

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: P483919

Luminaire Tested: **IFLD-L-SA8A-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483919
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

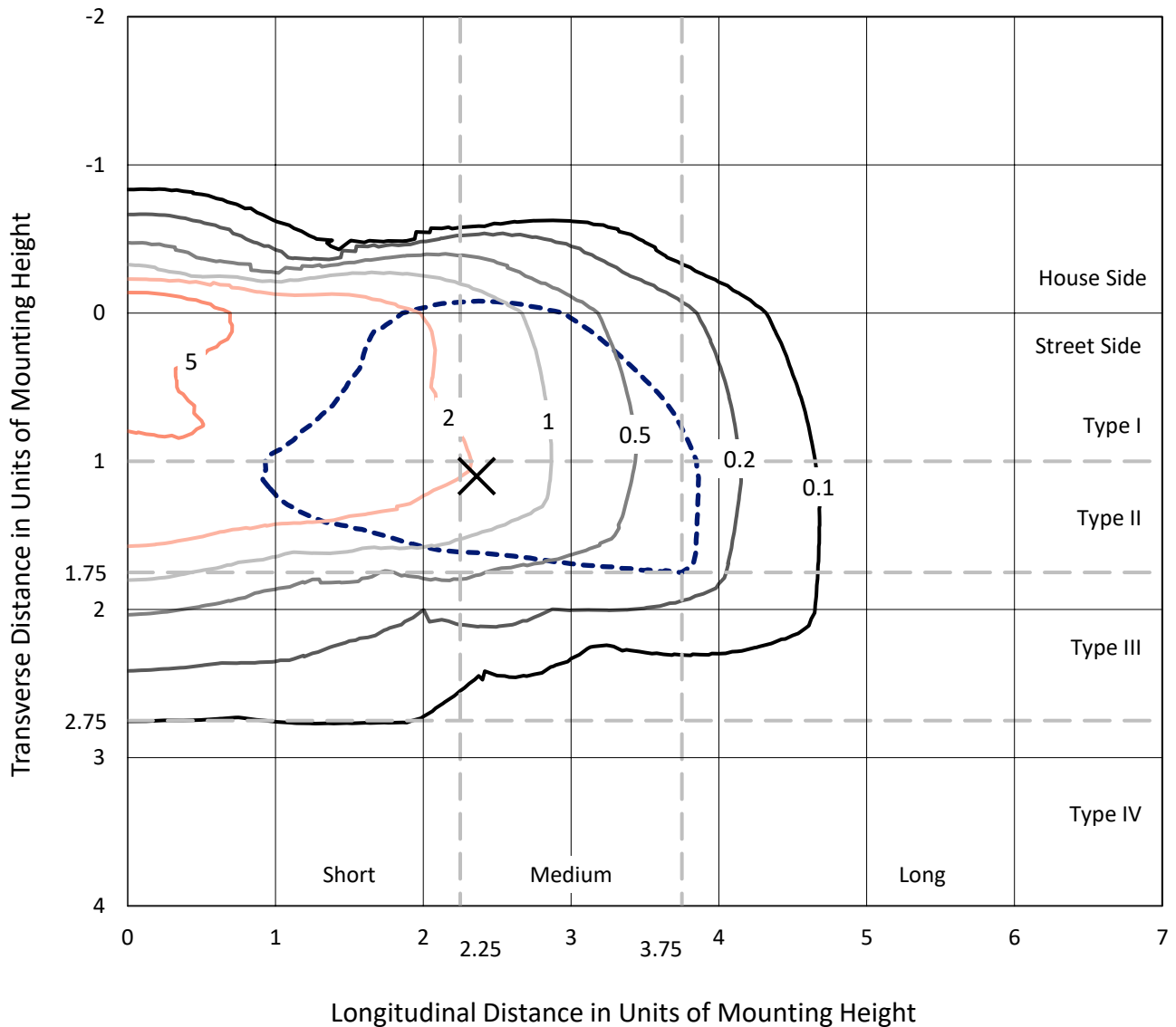
Lumens per Lamp: N/A
Luminaire Lumens: 23579.2 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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

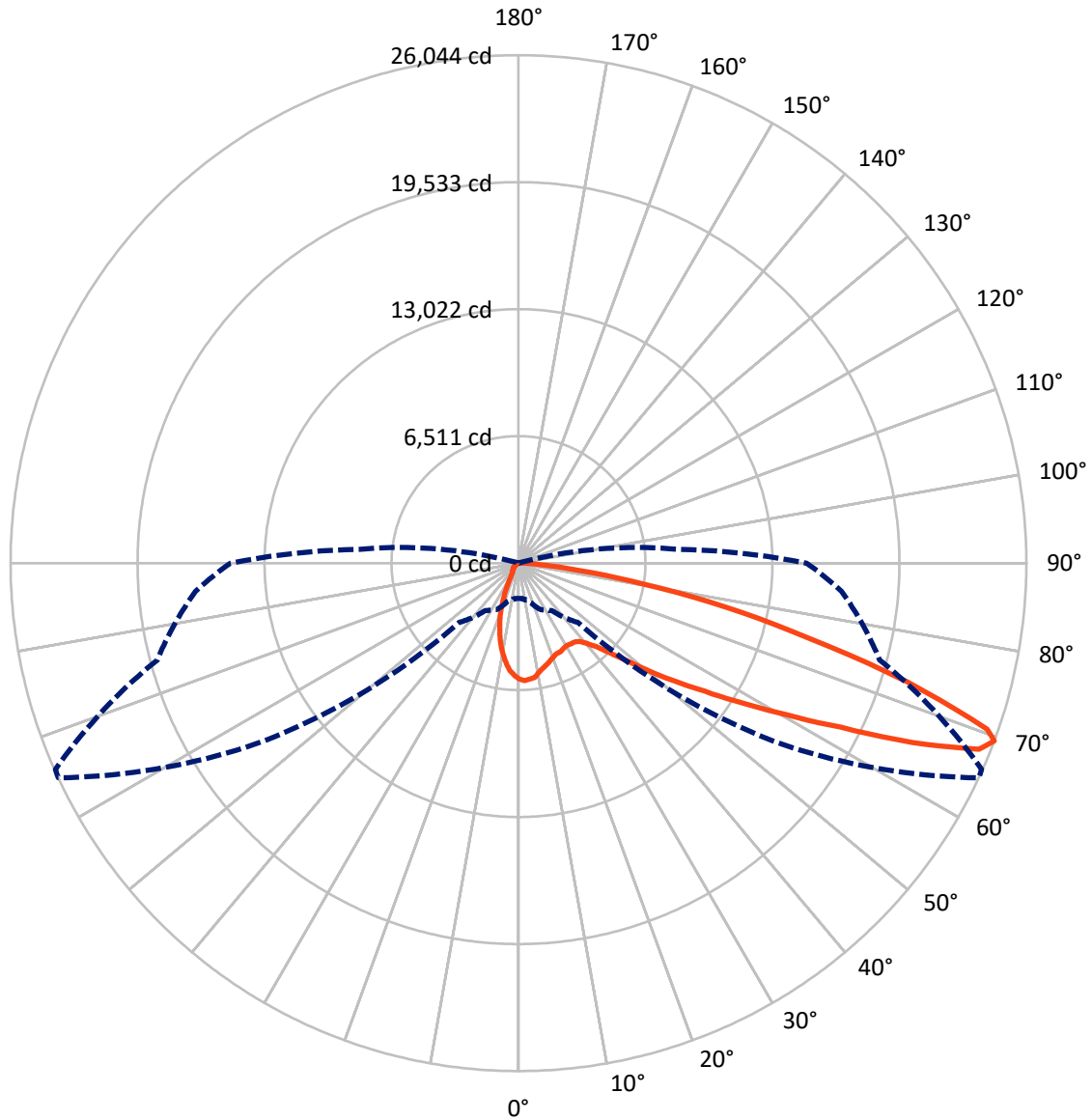
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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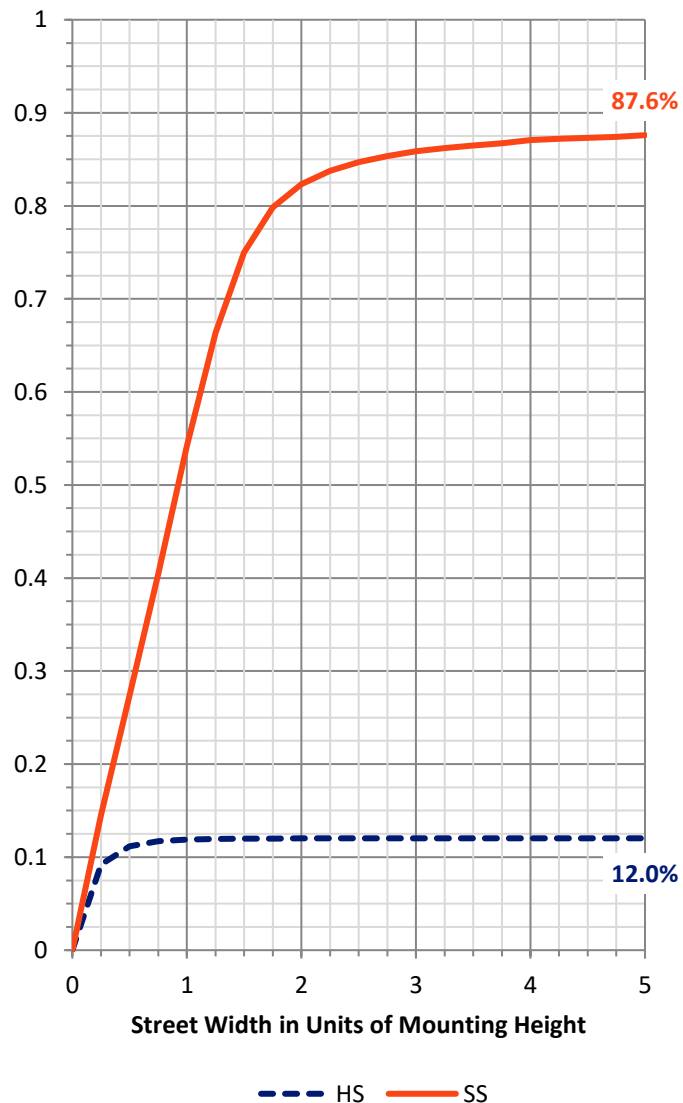
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2860.3	0.0	2860.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	20718.9	0.0	20718.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	23579.2	0.0	23579.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.5	2.1
10°-20°	1064.4	4.5
20°-30°	1481.9	6.3
30°-40°	2100.0	8.9
40°-50°	3309.5	14.0
50°-60°	5370.2	22.8
60°-70°	5997.5	25.4
70°-80°	3377.3	14.3
80°-90°	391.9	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°	23579.2	100.0
0°-180°	23579.2	100.0

Coefficient of Utilization

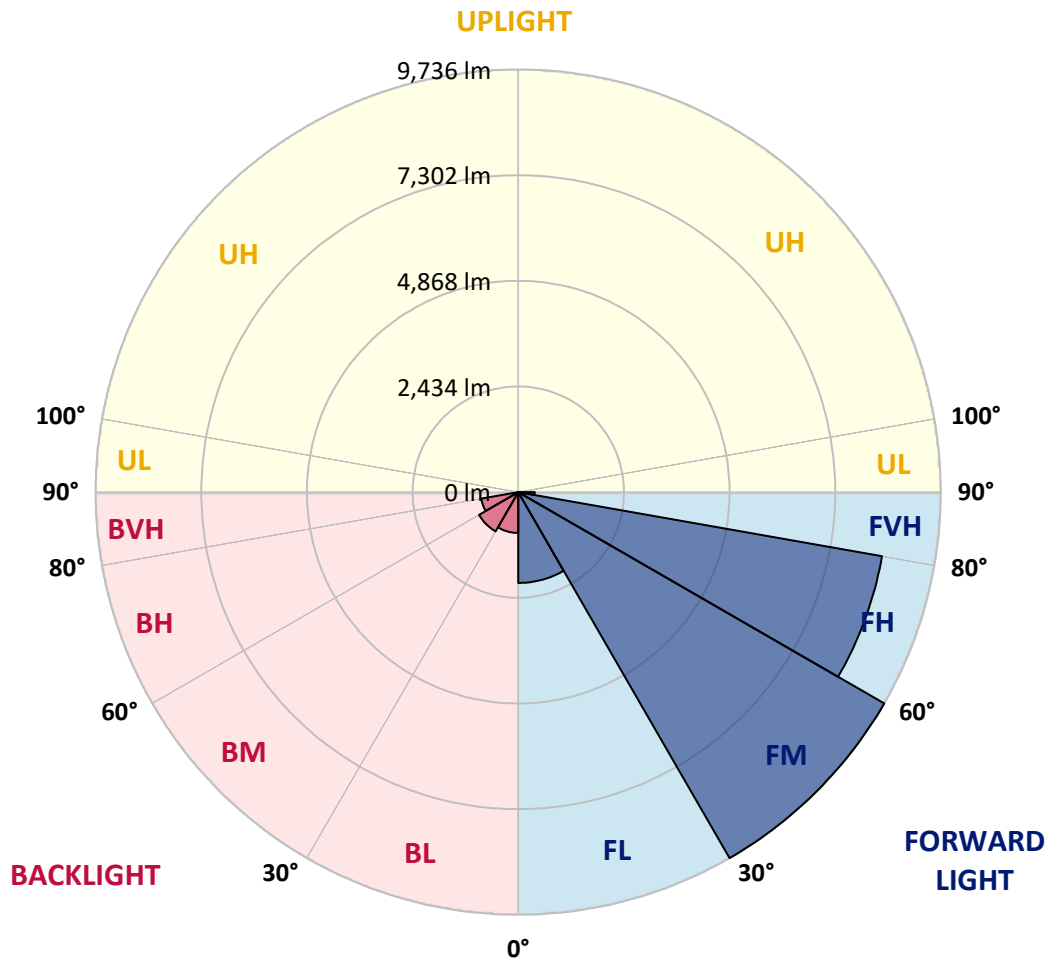


