

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: P483915

Luminaire Tested: **IFLD-L-SA7B-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483915
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

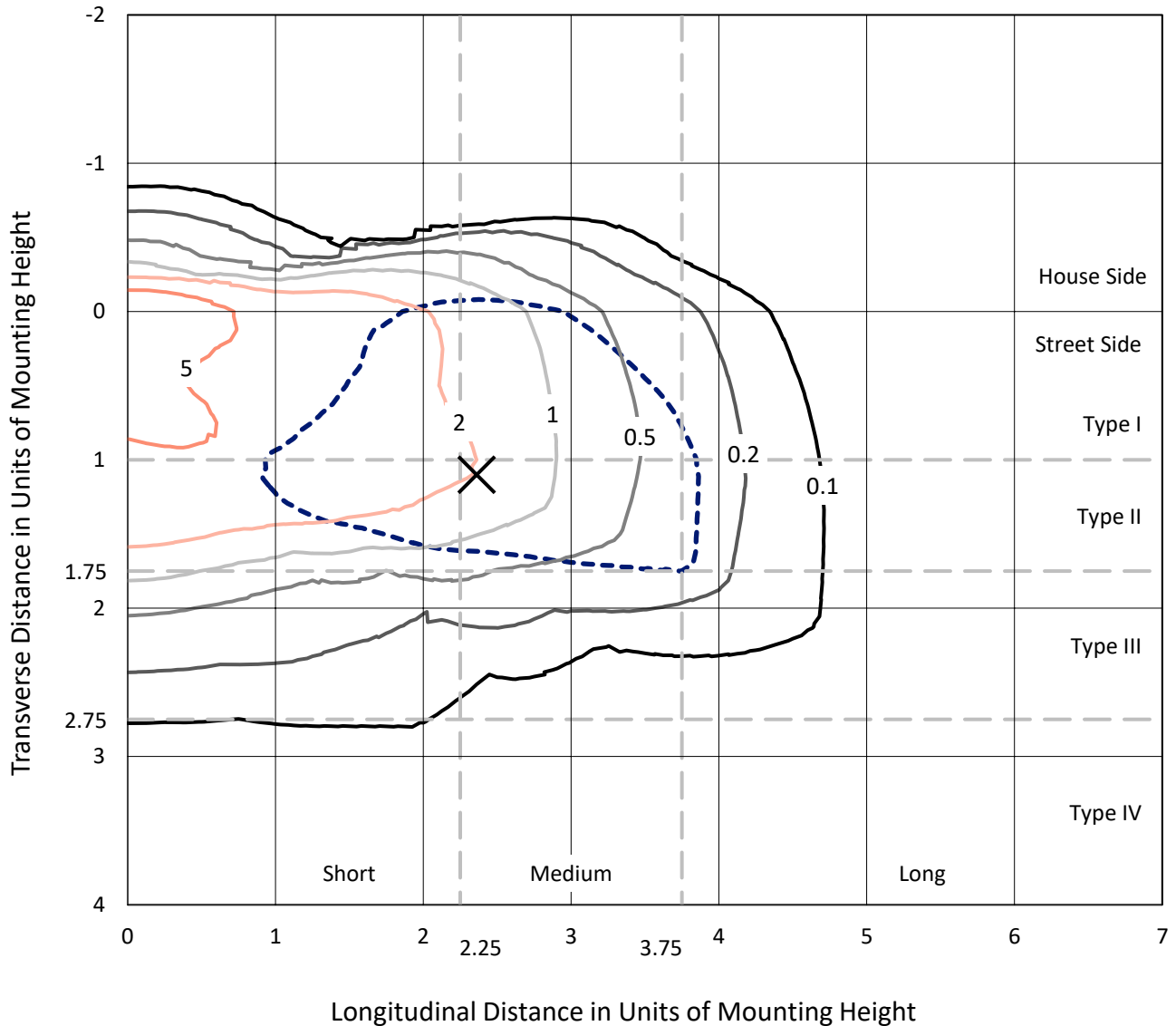
Lumens per Lamp: N/A
Luminaire Lumens: 24512.4 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

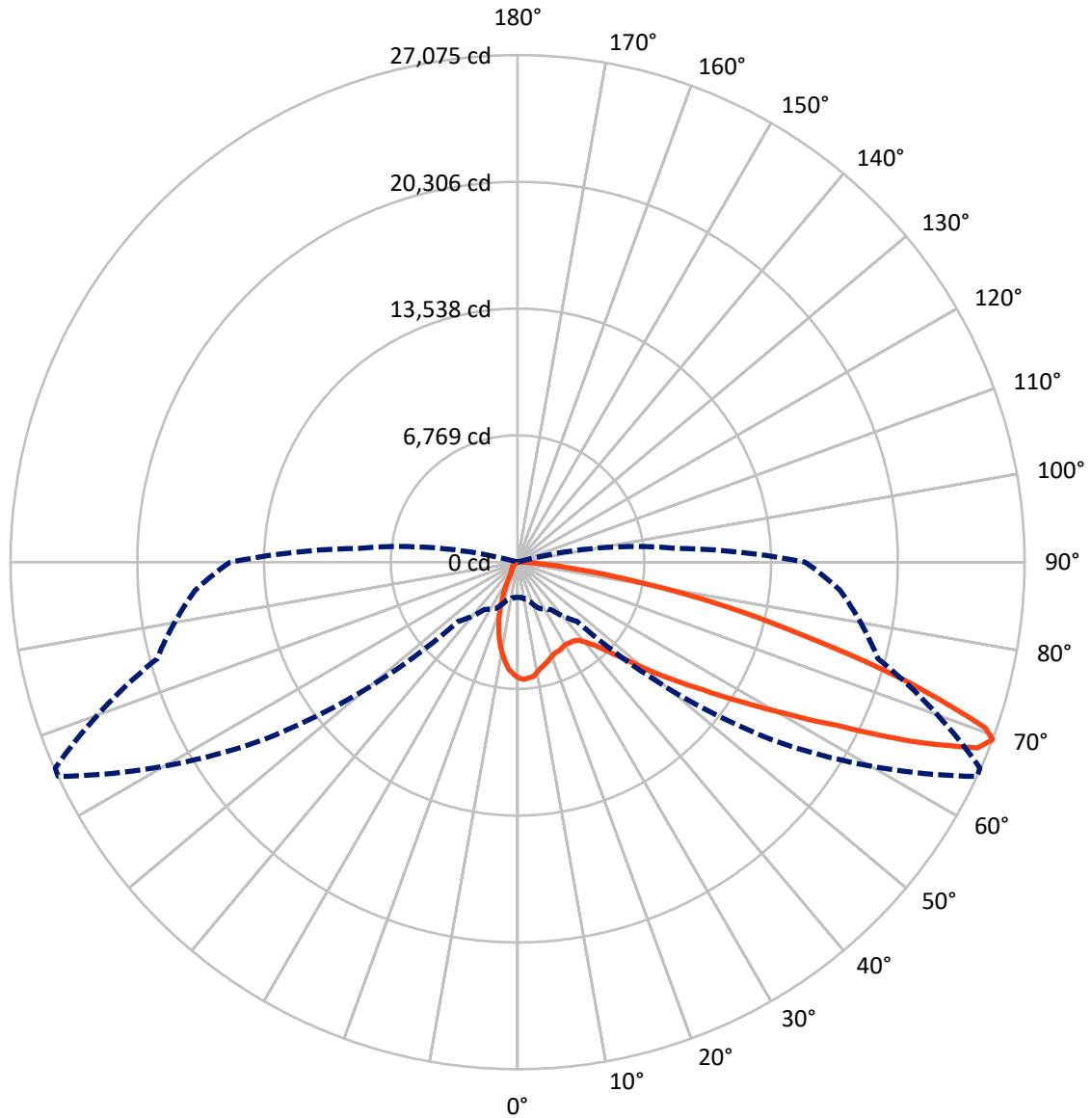
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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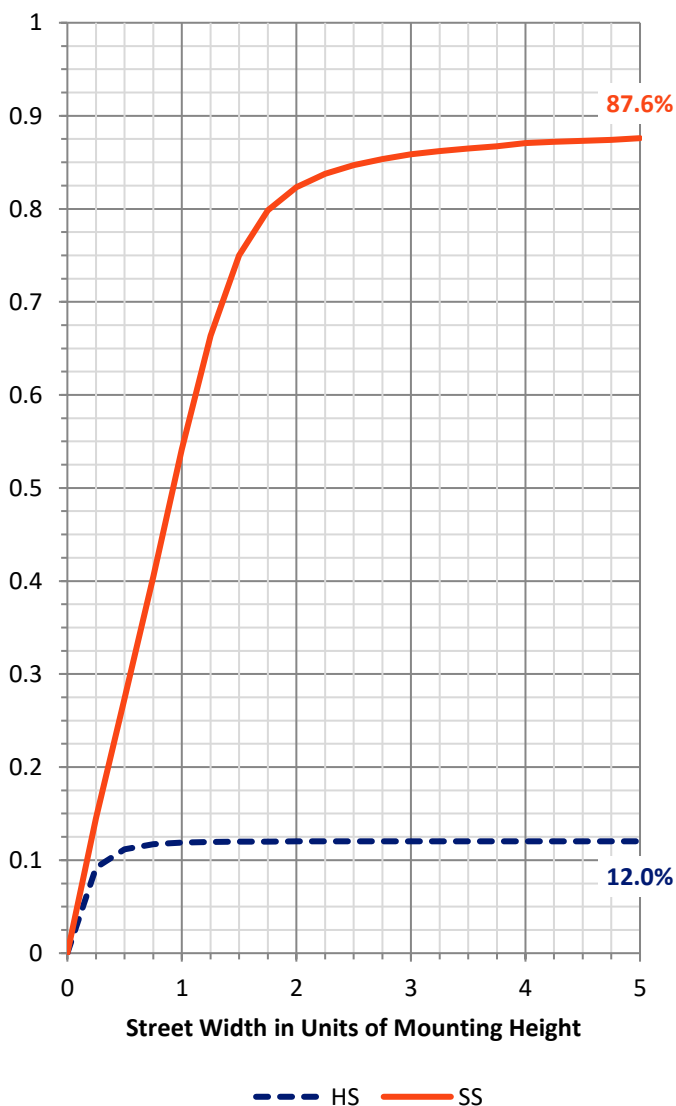
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2973.5	0.0	2973.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	21539.0	0.0	21539.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	24512.4	0.0	24512.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.7	2.1
10°-20°	1106.5	4.5
20°-30°	1540.6	6.3
30°-40°	2183.1	8.9
40°-50°	3440.5	14.0
50°-60°	5582.8	22.8
60°-70°	6234.8	25.4
70°-80°	3510.9	14.3
80°-90°	407.4	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°	24512.4	100.0
0°-180°	24512.4	100.0

Coefficient of Utilization



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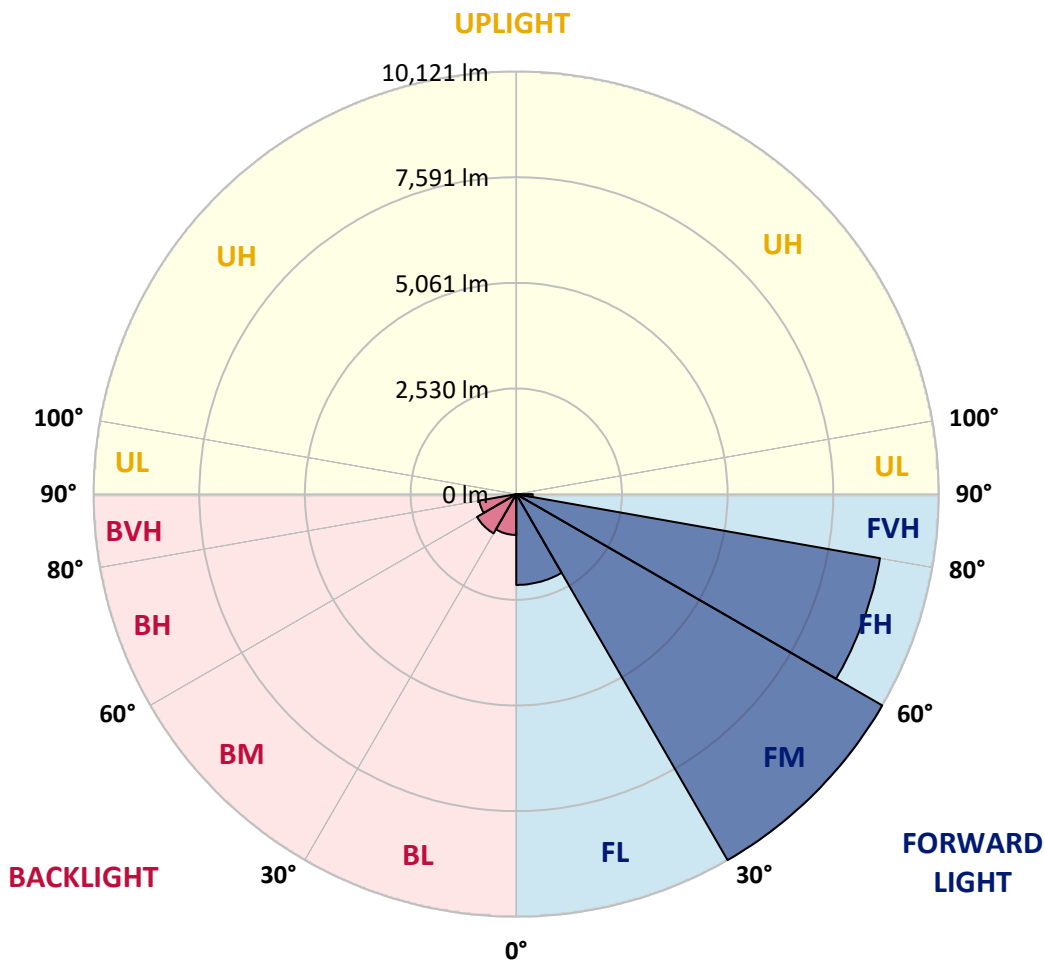
