

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: P484763

Luminaire Tested: **IFLD-S-SA6B-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484763
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

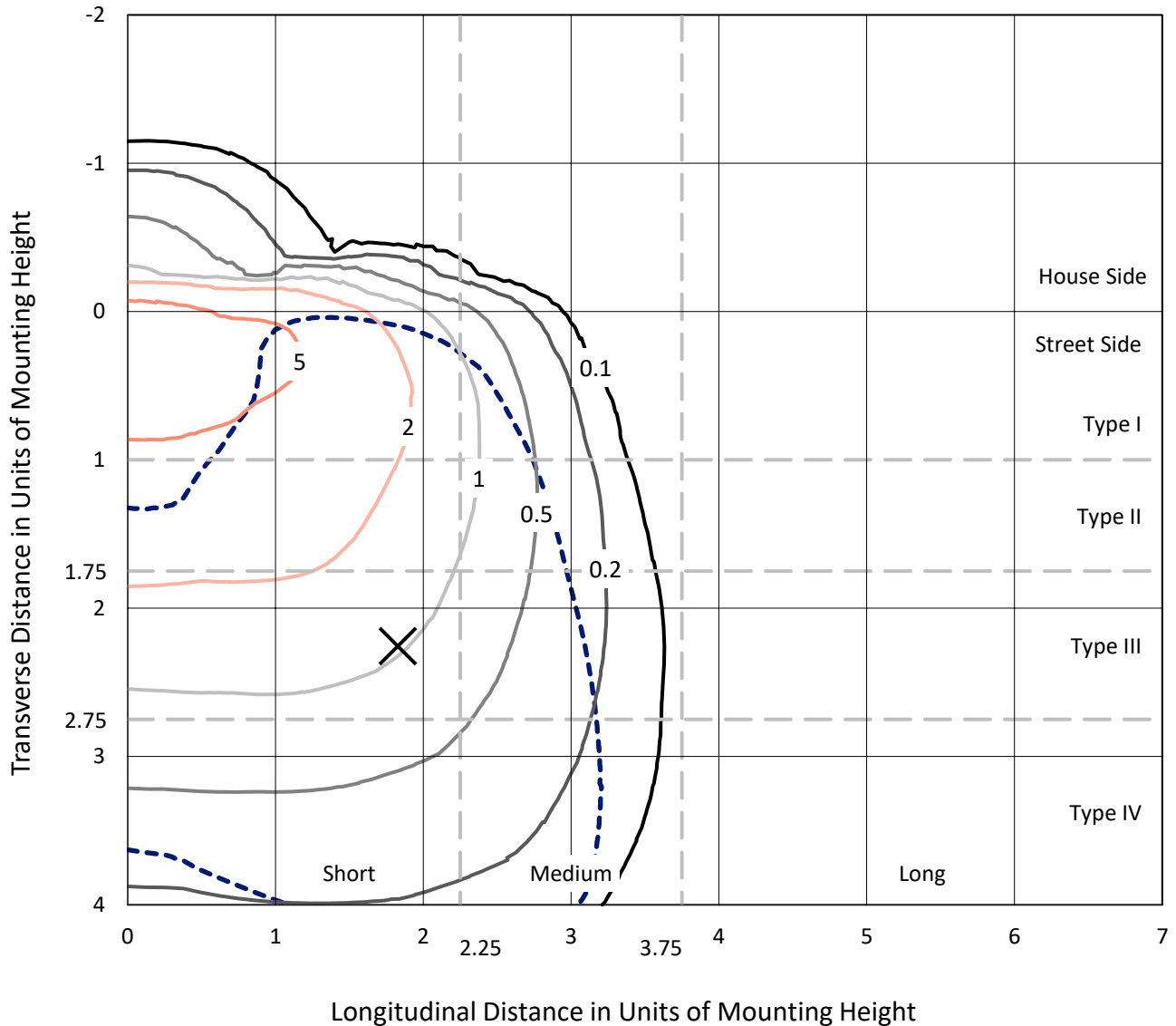
Lumens per Lamp: N/A
Luminaire Lumens: 27197.7 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

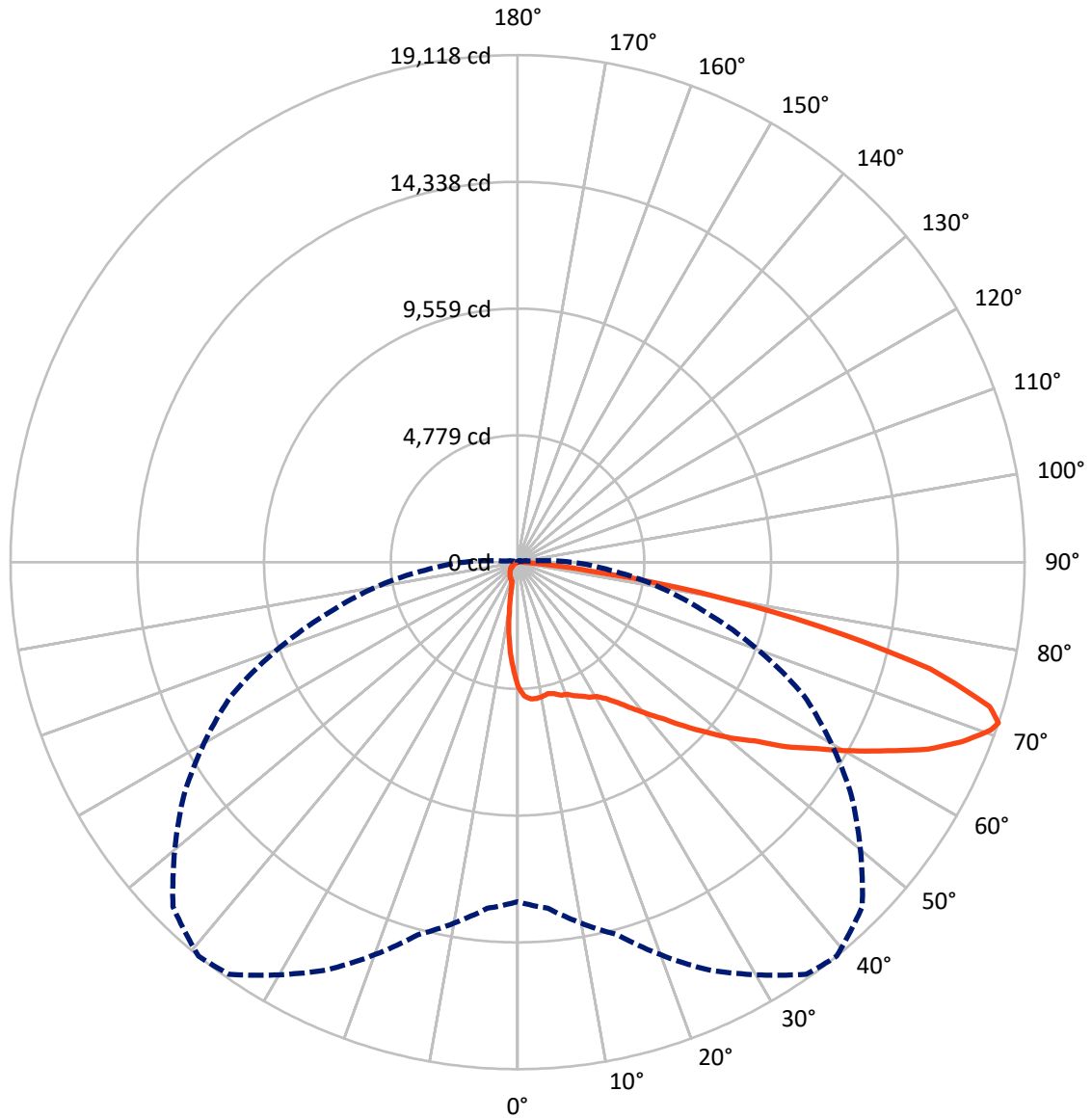
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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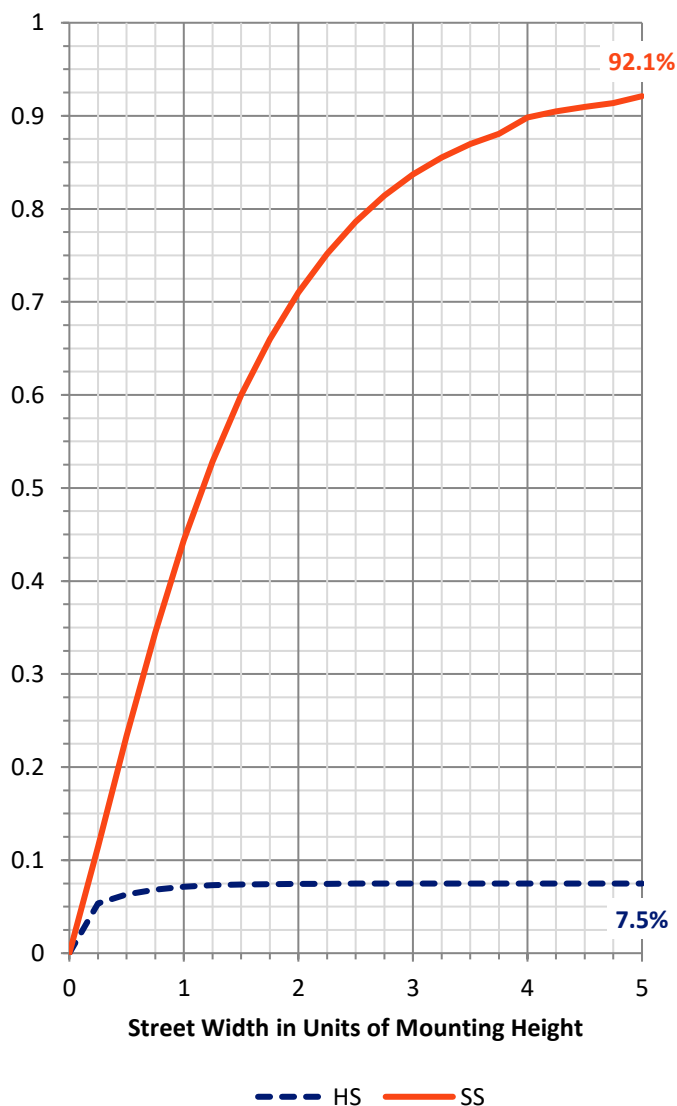
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2047.6	0.0	2047.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	25150.2	0.0	25150.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	27197.7	0.0	27197.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.8	1.5
10°-20°	974.2	3.6
20°-30°	1563.9	5.8
30°-40°	2393.9	8.8
40°-50°	3842.7	14.1
50°-60°	5644.2	20.8
60°-70°	7108.7	26.1
70°-80°	4744.2	17.4
80°-90°	530.2	1.9
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°	27197.7	100.0
0°-180°	27197.7	100.0

Coefficient of Utilization



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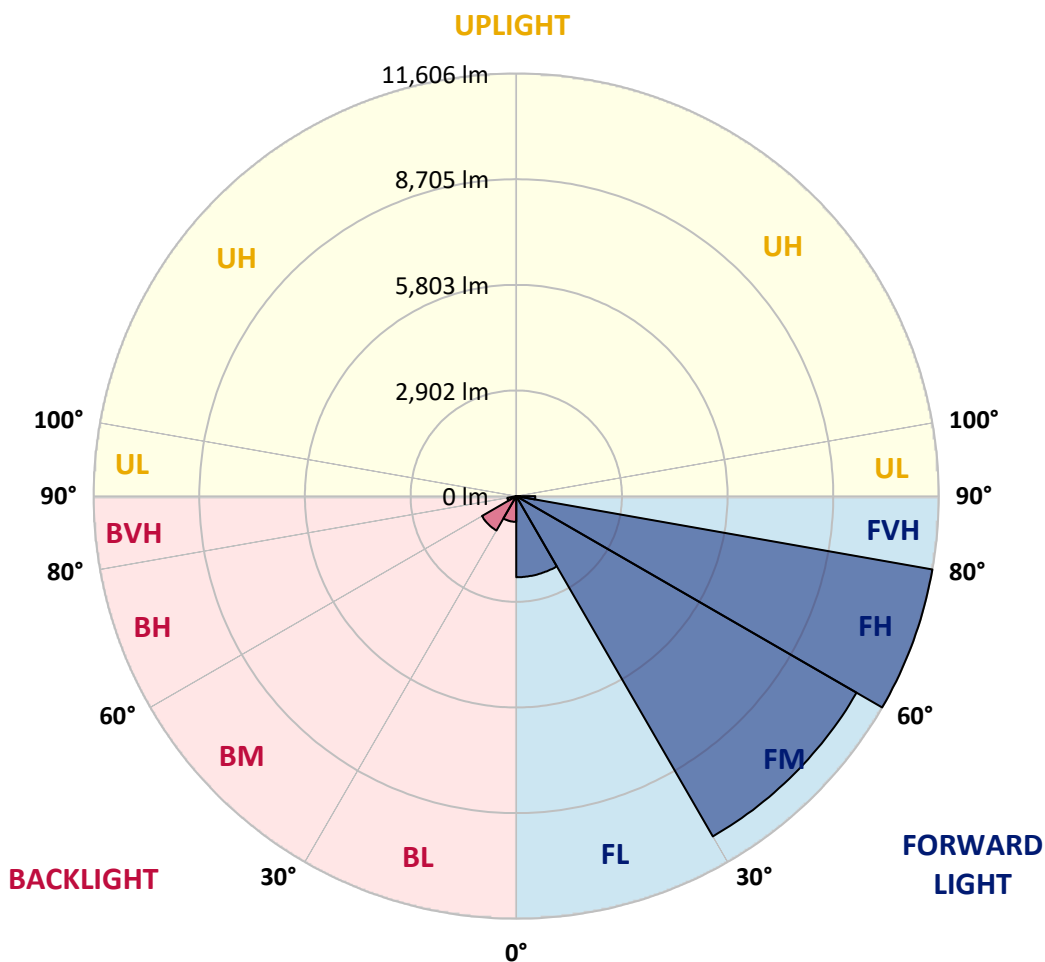
