

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: P484149

Luminaire Tested: **IFLD-L-SA7B-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484149
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

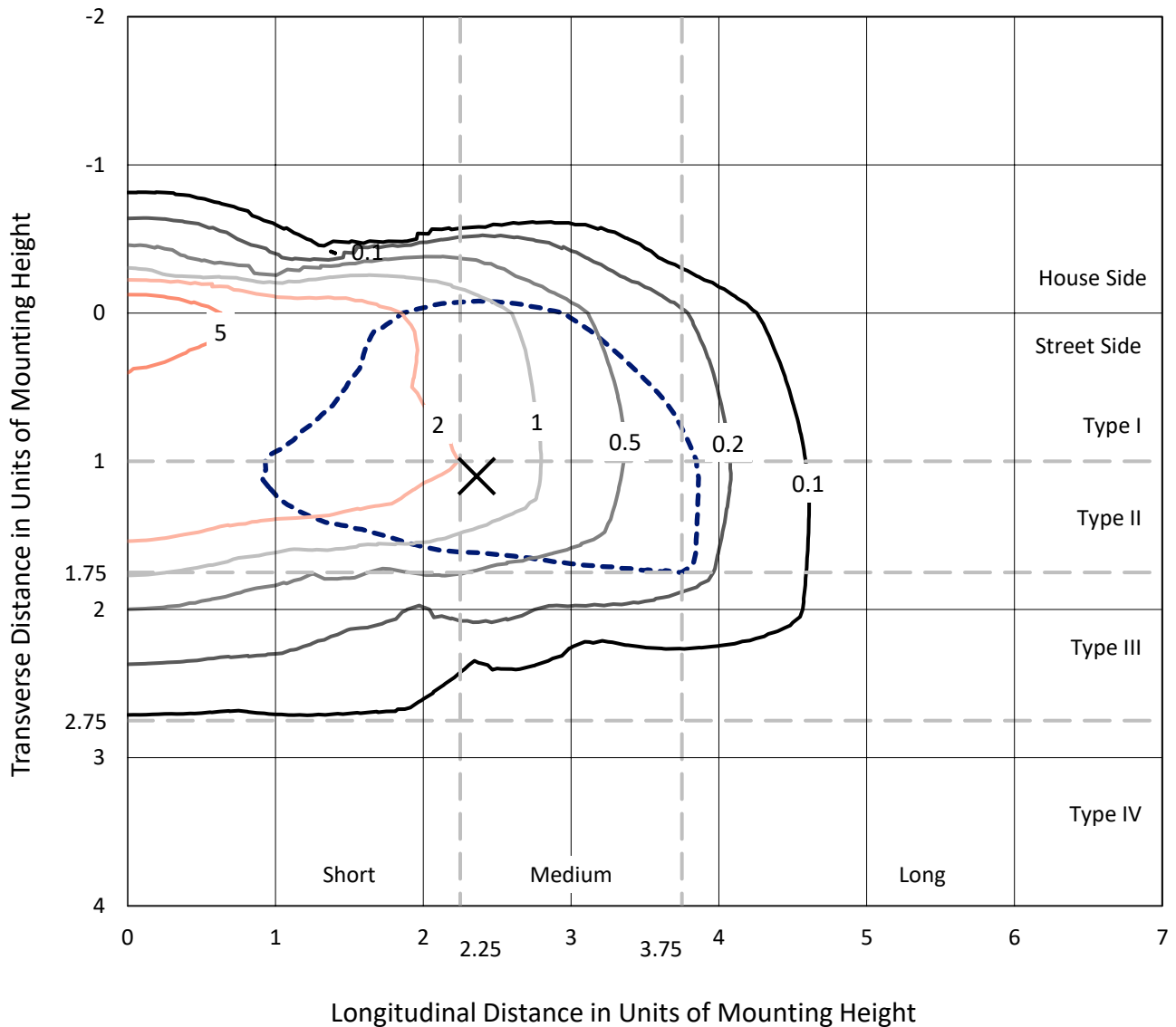
Lumens per Lamp: N/A
Luminaire Lumens: 21546.2 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

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

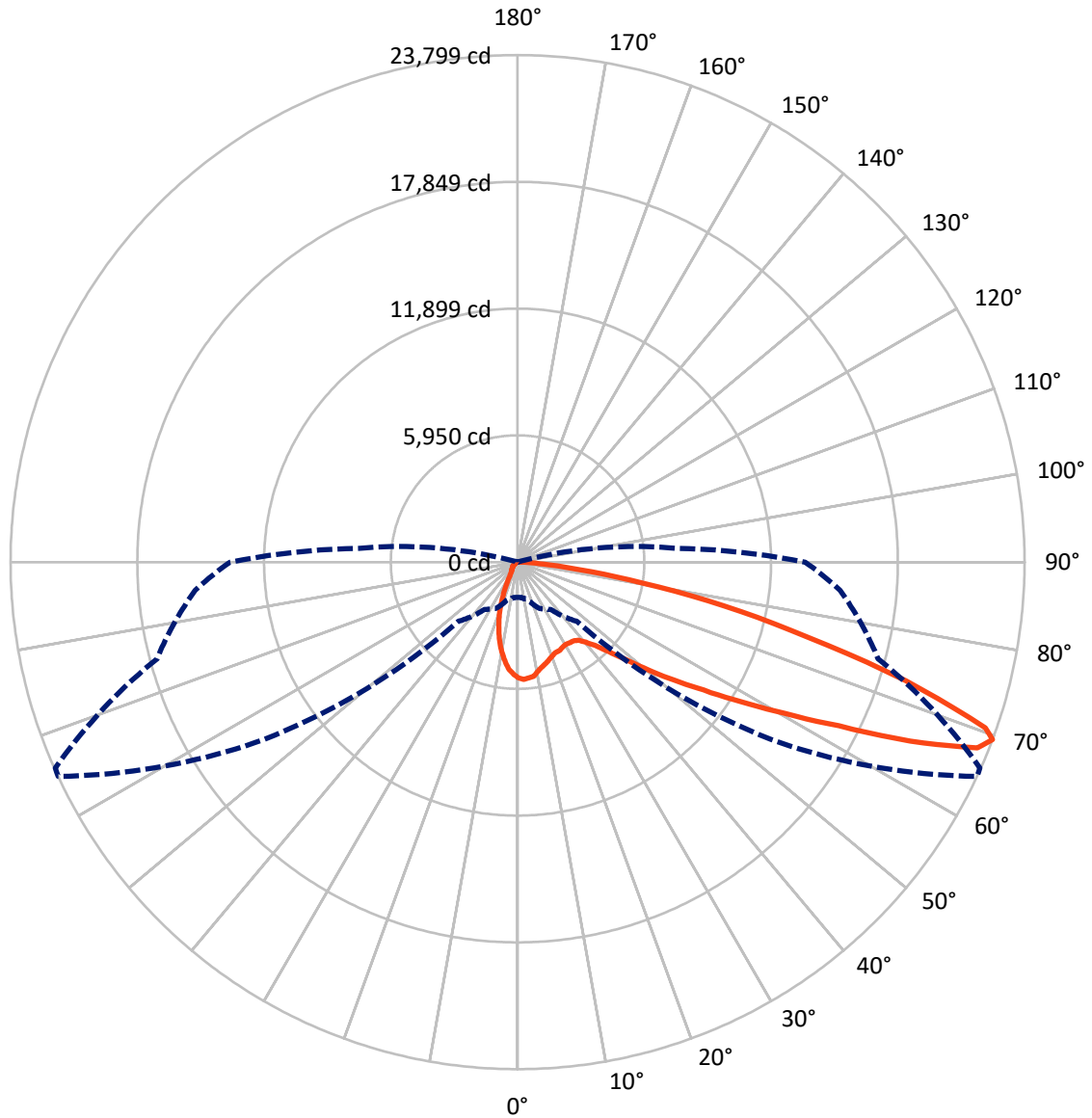
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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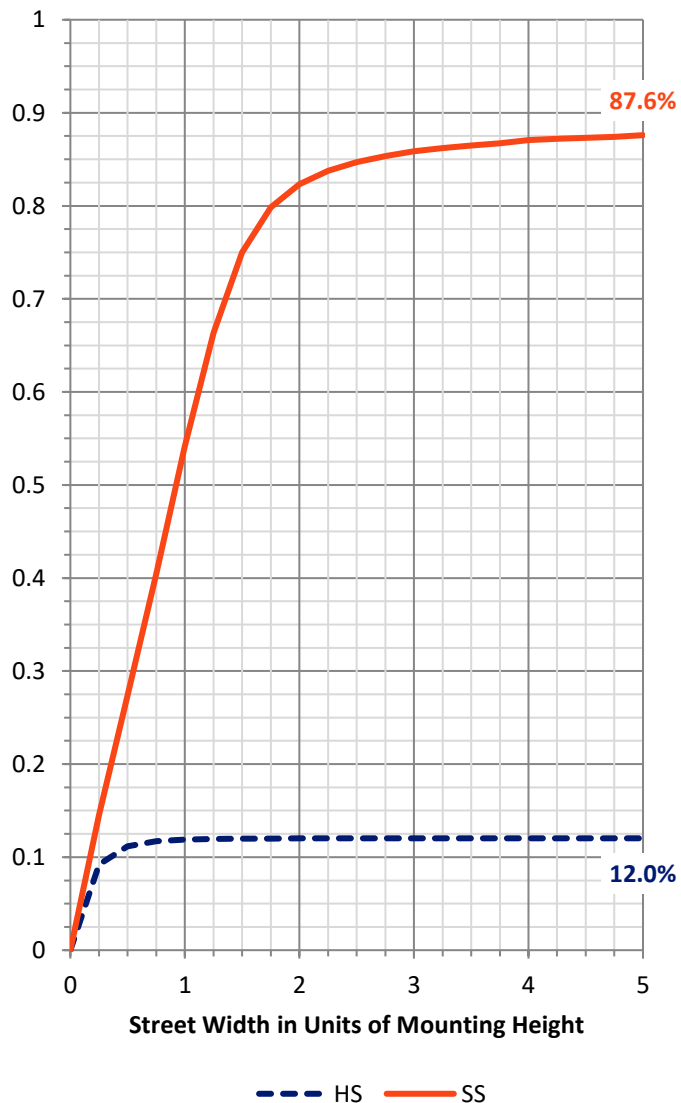
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2613.7	0.0	2613.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	18932.5	0.0	18932.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	21546.2	0.0	21546.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.5	2.1
10°-20°	972.6	4.5
20°-30°	1354.1	6.3
30°-40°	1918.9	8.9
40°-50°	3024.2	14.0
50°-60°	4907.2	22.8
60°-70°	5480.4	25.4
70°-80°	3086.1	14.3
80°-90°	358.1	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°	21546.2	100.0
0°-180°	21546.2	100.0

Coefficient of Utilization



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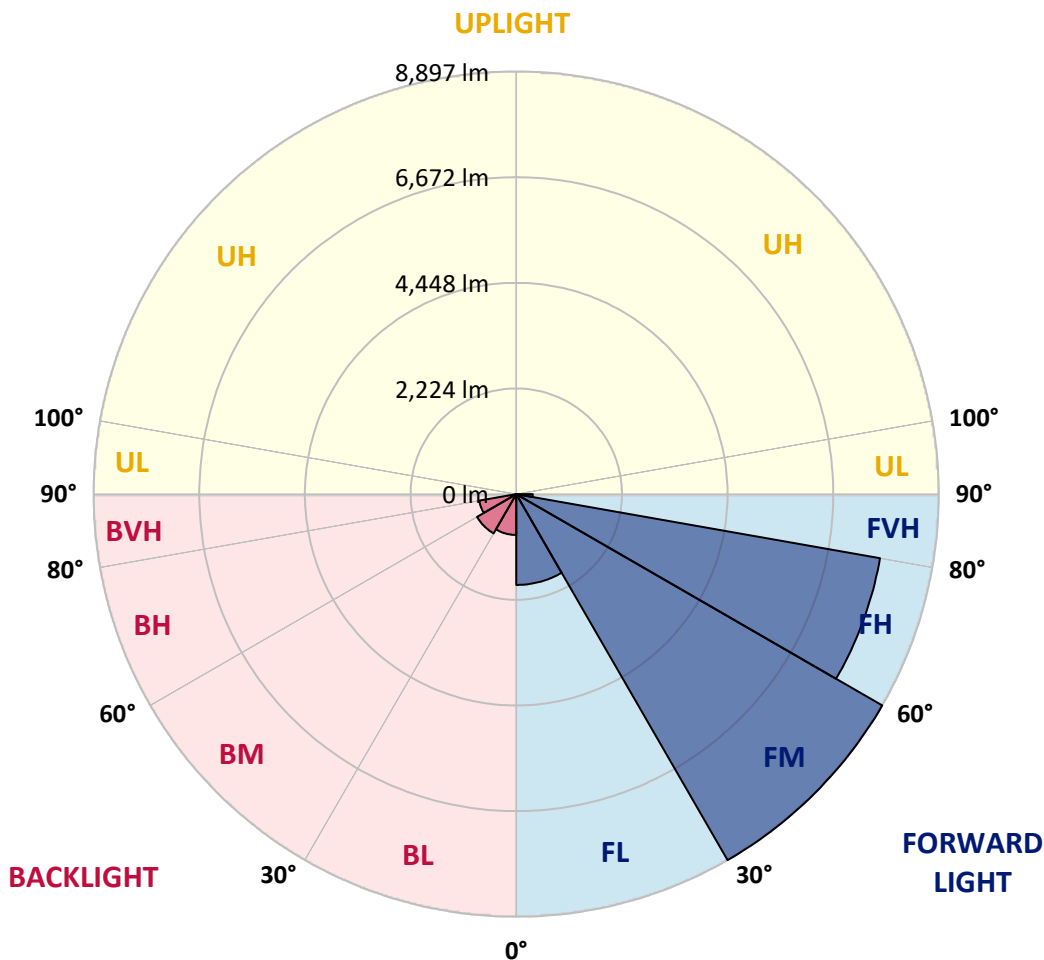
