

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: P484154

Luminaire Tested: **IFLD-L-SA8B-827-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484154
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

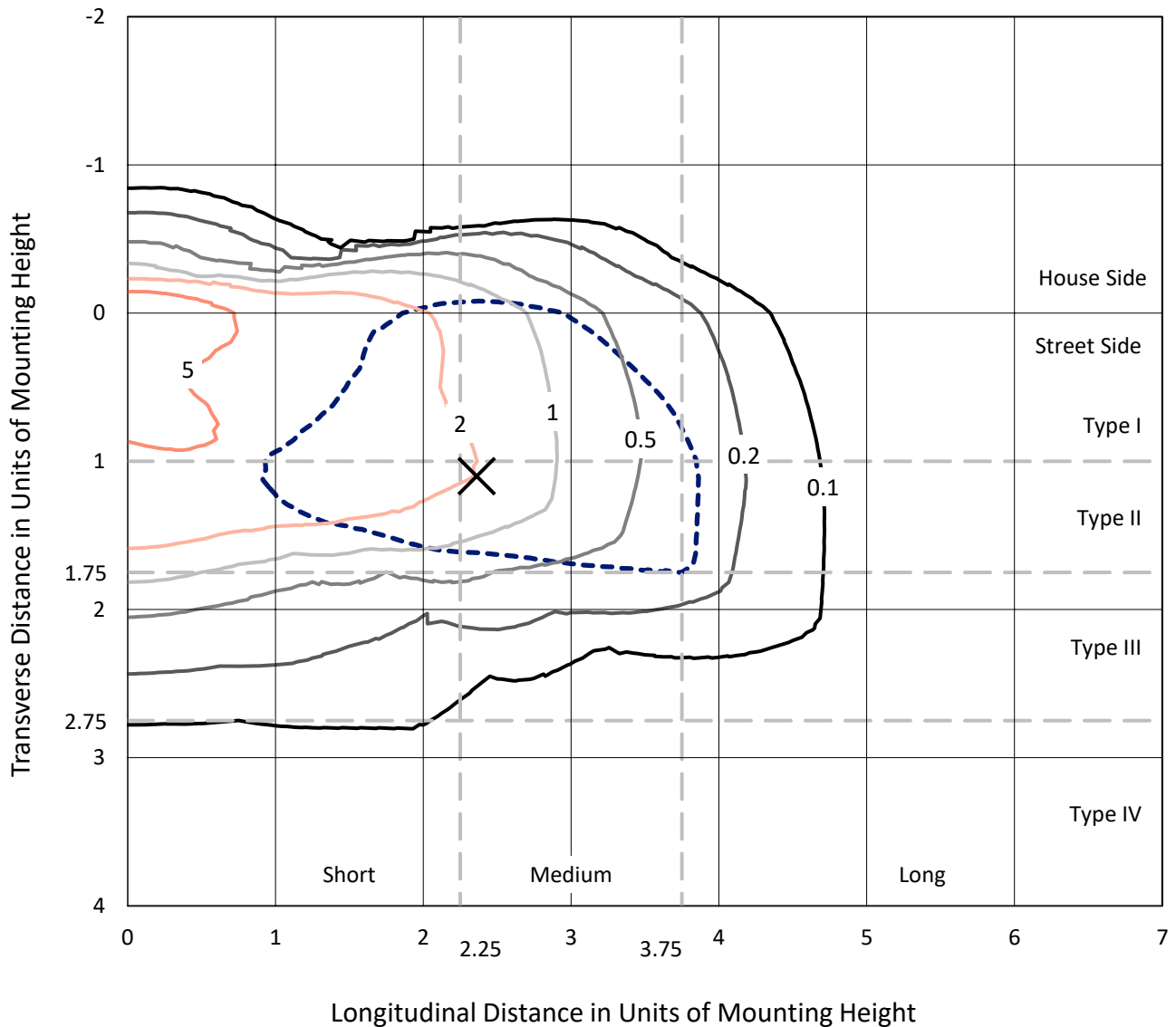
Lumens per Lamp: N/A
Luminaire Lumens: 24623.7 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

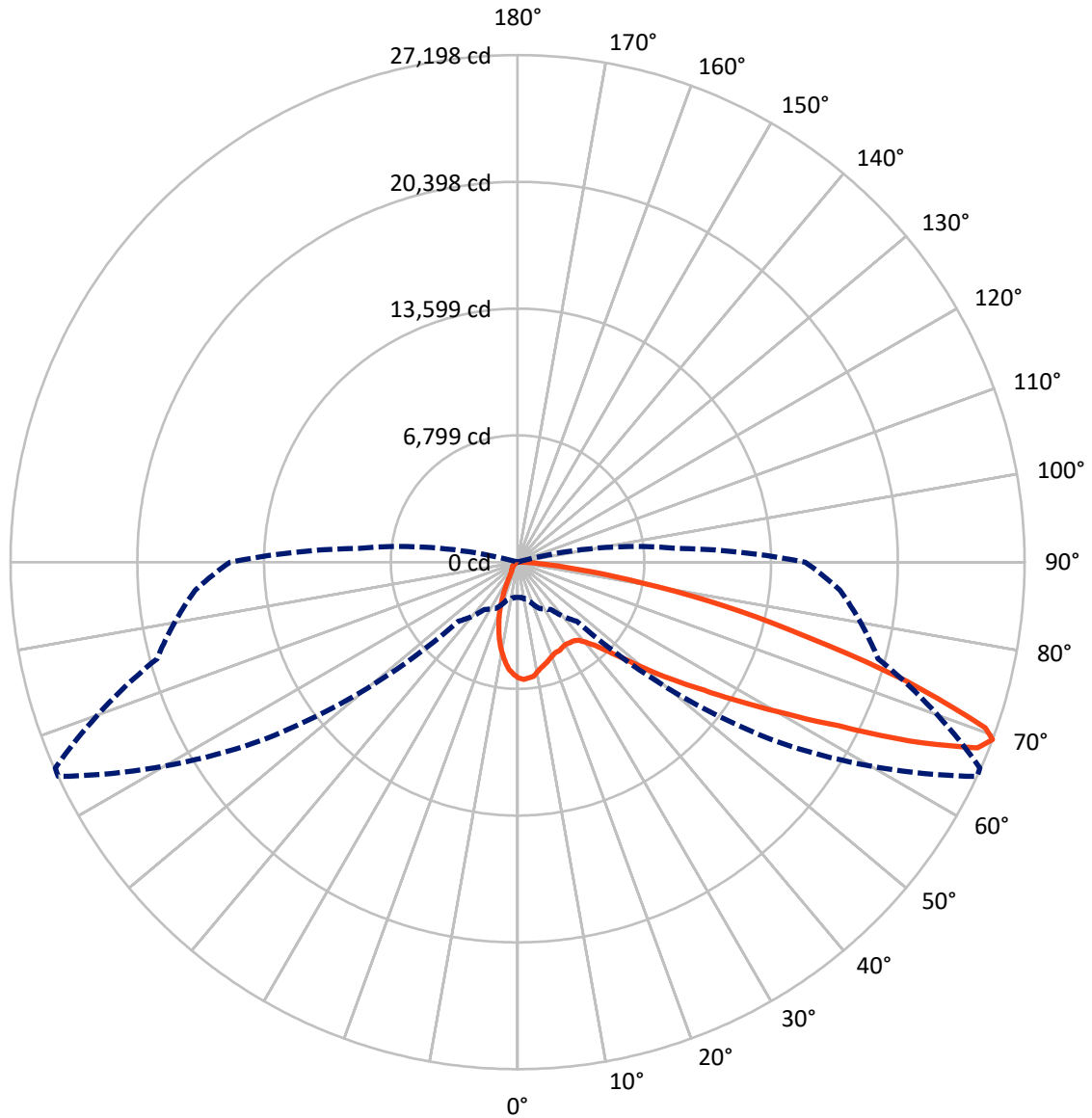
× Max cd
 - - - 1/2 Max cd



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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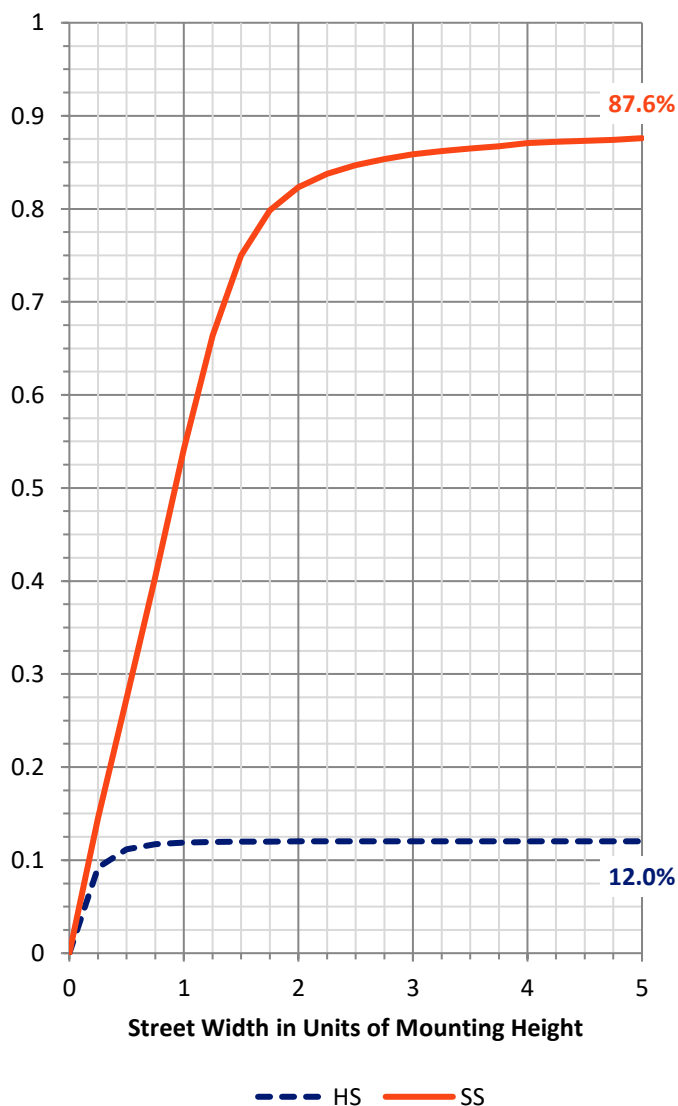
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2987.0	0.0	2987.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	21636.7	0.0	21636.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	24623.7	0.0	24623.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.0	2.1
10°-20°	1111.6	4.5
20°-30°	1547.6	6.3
30°-40°	2193.0	8.9
40°-50°	3456.1	14.0
50°-60°	5608.1	22.8
60°-70°	6263.2	25.4
70°-80°	3526.9	14.3
80°-90°	409.2	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°	24623.7	100.0
0°-180°	24623.7	100.0

Coefficient of Utilization



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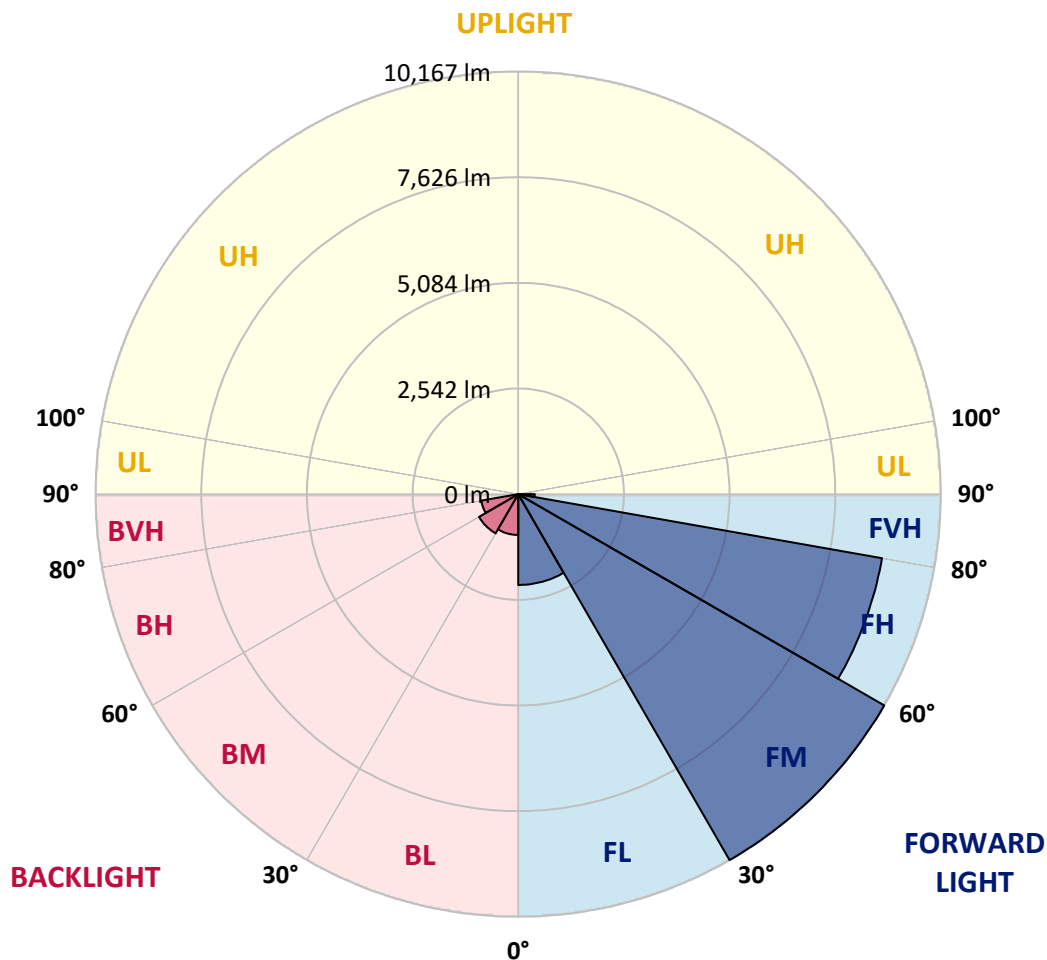