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2092.4	8.9			
FM (30°-60°)	9736.1	41.3			
FH (60°-80°)	8509.3	36.1			G4/12000
FVH (80°-90°)	381.1	1.6			G3/500
BL (0°-30°)	940.4	4.0	B2/1000		
BM (30°-60°)	1043.7	4.4	B2/2500		
BH (60°-80°)	865.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9
2.5°	5725.4	5769.9	5782.6	5827.2	5849.4	5944.9	5998.9	6030.7	6014.8	6049.8	6053.0
5°	5318.3	5292.8	5359.6	5407.3	5509.1	5674.5	5843.1	5973.5	6033.9	6091.2	6081.6
7.5°	4882.5	4869.8	4936.6	5044.7	5136.9	5337.3	5607.7	5929.0	5916.2	6056.2	6097.5
10°	4583.5	4596.2	4618.5	4726.6	4863.4	5067.0	5404.1	5703.1	5769.9	6065.7	6148.4
12.5°	4309.9	4332.2	4373.6	4484.9	4643.9	4853.9	5181.5	5531.4	5633.2	6011.7	6177.1
15°	4220.9	4170.0	4252.7	4335.4	4500.8	4688.5	4965.2	5401.0	5445.5	5948.0	6224.8
17.5°	4147.7	4115.9	4154.1	4220.9	4395.8	4548.5	4809.3	5261.0	5343.7	5922.6	6218.4
20°	4170.0	4141.4	4157.3	4208.2	4287.7	4430.8	4672.6	5127.4	5216.5	5804.9	6208.9
22.5°	4233.6	4255.9	4227.2	4240.0	4265.4	4338.6	4599.4	5032.0	5108.3	5782.6	6262.9
25°	4519.9	4481.7	4443.5	4427.6	4278.1	4309.9	4577.1	5025.6	5079.7	5703.1	6218.4
27.5°	4818.9	4787.1	4771.2	4678.9	4475.3	4379.9	4580.3	4936.6	5009.7	5671.3	6164.3