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1912.0	8.9			
FM (30°-60°)	8896.6	41.3			
FH (60°-80°)	7775.7	36.1			G4/12000
FVH (80°-90°)	348.2	1.6			G3/500
BL (0°-30°)	859.3	4.0	B2/1000		
BM (30°-60°)	953.7	4.4	B1/1000		
BH (60°-80°)	790.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.9	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3
2.5°	5231.8	5272.4	5284.1	5324.8	5345.1	5432.3	5481.7	5510.8	5496.2	5528.2	5531.1
5°	4859.7	4836.5	4897.5	4941.1	5034.1	5185.2	5339.3	5458.5	5513.7	5566.0	5557.3
7.5°	4461.5	4449.9	4510.9	4609.8	4694.0	4877.2	5124.2	5417.8	5406.1	5534.0	5571.8
10°	4188.3	4199.9	4220.3	4319.1	4444.1	4630.1	4938.2	5211.4	5272.4	5542.8	5618.3
12.5°	3938.3	3958.7	3996.5	4098.2	4243.5	4435.4	4734.7	5054.5	5147.5	5493.3	5644.5
15°	3857.0	3810.5	3886.0	3961.6	4112.7	4284.2	4537.1	4935.3	4976.0	5435.2	5688.1
17.5°	3790.1	3761.0	3795.9	3857.0	4016.8	4156.3	4394.7	4807.4	4883.0	5412.0	5682.3
20°	3810.5	3784.3	3798.8	3845.3	3918.0	4048.8	4269.7	4685.3	4766.7	5304.4	5673.5
22.5°	3868.6	3888.9	3862.8	3874.4	3897.7	3964.5	4202.8	4598.1	4667.9	5284.1	5723.0
25°	4130.2	4095.3	4060.4	4045.9	3909.3	3938.3	4182.5	4592.3	4641.7	5211.4	5682.3