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2226.9	8.2			
FM (30°-60°)	10792.5	39.7			
FH (60°-80°)	11606.5	42.7			G4/12000
FVH (80°-90°)	524.3	1.9			G4/750
BL (0°-30°)	706.9	2.6	B2/1000		
BM (30°-60°)	1088.4	4.0	B2/2500		
BH (60°-80°)	246.4	0.9	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9
2.5°	5101.4	5151.3	5101.4	5080.0	5058.6	5062.1	5005.1	5015.8	4948.0	4858.8	4787.5
5°	5261.9	5329.7	5276.2	5251.2	5247.6	5179.9	5151.3	5083.5	5001.5	4862.4	4776.8
7.5°	5247.6	5233.4	5258.3	5236.9	5190.6	5190.6	5158.5	5062.1	4980.1	4823.1	4676.9
10°	5140.6	5183.4	5162.0	5137.1	5147.8	5151.3	5090.7	5022.9	4997.9	4841.0	4601.9
12.5°	5129.9	5058.6	5137.1	5140.6	5094.2	5090.7	5083.5	5065.7	4987.2	4844.5	4619.8
15°	5094.2	5065.7	5144.2	5147.8	5158.5	5147.8	5158.5	5144.2	5065.7	4983.7	4698.3
17.5°	5122.8	5090.7	5201.3	5254.8	5229.8	5279.8	5261.9	5197.7	5129.9	5033.6	4773.2
20°	5129.9	5176.3	5297.6	5319.0	5397.5	5315.4	5311.9	5244.1	5201.3	5097.8	4819.6
22.5°	5261.9	5283.3	5433.2	5479.5	5483.1	5472.4	5383.2	5304.7	5286.9	5158.5	4830.3
25°	5461.7	5536.6	5604.4	5632.9	5643.6	5593.7	5500.9	5401.0	5358.2	5276.2	4940.9
27.5°	5814.9	5768.5	5829.1	5871.9	5750.7	5768.5	5650.8	5565.1	5504.5	5433.2	5069.3
