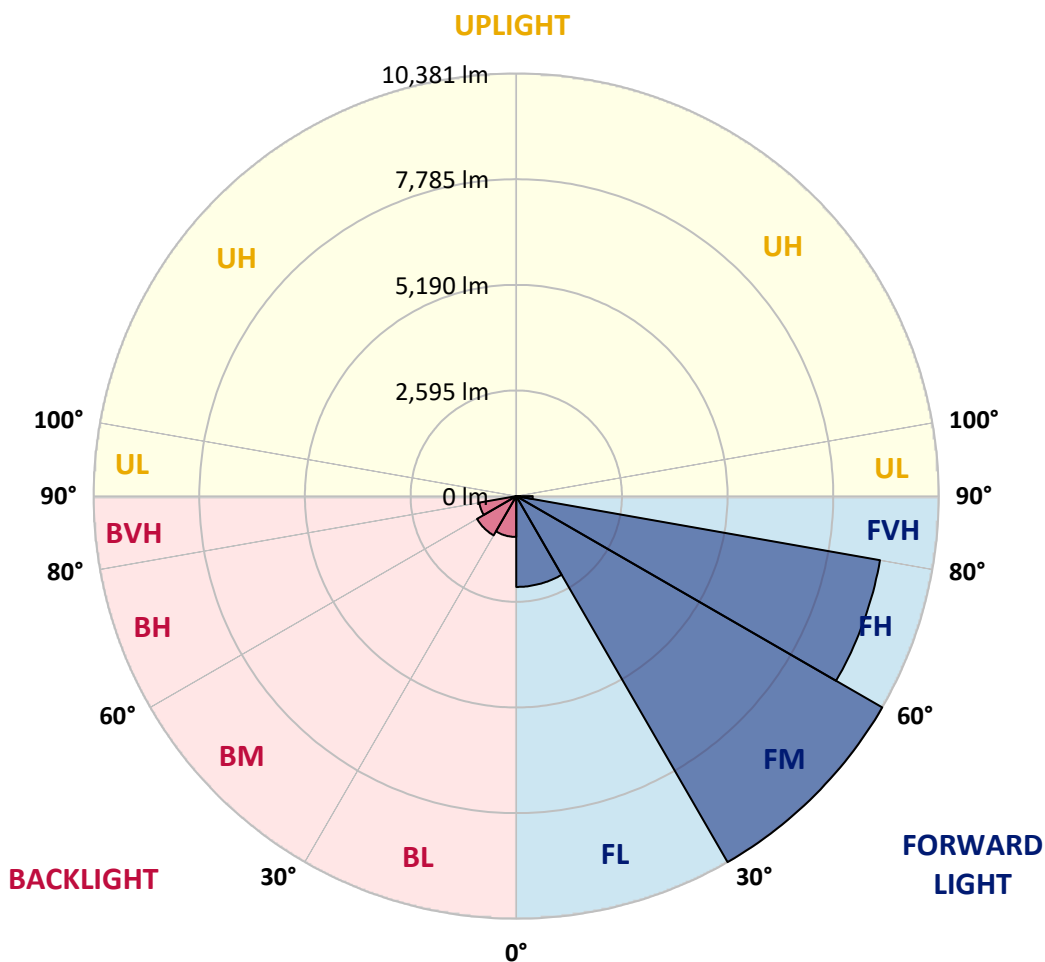
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2230.9	8.9			
FM (30°-60°)	10380.5	41.3			
FH (60°-80°)	9072.6	36.1			G4/12000
FVH (80°-90°)	406.3	1.6			G3/500
BL (0°-30°)	1002.6	4.0	B3/2500		
BM (30°-60°)	1112.8	4.4	B2/2500		
BH (60°-80°)	922.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	11.5	0.0			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4
2.5°	6104.4	6151.8	6165.4	6212.9	6236.6	6338.4	6396.0	6429.9	6413.0	6450.3	6453.7
5°	5670.3	5643.1	5714.4	5765.2	5873.7	6050.1	6229.8	6368.9	6433.3	6494.4	6484.2
7.5°	5205.7	5192.1	5263.3	5378.6	5477.0	5690.6	5978.9	6321.4	6307.8	6457.1	6501.1
10°	4886.9	4900.4	4924.2	5039.5	5185.3	5402.4	5761.8	6080.6	6151.8	6467.2	6555.4
12.5°	4595.2	4619.0	4663.1	4781.7	4951.3	5175.1	5524.4	5897.5	6006.0	6409.6	6585.9
15°	4500.3	4446.0	4534.2	4622.4	4798.7	4998.8	5293.8	5758.4	5805.9	6341.7	6636.8
17.5°	4422.3	4388.4	4429.1	4500.3	4686.8	4849.6	5127.7	5609.2	5697.4	6314.6	6630.0
20°	4446.0	4415.5	4432.4	4486.7	4571.5	4724.1	4981.8	5466.8	5561.7	6189.1	6619.8
22.5°	4513.8	4537.6	4507.1	4520.6	4547.7	4625.7	4903.8	5365.1	5446.4	6165.4	6677.5
25°	4819.1	4778.4	4737.7	4720.7	4561.3	4595.2	4880.1	5358.3	5415.9	6080.6	6630.0
27.5°	5137.8	5103.9	5087.0	4988.6	4771.6	4669.8	4883.5	5263.3	5341.3	6046.7	6572.4
30°	5524.4	5568.5	5500.7	5382.0	5080.2	4829.2	4920.8	5215.8	5324.4	5917.8	6535.1
32.5°	5931.4	5955.1	5989.1	5900.9	5510.9	5070.0	5032.7	5259.9	5266.7	5917.8	6450.3
35°	6392.6	6358.7	6446.9	6453.7	6111.1	5497.3	5246.4	5290.4	5361.7	5890.7	6419.7
37.5°	6789.4	6847.1	6948.8	7111.6	6758.9	6101.0	5578.7	5432.9	5463.4	6016.2	6443.5
40°	7223.5	7281.1	7511.8	7674.5	7474.4	6779.2	6084.0	5765.2	5789.0	6202.7	6565.6
42.5°	7701.7	7813.6	8088.3	8373.1	8318.9	7640.6	6735.1	6253.6	6243.4	6667.3	6816.5
45°	8349.4	8498.6	8797.1	9126.0	9173.5	8627.5	7603.3	6982.7	7016.6	7274.4	7335.4
47.5°	9251.5	9244.7	9536.4	9902.6	10177.3	9651.7	8641.1	7962.8	7959.4	8234.1	8105.2
50°	10123.1	10126.5	10204.5	10628.4	11340.5	11072.6	9926.4	9265.1	9227.8	9363.4	9156.5