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2185.1	8.9			
FM (30°-60°)	10167.4	41.3			
FH (60°-80°)	8886.3	36.1			G4/12000
FVH (80°-90°)	398.0	1.6			G3/500
BL (0°-30°)	982.0	4.0	B2/1000		
BM (30°-60°)	1089.9	4.4	B2/2500		
BH (60°-80°)	903.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	11.3	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°	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2
2.5°	5979.0	6025.5	6038.8	6085.3	6108.6	6208.2	6264.7	6297.9	6281.3	6317.8	6321.2
5°	5553.8	5527.3	5597.0	5646.9	5753.2	5925.9	6101.9	6238.1	6301.2	6361.0	6351.1
7.5°	5098.8	5085.5	5155.2	5268.2	5364.5	5573.8	5856.1	6191.6	6178.3	6324.5	6367.7
10°	4786.5	4799.8	4823.1	4936.0	5078.8	5291.4	5643.5	5955.8	6025.5	6334.4	6420.8
12.5°	4500.9	4524.1	4567.3	4683.6	4849.7	5068.9	5411.0	5776.4	5882.7	6278.0	6450.7
15°	4407.9	4354.7	4441.1	4527.5	4700.2	4896.2	5185.1	5640.2	5686.7	6211.5	6500.5
17.5°	4331.5	4298.3	4338.1	4407.9	4590.6	4750.0	5022.4	5494.1	5580.4	6185.0	6493.9
20°	4354.7	4324.8	4341.4	4394.6	4477.6	4627.1	4879.5	5354.5	5447.6	6062.1	6483.9
22.5°	4421.2	4444.4	4414.5	4427.8	4454.4	4530.8	4803.1	5254.9	5334.6	6038.8	6540.4
25°	4720.1	4680.2	4640.4	4623.8	4467.7	4500.9	4779.9	5248.3	5304.7	5955.8	6493.9