30°	6128.8	6086.0	6089.6	6082.4	5979.0	5882.6	5850.5	5700.7	5625.8	5654.3	5269.1
32.5°	6410.6	6317.9	6396.4	6360.7	6168.0	6139.5	6114.5	5925.5	5939.7	6071.7	5568.7
35°	6671.0	6638.9	6703.1	6638.9	6510.5	6503.4	6478.4	6314.3	6392.8	6581.9	6082.4
37.5°	6910.1	6920.8	6999.2	6967.1	6977.8	6985.0	6970.7	6795.9	7020.6	7445.2	6681.7
40°	7131.2	7117.0	7309.6	7409.5	7430.9	7509.4	7509.4	7466.6	7812.6	8290.6	7512.9
42.5°	7366.7	7402.4	7652.1	7819.7	8023.1	8090.9	8183.6	8205.0	8740.1	9285.9	8362.0
45°	7752.0	7691.3	8008.8	8404.8	8583.2	8822.2	8964.9	9086.2	9731.9	10481.0	9211.0
47.5°	8240.7	8119.4	8397.7	8972.0	9385.8	9582.0	9838.9	9999.4	10630.9	11405.0	10013.7
50°	8782.9	8658.1	8793.6	9585.6	10067.2	10423.9	10752.1	10955.5	11718.9	12439.5	10598.7
52.5°	9396.5	9282.4	9303.8	10224.2	10934.1	11194.5	11626.2	11929.4	12689.2	13063.8	10805.7
55°	10049.4	10020.8	9953.0	10848.5	11693.9	12279.0	12539.4	12903.3	13684.6	13402.7	11030.4
57.5°	10705.8	10616.6	10712.9	11676.1	12914.0	13263.6	13623.9	13841.5	14237.5	13698.8	10944.8
60°	11322.9	11330.1	11465.6	12575.1	13952.1	14448.0	14772.6	14640.6	14804.7	13827.2	10748.6
62.5°	11843.8	11829.5	12172.0	13584.7	15325.6	15660.9	15903.5	15314.9	15068.7	13952.1	10406.1