52.5°	10526.6	10479.1	10421.5	10933.6	12235.8	12863.2	11554.2	10740.3	10709.8	10628.4	10574.1
55°	10102.7	10119.7	10116.3	10648.7	12707.2	14752.2	13643.2	12364.7	12313.8	12059.5	12134.1
57.5°	8742.8	8688.5	8807.2	9638.1	12168.0	16040.9	16631.0	14413.1	14280.8	13436.4	13266.8
60°	6507.9	6524.9	6623.2	7603.3	10828.5	16312.2	19489.9	16817.5	16247.8	14406.3	14172.3
62.5°	4544.4	4510.4	4547.7	5097.1	7742.4	15227.0	21422.9	19740.8	19191.4	15508.5	15372.8
65°	3252.3	3208.2	3357.4	3693.1	4649.5	11642.4	21697.6	23634.0	23142.3	17268.6	16943.0
67.5°	2340.0	2333.2	2506.2	3116.6	3303.1	6704.6	19662.8	27161.0	26862.6	19357.6	17899.3
69°	1936.4	1939.8	2106.0	2791.0	3153.9	4578.3	16919.2	27768.0	27713.8	20436.0	17719.6
70°	1688.9	1702.4	1895.7	2597.7	3092.9	3764.4	14586.0	27171.2	27116.9	20646.3	17126.1
72.5°	1041.1	1051.3	1305.7	2082.3	2940.3	3072.5	8722.4	22230.0	22416.6	19683.2	14755.6
75°	498.5	501.9	685.0	1505.7	2835.1	2913.1	4673.2	16403.8	16797.2	15891.7	11530.5
77.5°	264.5	264.5	329.0	800.3	2295.9	2740.2	2774.1	11571.1	11896.7	10048.5	6555.4
80°	132.3	135.7	200.1	417.1	1424.4	2685.9	2167.0	6901.3	7077.7	4100.1	2041.6
82.5°	50.9	54.3	95.0	251.0	739.3	2268.8	1902.5	3394.7	3350.6	959.7	498.5
85°	6.8	6.8	33.9	149.2	315.4	1000.4	1570.2	1417.6	1370.1	210.3	240.8
87.5°	0.0	0.0	6.8	44.1	95.0	291.7	607.0	390.0	434.1	57.7	118.7
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°	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4	6338.4
2.5°	6436.7	6365.5	6257.0	6151.8	6039.9	5904.3	5755.1	5700.8	5605.8	5599.1	5653.3
5°	6429.9	6314.6	6124.7	5900.9	5582.1	5341.3	5080.2	4890.3	4744.4	4649.5	4673.2
7.5°	6463.8	6324.8	5995.8	5514.3	5103.9	4625.7	4222.2	3944.1	3689.7	3564.3	3550.7
10°	6409.6	6223.1	5741.5	5066.6	4463.0	3794.9	3204.8	2831.7	2451.9	2312.9	2319.7
12.5°	6440.1	6179.0	5466.8	4605.4	3774.5	2906.4	2201.0	1692.3	1336.2	1220.9	1207.3
15°	6460.4	6084.0	5202.3	4052.6	3011.5	1980.5	1275.1	959.7	847.8	827.5	824.1
17.5°	6382.4	5968.7	4829.2	3506.6	2231.5	1203.9	847.8	783.4	763.0	749.5	742.7