27.5°	5032.3	4999.1	4982.5	4886.2	4673.6	4574.0	4783.2	5155.2	5231.6	5922.6	6437.4
30°	5411.0	5454.2	5387.8	5271.5	4975.9	4730.1	4819.8	5108.7	5215.0	5796.3	6400.9
32.5°	5809.6	5832.9	5866.1	5779.7	5397.7	4965.9	4929.4	5151.9	5158.6	5796.3	6317.8
35°	6261.4	6228.2	6314.5	6321.2	5985.7	5384.4	5138.6	5181.8	5251.6	5769.8	6287.9
37.5°	6650.0	6706.5	6806.1	6965.6	6620.1	5975.7	5464.2	5321.3	5351.2	5892.7	6311.2
40°	7075.2	7131.6	7357.5	7517.0	7321.0	6640.0	5959.1	5646.9	5670.1	6075.4	6430.8
42.5°	7543.5	7653.2	7922.2	8201.2	8148.1	7483.7	6596.9	6125.2	6115.2	6530.4	6676.6
45°	8178.0	8324.1	8616.4	8938.6	8985.1	8450.4	7447.2	6839.3	6872.6	7125.0	7184.8
47.5°	9061.5	9054.9	9340.6	9699.3	9968.4	9453.5	8463.6	7799.3	7796.0	8065.0	7938.8
50°	9915.2	9918.5	9994.9	10410.1	11107.7	10845.3	9722.6	9074.8	9038.3	9171.2	8968.5
52.5°	10310.5	10264.0	10207.5	10709.1	11984.6	12599.1	11317.0	10519.8	10489.9	10410.1	10357.0
55°	9895.3	9911.9	9908.6	10430.1	12446.3	14449.3	13363.1	12110.8	12061.0	11811.9	11885.0
57.5°	8563.3	8510.1	8626.4	9440.2	11918.2	15711.5	16289.5	14117.1	13987.6	13160.5	12994.4
60°	6374.3	6390.9	6487.2	7447.2	10606.1	15977.3	19089.7	16472.2	15914.2	14110.5	13881.3