27.5°	4403.4	4374.3	4359.8	4275.5	4089.5	4002.3	4185.4	4510.9	4577.8	5182.3	5632.9
30°	4734.7	4772.5	4714.4	4612.7	4354.0	4138.9	4217.4	4470.2	4563.3	5071.9	5600.9
32.5°	5083.5	5103.9	5132.9	5057.4	4723.1	4345.3	4313.3	4508.0	4513.8	5071.9	5528.2
35°	5478.8	5449.7	5525.3	5531.1	5237.6	4711.5	4496.4	4534.2	4595.2	5048.6	5502.1
37.5°	5818.9	5868.3	5955.5	6095.0	5792.7	5228.8	4781.2	4656.3	4682.4	5156.2	5522.4
40°	6190.9	6240.3	6438.0	6577.5	6406.0	5810.2	5214.3	4941.1	4961.4	5316.0	5627.0
42.5°	6600.7	6696.6	6932.1	7176.2	7129.7	6548.4	5772.4	5359.6	5350.9	5714.2	5842.1
45°	7155.9	7283.8	7539.5	7821.5	7862.2	7394.2	6516.4	5984.5	6013.6	6234.5	6286.8
47.5°	7929.0	7923.2	8173.2	8487.1	8722.5	8272.0	7405.8	6824.5	6821.6	7057.1	6946.6
50°	8676.0	8678.9	8745.7	9109.1	9719.4	9489.8	8507.4	7940.6	7908.7	8024.9	7847.6
52.5°	9021.9	8981.2	8931.8	9370.7	10486.8	11024.5	9902.5	9205.0	9178.8	9109.1	9062.6
55°	8658.6	8673.1	8670.2	9126.5	10890.8	12643.4	11693.0	10597.2	10553.6	10335.6	10399.6
57.5°	7493.0	7446.5	7548.3	8260.4	10428.6	13747.9	14253.6	12352.8	12239.4	11515.7	11370.3
60°	5577.6	5592.2	5676.5	6516.4	9280.5	13980.4	16703.8	14413.5	13925.2	12346.9	12146.4