65°	12311.1	12471.6	13010.3	14786.9	16617.0	17002.2	16856.0	15953.4	15325.6	13584.7	9442.9
67.5°	12664.3	12903.3	13837.9	15917.7	17801.3	18072.5	17869.1	16438.6	15022.3	12143.4	7691.3
70°	12871.2	13113.8	14430.1	16859.5	18746.7	18942.9	18464.9	16064.0	13252.9	8793.6	4798.2
71°	12807.0	13103.1	14544.3	16959.4	18971.4	19117.7	18375.7	15371.9	11918.7	7363.1	3499.6
72.5°	12225.5	12503.7	14069.8	16888.1	18700.3	18611.1	17680.0	13709.5	9382.3	4694.7	1808.7
75°	8982.7	9282.4	12075.7	14608.5	16691.9	16078.3	14308.8	9621.3	4894.5	1437.7	528.0
77.5°	4473.5	4523.5	7495.1	10605.9	12243.3	11633.3	9589.2	5365.4	1830.1	424.5	264.0
80°	2062.0	2076.2	2811.1	5493.8	7402.4	6967.1	5372.5	2647.0	827.6	224.7	206.9
82.5°	1405.6	1427.0	1694.5	2276.0	3214.2	2711.2	2176.1	1694.5	474.5	135.6	203.3
85°	256.9	235.4	948.9	1205.8	1241.5	841.9	752.7	1466.2	178.4	78.5	178.4
87.5°	0.0	3.6	132.0	492.3	442.4	196.2	256.9	356.7	17.8	25.0	32.1
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°	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9	4733.9
2.5°	4726.8	4687.6	4555.6	4409.3	4277.3	4173.9	4041.9	3981.2	3884.9	3831.4	3827.8
5°	4659.0	4552.0	4323.7	4077.5	3802.8	3574.5	3321.3	3178.6	3014.5	2964.5	2953.8