62.5°	4451.1	4417.8	4454.4	4992.5	7583.4	14914.3	20983.1	19335.5	18797.4	15190.0	15057.2
65°	3185.5	3142.3	3288.5	3617.3	4554.0	11403.3	21252.1	23148.8	22667.1	16914.0	16595.1
67.5°	2292.0	2285.3	2454.7	3052.6	3235.3	6567.0	19259.1	26603.3	26311.0	18960.2	17531.8
69°	1896.7	1900.0	2062.8	2733.7	3089.2	4484.3	16571.9	27197.9	27144.8	20016.4	17355.8
70°	1654.2	1667.5	1856.8	2544.4	3029.4	3687.1	14286.5	26613.3	26560.2	20222.4	16774.5
72.5°	1019.8	1029.7	1278.8	2039.5	2879.9	3009.4	8543.4	21773.6	21956.3	19279.0	14452.6
75°	488.3	491.6	671.0	1474.8	2776.9	2853.3	4577.3	16067.0	16452.3	15565.4	11293.7
77.5°	259.1	259.1	322.2	783.9	2248.8	2683.9	2717.1	11333.6	11652.5	9842.1	6420.8
80°	129.5	132.9	196.0	408.6	1395.1	2630.8	2122.6	6759.6	6932.3	4015.9	1999.7
82.5°	49.8	53.1	93.0	245.8	724.1	2222.2	1863.5	3325.0	3281.8	940.0	488.3
85°	6.6	6.6	33.2	146.2	308.9	979.9	1537.9	1388.5	1342.0	205.9	235.8
87.5°	0.0	0.0	6.6	43.2	93.0	285.7	594.6	382.0	425.2	56.5	116.3
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°	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2	6208.2
2.5°	6304.5	6234.8	6128.5	6025.5	5915.9	5783.0	5636.9	5583.7	5490.7	5484.1	5537.2
5°	6297.9	6185.0	5999.0	5779.7	5467.5	5231.6	4975.9	4789.9	4647.0	4554.0	4577.3