62.5°	3894.8	3865.7	3897.7	4368.5	6635.6	13050.3	18360.5	16918.9	16448.1	13291.6	13175.3
65°	2787.4	2749.6	2877.5	3165.2	3984.9	9978.1	18596.0	20255.6	19834.2	14800.1	14521.0
67.5°	2005.5	1999.7	2147.9	2671.1	2831.0	5746.2	16852.1	23278.4	23022.6	16590.5	15340.7
69°	1659.6	1662.5	1805.0	2392.1	2703.1	3923.8	14500.7	23798.7	23752.2	17514.7	15186.6
70°	1447.5	1459.1	1624.8	2226.4	2650.8	3226.2	12501.0	23287.1	23240.6	17695.0	14678.0
72.5°	892.3	901.0	1119.0	1784.6	2520.0	2633.3	7475.6	19052.3	19212.2	16869.5	12646.3
75°	427.3	430.2	587.1	1290.5	2429.9	2496.7	4005.2	14058.9	14396.0	13620.0	9882.2
77.5°	226.7	226.7	281.9	685.9	1967.7	2348.5	2377.5	9917.1	10196.1	8612.0	5618.3
80°	113.4	116.3	171.5	357.5	1220.7	2302.0	1857.3	5914.8	6065.9	3514.0	1749.7
82.5°	43.6	46.5	81.4	215.1	633.6	1944.5	1630.6	2909.4	2871.7	822.5	427.3
85°	5.8	5.8	29.1	127.9	270.3	857.4	1345.7	1214.9	1174.2	180.2	206.4
87.5°	0.0	0.0	5.8	37.8	81.4	250.0	520.3	334.3	372.0	49.4	101.7
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°	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3	5432.3
2.5°	5516.6	5455.6	5362.5	5272.4	5176.5	5060.3	4932.4	4885.9	4804.5	4798.7	4845.2
5°	5510.8	5412.0	5249.2	5057.4	4784.1	4577.8	4354.0	4191.2	4066.2	3984.9	4005.2