7.5°	4544.9	4391.5	4056.1	3710.1	3289.1	2886.0	2575.7	2243.9	2040.6	1954.9	1922.8
10°	4473.5	4288.0	3831.4	3314.1	2725.5	2158.3	1723.1	1369.9	1184.4	1095.2	1073.8
12.5°	4473.5	4273.7	3649.5	2936.0	2154.7	1476.9	1066.7	863.3	802.7	781.3	781.3
15°	4462.8	4245.2	3474.6	2547.1	1594.6	991.7	795.5	752.7	745.6	742.0	738.5
17.5°	4516.3	4195.3	3296.3	2129.7	1127.3	781.3	731.3	724.2	717.0	717.0	709.9
20°	4555.6	4166.7	3082.2	1687.4	841.9	724.2	702.8	692.1	688.5	684.9	692.1
22.5°	4523.5	4123.9	2818.2	1262.9	734.9	688.5	674.2	663.5	656.4	656.4	660.0
25°	4584.1	4084.7	2554.3	952.5	688.5	656.4	642.1	635.0	631.4	627.9	620.7
27.5°	4666.2	4102.5	2240.3	767.0	649.3	624.3	610.0	602.9	599.3	592.2	599.3
30°	4766.0	4098.9	1894.3	670.7	613.6	588.6	574.4	570.8	563.6	560.1	563.6
32.5°	4937.3	4191.7	1537.5	620.7	574.4	552.9	538.7	535.1	531.5	528.0	524.4
35°	5304.7	4305.9	1202.2	581.5	538.7	513.7	503.0	495.9	492.3	488.7	485.2
37.5°	5757.8	4559.1	916.8	545.8	503.0	478.0	467.3	463.8	449.5	445.9	442.4
40°	6325.0	4830.3	706.3	506.6	470.9	445.9	435.2	424.5	406.7	399.5	392.4
42.5°	7031.3	5094.2	581.5	470.9	435.2	417.4	399.5	381.7	367.4	353.2	346.0
45°	7737.7	5401.0	510.1	438.8	406.7	385.3	371.0	346.0	321.1	299.7	296.1