7.5°	6331.1	6194.9	5872.7	5401.1	4999.1	4530.8	4135.5	3863.1	3614.0	3491.1	3477.8
10°	6278.0	6095.3	5623.6	4962.6	4371.3	3717.0	3139.0	2773.6	2401.6	2265.4	2272.0
12.5°	6307.9	6052.1	5354.5	4510.8	3697.0	2846.7	2155.8	1657.5	1308.7	1195.8	1182.5
15°	6327.8	5959.1	5095.5	3969.4	2949.7	1939.9	1249.0	940.0	830.4	810.5	807.2
17.5°	6251.4	5846.2	4730.1	3434.6	2185.7	1179.2	830.4	767.3	747.4	734.1	727.4
20°	6248.1	5779.7	4414.5	2886.5	1458.2	803.8	717.5	694.2	664.3	654.4	654.4
22.5°	6191.6	5640.2	4035.8	2285.3	930.1	690.9	644.4	607.9	574.7	561.4	558.0
25°	6175.0	5477.5	3680.4	1717.3	707.5	617.8	571.3	518.2	478.3	458.4	448.4
27.5°	6128.5	5337.9	3321.7	1209.1	617.8	551.4	491.6	435.1	388.6	358.7	355.4
30°	5962.4	5191.8	2923.1	837.1	561.4	488.3	421.9	355.4	308.9	289.0	282.3
32.5°	5892.7	5055.6	2487.9	644.4	511.5	431.8	355.4	295.6	259.1	239.2	235.8
35°	5809.6	4856.3	2066.1	561.4	465.0	375.3	299.0	249.1	219.2	202.6	202.6
37.5°	5819.6	4696.9	1670.8	508.2	415.2	322.2	255.8	212.6	186.0	169.4	169.4
40°	5789.7	4570.6	1298.8	461.7	368.7	275.7	215.9	179.4	156.1	139.5	136.2
42.5°	5925.9	4537.4	979.9	421.9	322.2	235.8	186.0	152.8	129.5	109.6	109.6
