

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: P484539

Luminaire Tested: **IFLD-L-SA7B-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484539
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-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

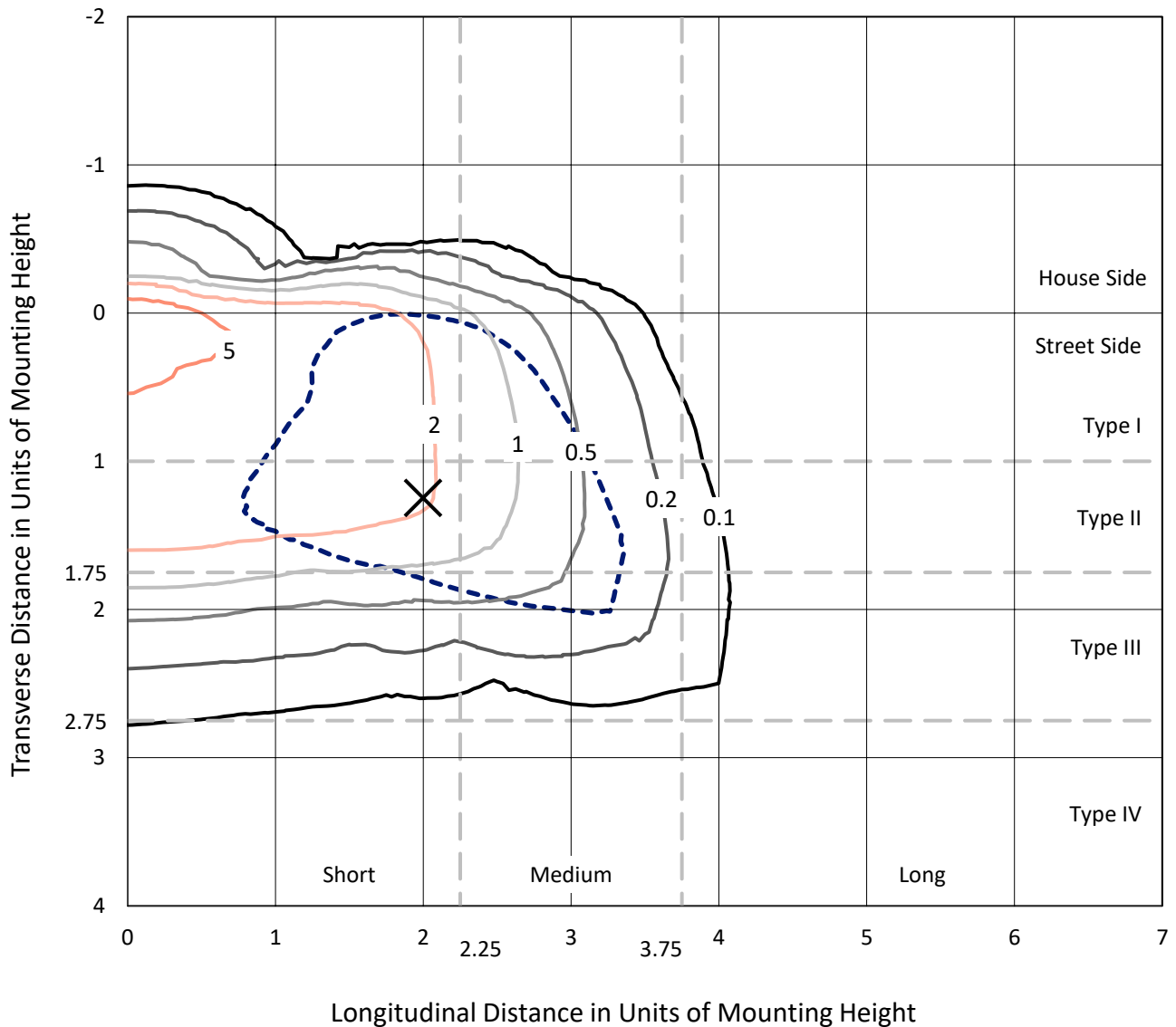
Lumens per Lamp: N/A
Luminaire Lumens: 21892.9 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