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2175.2	8.9			
FM (30°-60°)	10121.4	41.3			
FH (60°-80°)	8846.1	36.1			G4/12000
FVH (80°-90°)	396.2	1.6			G3/500
BL (0°-30°)	977.6	4.0	B2/1000		
BM (30°-60°)	1085.0	4.4	B2/2500		
BH (60°-80°)	899.6	3.7	B2/1000		G2/1000
BVH (80°-90°)	11.2	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°	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2
2.5°	5952.0	5998.3	6011.5	6057.8	6081.0	6180.2	6236.4	6269.4	6252.9	6289.3	6292.6
5°	5528.7	5502.3	5571.7	5621.3	5727.1	5899.1	6074.3	6209.9	6272.7	6332.3	6322.3
7.5°	5075.7	5062.5	5131.9	5244.4	5340.3	5548.6	5829.7	6163.6	6150.4	6295.9	6338.9
10°	4764.9	4778.1	4801.3	4913.7	5055.9	5267.5	5618.0	5928.9	5998.3	6305.8	6391.8
12.5°	4480.5	4503.7	4546.7	4662.4	4827.7	5046.0	5386.6	5750.3	5856.1	6249.6	6421.5
15°	4387.9	4335.0	4421.0	4507.0	4678.9	4874.0	5161.7	5614.7	5661.0	6183.5	6471.1
17.5°	4311.9	4278.8	4318.5	4387.9	4569.8	4728.5	4999.7	5469.2	5555.2	6157.0	6464.5
20°	4335.0	4305.3	4321.8	4374.7	4457.4	4606.2	4857.5	5330.3	5422.9	6034.7	6454.6
22.5°	4401.2	4424.3	4394.6	4407.8	4434.2	4510.3	4781.4	5231.1	5310.5	6011.5	6510.8
25°	4698.8	4659.1	4619.4	4602.9	4447.5	4480.5	4758.3	5224.5	5280.7	5928.9	6464.5