45°	6155.1	4590.6	764.0	385.3	275.7	202.6	159.4	126.2	103.0	89.7	86.4
47.5°	6766.3	4799.8	597.9	355.4	235.8	176.0	132.9	103.0	83.0	69.8	66.4
50°	7653.2	5268.2	508.2	312.2	199.3	149.5	109.6	79.7	66.4	53.1	49.8
52.5°	8915.4	6055.4	461.7	275.7	166.1	122.9	86.4	63.1	49.8	39.9	36.5
55°	10290.6	7038.6	418.5	232.5	139.5	99.7	69.8	49.8	36.5	26.6	23.3
57.5°	11363.5	7889.0	382.0	192.7	112.9	79.7	53.1	36.5	26.6	16.6	13.3
60°	12536.0	8486.9	335.5	152.8	93.0	59.8	39.9	26.6	19.9	10.0	10.0
62.5°	13745.1	9187.8	275.7	119.6	73.1	46.5	29.9	19.9	13.3	3.3	3.3
65°	15425.9	9735.8	212.6	93.0	56.5	33.2	23.3	16.6	6.6	0.0	0.0
67.5°	15900.9	9466.8	156.1	73.1	39.9	23.3	16.6	10.0	3.3	0.0	0.0
69°	15425.9	8526.8	136.2	63.1	33.2	19.9	13.3	6.6	3.3	0.0	0.0
70°	14558.9	7796.0	119.6	53.1	29.9	19.9	10.0	6.6	3.3	0.0	0.0
72.5°	12177.3	5979.0	93.0	39.9	23.3	16.6	10.0	6.6	0.0	0.0	0.0
75°	8932.0	3693.7	69.8	29.9	19.9	13.3	10.0	6.6	0.0	0.0	0.0
77.5°	4786.5	1348.6	49.8	19.9	13.3	10.0	10.0	6.6	0.0	0.0	0.0
80°	1312.1	398.6	36.5	13.3	10.0	6.6	6.6	3.3	0.0	0.0	0.0
82.5°	358.7	103.0	23.3	13.3	10.0	6.6	3.3	0.0	0.0	0.0	0.0
85°	192.7	39.9	13.3	10.0	6.6	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	99.7	13.3	10.0	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)