30°	5181.5	5222.8	5159.2	5047.9	4764.8	4529.4	4615.3	4892.0	4993.8	5550.5	6129.4
32.5°	5563.2	5585.4	5617.2	5534.5	5168.8	4755.3	4720.3	4933.4	4939.7	5550.5	6049.8
35°	5995.8	5964.0	6046.7	6053.0	5731.8	5156.0	4920.7	4962.0	5028.8	5525.0	6021.2
37.5°	6367.9	6422.0	6517.4	6670.1	6339.3	5722.2	5232.4	5095.6	5124.2	5642.7	6043.5
40°	6775.0	6829.1	7045.4	7198.1	7010.4	6358.4	5706.3	5407.3	5429.6	5817.6	6158.0
42.5°	7223.5	7328.5	7586.1	7853.3	7802.4	7166.3	6317.0	5865.3	5855.8	6253.4	6393.4
45°	7831.1	7971.0	8250.9	8559.5	8604.0	8091.9	7131.3	6549.2	6581.0	6822.8	6880.0
47.5°	8677.2	8670.8	8944.3	9287.9	9545.5	9052.5	8104.6	7468.5	7465.3	7722.9	7602.0
50°	9494.6	9497.8	9570.9	9968.5	10636.5	10385.2	9310.1	8689.9	8654.9	8782.1	8588.1
52.5°	9873.1	9828.6	9774.5	10254.8	11476.2	12064.7	10836.9	10073.5	10044.9	9968.5	9917.7
55°	9475.5	9491.4	9488.2	9987.6	11918.4	13836.4	12796.3	11597.1	11549.4	11310.8	11380.8
57.5°	8200.0	8149.1	8260.5	9039.8	11412.6	15045.1	15598.5	13518.3	13394.2	12602.2	12443.2
60°	6103.9	6119.8	6212.1	7131.3	10156.2	15299.5	18279.9	15773.5	15239.1	13511.9	13292.5
62.5°	4262.2	4230.4	4265.4	4780.7	7261.7	14281.7	20092.9	18515.3	18000.0	14545.7	14418.4