20°	6379.1	5900.9	4507.1	2947.0	1488.8	820.7	732.5	708.8	678.3	668.1	668.1
22.5°	6321.4	5758.4	4120.4	2333.2	949.6	705.4	657.9	620.6	586.7	573.1	569.7
25°	6304.4	5592.3	3757.6	1753.3	722.3	630.8	583.3	529.0	488.3	468.0	457.8
27.5°	6257.0	5449.8	3391.3	1234.4	630.8	563.0	501.9	444.3	396.8	366.3	362.9
30°	6087.4	5300.6	2984.4	854.6	573.1	498.5	430.7	362.9	315.4	295.0	288.3
32.5°	6016.2	5161.6	2540.1	657.9	522.3	440.9	362.9	301.8	264.5	244.2	240.8
35°	5931.4	4958.1	2109.4	573.1	474.8	383.2	305.2	254.3	223.8	206.9	206.9
37.5°	5941.6	4795.3	1705.8	518.9	423.9	329.0	261.1	217.0	189.9	173.0	173.0
40°	5911.1	4666.4	1326.0	471.4	376.4	281.5	220.4	183.1	159.4	142.4	139.0
42.5°	6050.1	4632.5	1000.4	430.7	329.0	240.8	189.9	156.0	132.3	111.9	111.9
45°	6284.1	4686.8	780.0	393.4	281.5	206.9	162.8	128.9	105.1	91.6	88.2
47.5°	6908.1	4900.4	610.4	362.9	240.8	179.7	135.7	105.1	84.8	71.2	67.8
50°	7813.6	5378.6	518.9	318.8	203.5	152.6	111.9	81.4	67.8	54.3	50.9
52.5°	9102.3	6182.4	471.4	281.5	169.6	125.5	88.2	64.4	50.9	40.7	37.3
55°	10506.3	7186.2	427.3	237.4	142.4	101.7	71.2	50.9	37.3	27.1	23.7
57.5°	11601.7	8054.4	390.0	196.7	115.3	81.4	54.3	37.3	27.1	17.0	13.6
60°	12798.8	8664.8	342.5	156.0	95.0	61.0	40.7	27.1	20.3	10.2	10.2
62.5°	14033.2	9380.4	281.5	122.1	74.6	47.5	30.5	20.3	13.6	3.4	3.4
65°	15749.2	9939.9	217.0	95.0	57.7	33.9	23.7	17.0	6.8	0.0	0.0
67.5°	16234.2	9665.2	159.4	74.6	40.7	23.7	17.0	10.2	3.4	0.0	0.0
69°	15749.2	8705.5	139.0	64.4	33.9	20.3	13.6	6.8	3.4	0.0	0.0
70°	14864.1	7959.4	122.1	54.3	30.5	20.3	10.2	6.8	3.4	0.0	0.0
72.5°	12432.5	6104.4	95.0	40.7	23.7	17.0	10.2	6.8	0.0	0.0	0.0
75°	9119.2	3771.1	71.2	30.5	20.3	13.6	10.2	6.8	0.0	0.0	0.0
77.5°	4886.9	1376.9	50.9	20.3	13.6	10.2	10.2	6.8	0.0	0.0	0.0
80°	1339.6	407.0	37.3	13.6	10.2	6.8	6.8	3.4	0.0	0.0	0.0
82.5°	366.3	105.1	23.7	13.6	10.2	6.8	3.4	0.0	0.0	0.0	0.0
85°	196.7	40.7	13.6	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	101.7	13.6	10.2	6.8	6.8	3.4	0.0	0.0	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)