27.5°	5009.6	4976.5	4960.0	4864.1	4652.5	4553.3	4761.6	5131.9	5208.0	5895.8	6408.3
30°	5386.6	5429.5	5363.4	5247.7	4953.4	4708.7	4798.0	5085.7	5191.5	5770.1	6371.9
32.5°	5783.4	5806.5	5839.6	5753.6	5373.3	4943.5	4907.1	5128.6	5135.3	5770.1	6289.3
35°	6233.1	6200.0	6286.0	6292.6	5958.6	5360.1	5115.4	5158.4	5227.8	5743.7	6259.5
37.5°	6619.9	6676.2	6775.4	6934.1	6590.2	5948.7	5439.5	5297.3	5327.0	5866.0	6282.7
40°	7043.2	7099.4	7324.3	7483.0	7287.9	6610.0	5932.2	5621.3	5644.5	6047.9	6401.7
42.5°	7509.4	7618.6	7886.4	8164.2	8111.3	7449.9	6567.0	6097.5	6087.6	6500.9	6646.4
45°	8141.0	8286.5	8577.5	8898.2	8944.5	8412.2	7413.5	6808.4	6841.5	7092.8	7152.3
47.5°	9020.6	9014.0	9298.3	9655.5	9923.3	9410.8	8425.4	7764.1	7760.7	8028.6	7902.9
50°	9870.4	9873.7	9949.8	10363.1	11057.5	10796.3	9678.6	9033.8	8997.4	9129.7	8928.0
52.5°	10263.9	10217.6	10161.4	10660.7	11930.5	12542.2	11265.8	10472.2	10442.5	10363.1	10310.2
55°	9850.6	9867.1	9863.8	10382.9	12390.1	14384.0	13302.7	12056.1	12006.5	11758.5	11831.3
57.5°	8524.6	8471.7	8587.4	9397.5	11864.3	15640.5	16215.9	14053.3	13924.4	13101.0	12935.7
60°	6345.5	6362.0	6457.9	7413.5	10558.2	15905.1	19003.4	16397.8	15842.2	14046.7	13818.6