7.5°	5539.8	5420.7	5138.7	4726.0	4374.3	3964.5	3618.6	3380.3	3162.3	3054.8	3043.1
10°	5493.3	5333.5	4920.8	4342.4	3825.0	3252.4	2746.7	2427.0	2101.4	1982.3	1988.1
12.5°	5519.5	5295.7	4685.3	3947.1	3235.0	2490.9	1886.3	1450.4	1145.2	1046.4	1034.7
15°	5536.9	5214.3	4458.6	3473.3	2581.0	1697.4	1092.9	822.5	726.6	709.2	706.3
17.5°	5470.1	5115.5	4138.9	3005.4	1912.5	1031.8	726.6	671.4	654.0	642.3	636.5
20°	5467.2	5057.4	3862.8	2525.8	1276.0	703.4	627.8	607.5	581.3	572.6	572.6
22.5°	5417.8	4935.3	3531.4	1999.7	813.8	604.6	563.9	531.9	502.8	491.2	488.3
25°	5403.2	4792.9	3220.4	1502.7	619.1	540.6	499.9	453.4	418.5	401.1	392.4
27.5°	5362.5	4670.8	2906.5	1058.0	540.6	482.5	430.2	380.8	340.1	313.9	311.0
30°	5217.2	4542.9	2557.7	732.4	491.2	427.3	369.1	311.0	270.3	252.9	247.1
32.5°	5156.2	4423.7	2177.0	563.9	447.6	377.8	311.0	258.7	226.7	209.3	206.4
35°	5083.5	4249.3	1807.9	491.2	406.9	328.4	261.6	218.0	191.8	177.3	177.3
37.5°	5092.2	4109.8	1462.0	444.7	363.3	281.9	223.8	186.0	162.8	148.2	148.2
40°	5066.1	3999.4	1136.5	404.0	322.6	241.2	188.9	157.0	136.6	122.1	119.2
42.5°	5185.2	3970.3	857.4	369.1	281.9	206.4	162.8	133.7	113.4	95.9	95.9
45°	5385.8	4016.8	668.5	337.2	241.2	177.3	139.5	110.4	90.1	78.5	75.6