65°	3050.4	3009.0	3149.0	3463.9	4360.8	10919.6	20350.6	22166.8	21705.6	16196.5	15891.1
67.5°	2194.7	2188.4	2350.6	2923.1	3098.1	6288.4	18442.1	25474.8	25194.9	18155.9	16788.1
69°	1816.2	1819.4	1975.3	2617.8	2958.1	4294.0	15868.9	26044.2	25993.3	19167.3	16619.5
70°	1584.0	1596.7	1778.1	2436.5	2900.9	3530.7	13680.5	25484.4	25433.5	19364.6	16062.9
72.5°	976.5	986.0	1224.6	1953.0	2757.7	2881.8	8181.0	20850.0	21024.9	18461.2	13839.5
75°	467.6	470.8	642.5	1412.3	2659.1	2732.3	4383.1	15385.4	15754.4	14905.1	10814.6
77.5°	248.1	248.1	308.5	750.7	2153.4	2570.1	2601.9	10852.8	11158.2	9424.6	6148.4
80°	124.1	127.2	187.7	391.2	1335.9	2519.2	2032.5	6472.9	6638.3	3845.6	1914.8
82.5°	47.7	50.9	89.1	235.4	693.4	2127.9	1784.4	3184.0	3142.6	900.2	467.6
85°	6.4	6.4	31.8	140.0	295.8	938.3	1472.7	1329.6	1285.0	197.2	225.8
87.5°	0.0	0.0	6.4	41.4	89.1	273.5	569.4	365.8	407.1	54.1	111.3
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°	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9	5944.9
2.5°	6037.1	5970.3	5868.5	5769.9	5665.0	5537.7	5397.8	5346.9	5257.8	5251.5	5302.4
5°	6030.7	5922.6	5744.5	5534.5	5235.6	5009.7	4764.8	4586.7	4449.9	4360.8	4383.1