62.5°	4430.9	4397.9	4434.2	4969.9	7549.1	14846.9	20888.2	19248.1	18712.4	15121.4	14989.1
65°	3171.1	3128.1	3273.6	3601.0	4533.4	11351.8	21156.1	23044.2	22564.7	16837.5	16520.1
67.5°	2281.6	2275.0	2443.6	3038.8	3220.7	6537.3	19172.1	26483.1	26192.1	18874.5	17452.6
69°	1888.1	1891.4	2053.4	2721.4	3075.2	4464.0	16497.0	27075.0	27022.1	19926.0	17277.3
70°	1646.7	1659.9	1848.4	2532.9	3015.7	3670.4	14222.0	26493.0	26440.1	20131.0	16698.7
72.5°	1015.1	1025.1	1273.1	2030.3	2866.9	2995.8	8504.7	21675.2	21857.1	19191.9	14387.3
75°	486.1	489.4	667.9	1468.2	2764.4	2840.4	4556.6	15994.3	16377.9	15495.0	11242.7
77.5°	257.9	257.9	320.7	780.4	2238.6	2671.8	2704.9	11282.3	11599.8	9797.7	6391.8
80°	129.0	132.3	195.1	406.7	1388.8	2618.9	2113.0	6729.1	6901.0	3997.8	1990.6
82.5°	49.6	52.9	92.6	244.7	720.9	2212.2	1855.0	3310.0	3267.0	935.8	486.1
85°	6.6	6.6	33.1	145.5	307.5	975.5	1531.0	1382.2	1335.9	205.0	234.8
87.5°	0.0	0.0	6.6	43.0	92.6	284.4	591.9	380.3	423.3	56.2	115.7
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°	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2	6180.2
2.5°	6276.1	6206.6	6100.8	5998.3	5889.2	5756.9	5611.4	5558.5	5465.9	5459.3	5512.2
5°	6269.4	6157.0	5971.8	5753.6	5442.8	5208.0	4953.4	4768.2	4626.0	4533.4	4556.6