47.5°	5920.6	4199.9	523.2	311.0	206.4	154.0	116.3	90.1	72.7	61.0	58.1
50°	6696.6	4609.8	444.7	273.2	174.4	130.8	95.9	69.8	58.1	46.5	43.6
52.5°	7801.1	5298.6	404.0	241.2	145.3	107.5	75.6	55.2	43.6	34.9	32.0
55°	9004.4	6158.9	366.2	203.5	122.1	87.2	61.0	43.6	32.0	23.3	20.3
57.5°	9943.2	6903.0	334.3	168.6	98.8	69.8	46.5	32.0	23.3	14.5	11.6
60°	10969.2	7426.2	293.6	133.7	81.4	52.3	34.9	23.3	17.4	8.7	8.7
62.5°	12027.2	8039.5	241.2	104.6	63.9	40.7	26.2	17.4	11.6	2.9	2.9
65°	13497.9	8519.0	186.0	81.4	49.4	29.1	20.3	14.5	5.8	0.0	0.0
67.5°	13913.6	8283.6	136.6	63.9	34.9	20.3	14.5	8.7	2.9	0.0	0.0
69°	13497.9	7461.1	119.2	55.2	29.1	17.4	11.6	5.8	2.9	0.0	0.0
70°	12739.3	6821.6	104.6	46.5	26.2	17.4	8.7	5.8	2.9	0.0	0.0
72.5°	10655.3	5231.8	81.4	34.9	20.3	14.5	8.7	5.8	0.0	0.0	0.0
75°	7815.7	3232.1	61.0	26.2	17.4	11.6	8.7	5.8	0.0	0.0	0.0
77.5°	4188.3	1180.1	43.6	17.4	11.6	8.7	8.7	5.8	0.0	0.0	0.0
80°	1148.1	348.8	32.0	11.6	8.7	5.8	5.8	2.9	0.0	0.0	0.0
82.5°	313.9	90.1	20.3	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0
85°	168.6	34.9	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	87.2	11.6	8.7	5.8	5.8	2.9	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)