47.5°	8326.3	5511.6	467.3	403.1	378.1	360.3	338.9	306.8	271.1	249.7	246.2
50°	8765.1	5447.4	424.5	367.4	346.0	328.2	299.7	260.4	224.7	203.3	196.2
52.5°	8850.7	5165.6	385.3	338.9	313.9	292.5	260.4	217.6	178.4	157.0	153.4
55°	8790.1	4698.3	353.2	313.9	285.4	253.3	217.6	174.8	139.1	117.7	114.2
57.5°	8665.2	4145.3	317.5	281.8	249.7	217.6	178.4	142.7	103.5	82.1	82.1
60°	8240.7	3392.6	281.8	246.2	214.0	185.5	146.3	103.5	71.3	53.5	49.9
62.5°	7648.5	2607.8	246.2	210.5	185.5	153.4	114.2	74.9	42.8	28.5	28.5
65°	6567.6	1826.5	206.9	174.8	153.4	124.9	85.6	46.4	25.0	10.7	10.7
67.5°	4990.8	1130.9	171.2	146.3	132.0	99.9	60.6	28.5	10.7	3.6	0.0
70°	2864.6	588.6	135.6	117.7	103.5	74.9	42.8	14.3	7.1	0.0	0.0
71°	2001.3	435.2	121.3	103.5	92.8	67.8	35.7	10.7	3.6	0.0	0.0
72.5°	1002.4	289.0	103.5	85.6	74.9	53.5	28.5	10.7	3.6	0.0	0.0
75°	356.7	185.5	71.3	57.1	53.5	39.2	17.8	7.1	3.6	0.0	0.0
77.5°	246.2	149.8	49.9	35.7	35.7	25.0	10.7	3.6	3.6	0.0	0.0
80°	224.7	82.1	32.1	21.4	17.8	14.3	7.1	3.6	0.0	0.0	0.0
82.5°	224.7	60.6	17.8	14.3	10.7	7.1	3.6	0.0	0.0	0.0	0.0
85°	157.0	32.1	10.7	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	25.0	10.7	7.1	3.6	3.6	0.0	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)