7.5°	6302.5	6166.9	5846.2	5376.6	4976.5	4510.3	4116.8	3845.7	3597.7	3475.3	3462.1
10°	6249.6	6067.7	5598.2	4940.2	4351.6	3700.2	3124.8	2761.1	2390.7	2255.1	2261.8
12.5°	6279.4	6024.7	5330.3	4490.5	3680.3	2833.8	2146.0	1650.0	1302.8	1190.4	1177.2
15°	6299.2	5932.2	5072.4	3951.5	2936.3	1931.1	1243.3	935.8	826.7	806.8	803.5
17.5°	6223.1	5819.7	4708.7	3419.1	2175.8	1173.9	826.7	763.8	744.0	730.8	724.2
20°	6219.8	5753.6	4394.6	2873.5	1451.6	800.2	714.2	691.1	661.3	651.4	651.4
22.5°	6163.6	5614.7	4017.6	2275.0	925.9	687.8	641.5	605.1	572.1	558.8	555.5
25°	6147.1	5452.7	3663.8	1709.5	704.3	615.0	568.7	515.8	476.2	456.3	446.4
27.5°	6100.8	5313.8	3306.7	1203.6	615.0	548.9	489.4	433.2	386.9	357.1	353.8
30°	5935.5	5168.3	2909.9	833.3	558.8	486.1	419.9	353.8	307.5	287.7	281.1
32.5°	5866.0	5032.7	2476.7	641.5	509.2	429.9	353.8	294.3	257.9	238.1	234.8
35°	5783.4	4834.3	2056.7	558.8	462.9	373.7	297.6	248.0	218.2	201.7	201.7
37.5°	5793.3	4675.6	1663.3	505.9	413.3	320.7	254.6	211.6	185.2	168.6	168.6
40°	5763.5	4550.0	1292.9	459.6	367.0	274.5	214.9	178.6	155.4	138.9	135.6
42.5°	5899.1	4516.9	975.5	419.9	320.7	234.8	185.2	152.1	129.0	109.1	109.1
45°	6127.3	4569.8	760.5	383.6	274.5	201.7	158.7	125.7	102.5	89.3	86.0