7.5°	6062.6	5932.1	5623.6	5171.9	4787.1	4338.6	3960.1	3699.2	3460.7	3343.0	3330.3
10°	6011.7	5836.7	5385.1	4752.1	4185.9	3559.3	3005.8	2655.9	2299.7	2169.3	2175.6
12.5°	6040.3	5795.4	5127.4	4319.5	3540.2	2725.9	2064.3	1587.2	1253.2	1145.1	1132.4
15°	6059.4	5706.3	4879.3	3801.0	2824.5	1857.6	1196.0	900.2	795.2	776.1	772.9
17.5°	5986.2	5598.2	4529.4	3288.9	2092.9	1129.2	795.2	734.8	715.7	703.0	696.6
20°	5983.0	5534.5	4227.2	2764.1	1396.4	769.7	687.0	664.8	636.2	626.6	626.6
22.5°	5929.0	5401.0	3864.6	2188.4	890.6	661.6	617.1	582.1	550.3	537.6	534.4
25°	5913.1	5245.1	3524.3	1644.5	677.5	591.6	547.1	496.2	458.0	438.9	429.4
27.5°	5868.5	5111.5	3180.8	1157.8	591.6	528.0	470.8	416.7	372.2	343.5	340.3
30°	5709.5	4971.5	2799.1	801.6	537.6	467.6	404.0	340.3	295.8	276.7	270.4
32.5°	5642.7	4841.1	2382.4	617.1	489.8	413.5	340.3	283.1	248.1	229.0	225.8
35°	5563.2	4650.3	1978.4	537.6	445.3	359.4	286.3	238.6	209.9	194.0	194.0
37.5°	5572.7	4497.6	1599.9	486.7	397.6	308.5	244.9	203.6	178.1	162.2	162.2
40°	5544.1	4376.7	1243.7	442.1	353.1	264.0	206.8	171.8	149.5	133.6	130.4
42.5°	5674.5	4344.9	938.3	404.0	308.5	225.8	178.1	146.3	124.1	105.0	105.0
45°	5894.0	4395.8	731.6	369.0	264.0	194.0	152.7	120.9	98.6	85.9	82.7