47.5°	6735.7	4778.1	595.2	353.8	234.8	175.3	132.3	102.5	82.7	69.4	66.1
50°	7618.6	5244.4	505.9	310.8	198.4	148.8	109.1	79.4	66.1	52.9	49.6
52.5°	8875.1	6028.1	459.6	274.5	165.3	122.3	86.0	62.8	49.6	39.7	36.4
55°	10244.1	7006.8	416.6	231.5	138.9	99.2	69.4	49.6	36.4	26.5	23.1
57.5°	11312.1	7853.3	380.3	191.8	112.4	79.4	52.9	36.4	26.5	16.5	13.2
60°	12479.4	8448.5	334.0	152.1	92.6	59.5	39.7	26.5	19.8	9.9	9.9
62.5°	13683.0	9146.2	274.5	119.0	72.7	46.3	29.8	19.8	13.2	3.3	3.3
65°	15356.2	9691.8	211.6	92.6	56.2	33.1	23.1	16.5	6.6	0.0	0.0
67.5°	15829.0	9424.0	155.4	72.7	39.7	23.1	16.5	9.9	3.3	0.0	0.0
69°	15356.2	8488.2	135.6	62.8	33.1	19.8	13.2	6.6	3.3	0.0	0.0
70°	14493.1	7760.7	119.0	52.9	29.8	19.8	9.9	6.6	3.3	0.0	0.0
72.5°	12122.2	5952.0	92.6	39.7	23.1	16.5	9.9	6.6	0.0	0.0	0.0
75°	8891.6	3677.0	69.4	29.8	19.8	13.2	9.9	6.6	0.0	0.0	0.0
77.5°	4764.9	1342.5	49.6	19.8	13.2	9.9	9.9	6.6	0.0	0.0	0.0
80°	1306.1	396.8	36.4	13.2	9.9	6.6	6.6	3.3	0.0	0.0	0.0
82.5°	357.1	102.5	23.1	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0
85°	191.8	39.7	13.2	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	99.2	13.2	9.9	6.6	6.6	3.3	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)