47.5°	6479.2	4596.2	572.5	340.3	225.8	168.6	127.2	98.6	79.5	66.8	63.6
50°	7328.5	5044.7	486.7	299.0	190.8	143.1	105.0	76.3	63.6	50.9	47.7
52.5°	8537.2	5798.6	442.1	264.0	159.0	117.7	82.7	60.4	47.7	38.2	35.0
55°	9854.0	6740.1	400.8	222.7	133.6	95.4	66.8	47.7	35.0	25.4	22.3
57.5°	10881.4	7554.3	365.8	184.5	108.1	76.3	50.9	35.0	25.4	15.9	12.7
60°	12004.2	8126.9	321.3	146.3	89.1	57.3	38.2	25.4	19.1	9.5	9.5
62.5°	13162.0	8798.0	264.0	114.5	70.0	44.5	28.6	19.1	12.7	3.2	3.2
65°	14771.5	9322.8	203.6	89.1	54.1	31.8	22.3	15.9	6.4	0.0	0.0
67.5°	15226.4	9065.2	149.5	70.0	38.2	22.3	15.9	9.5	3.2	0.0	0.0
69°	14771.5	8165.0	130.4	60.4	31.8	19.1	12.7	6.4	3.2	0.0	0.0
70°	13941.3	7465.3	114.5	50.9	28.6	19.1	9.5	6.4	3.2	0.0	0.0
72.5°	11660.7	5725.4	89.1	38.2	22.3	15.9	9.5	6.4	0.0	0.0	0.0
75°	8553.1	3537.0	66.8	28.6	19.1	12.7	9.5	6.4	0.0	0.0	0.0
77.5°	4583.5	1291.4	47.7	19.1	12.7	9.5	9.5	6.4	0.0	0.0	0.0
80°	1256.4	381.7	35.0	12.7	9.5	6.4	6.4	3.2	0.0	0.0	0.0
82.5°	343.5	98.6	22.3	12.7	9.5	6.4	3.2	0.0	0.0	0.0	0.0
85°	184.5	38.2	12.7	9.5	6.4	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	95.4	12.7	9.5	6.4	6.4	3.2	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)