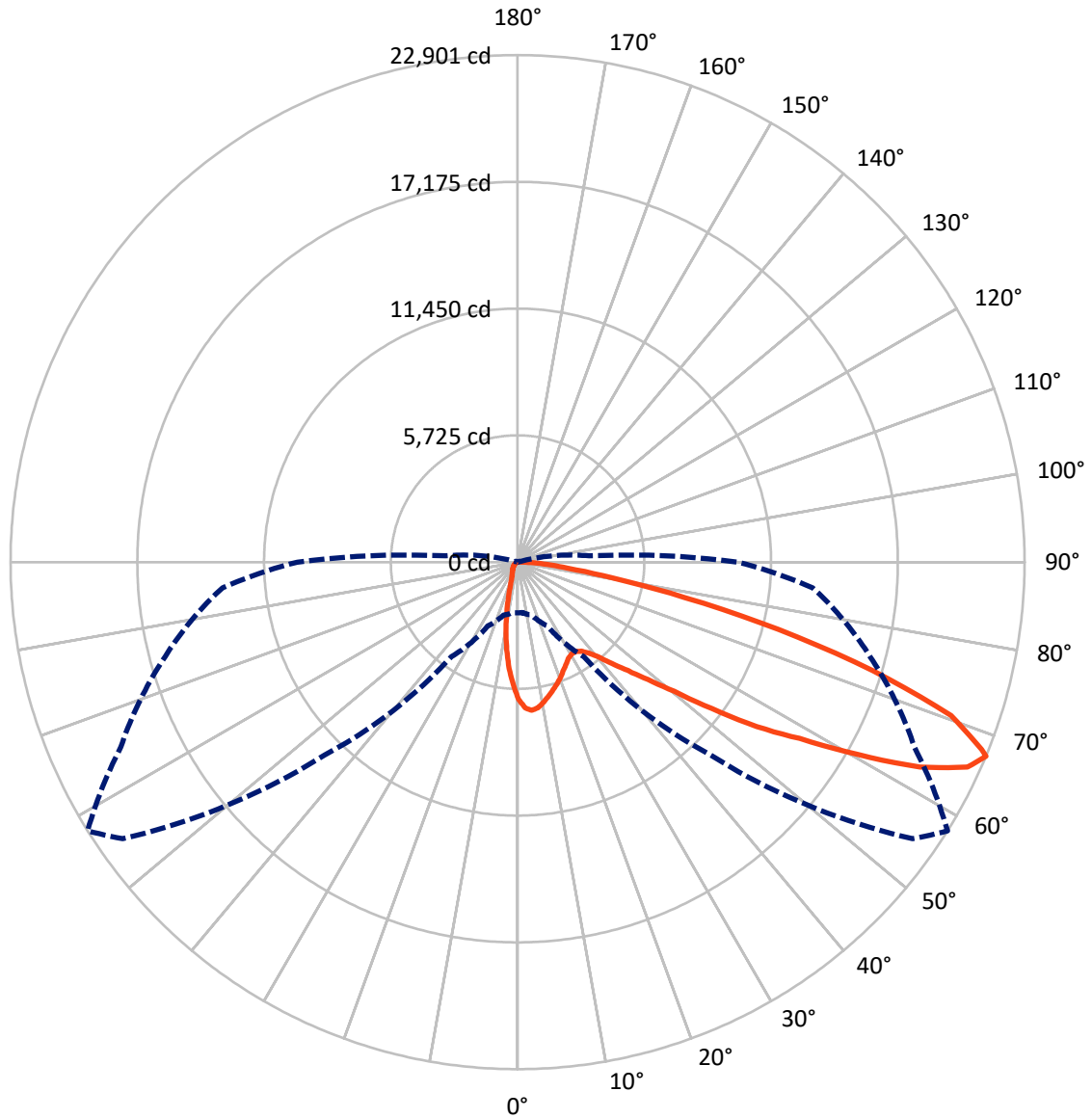
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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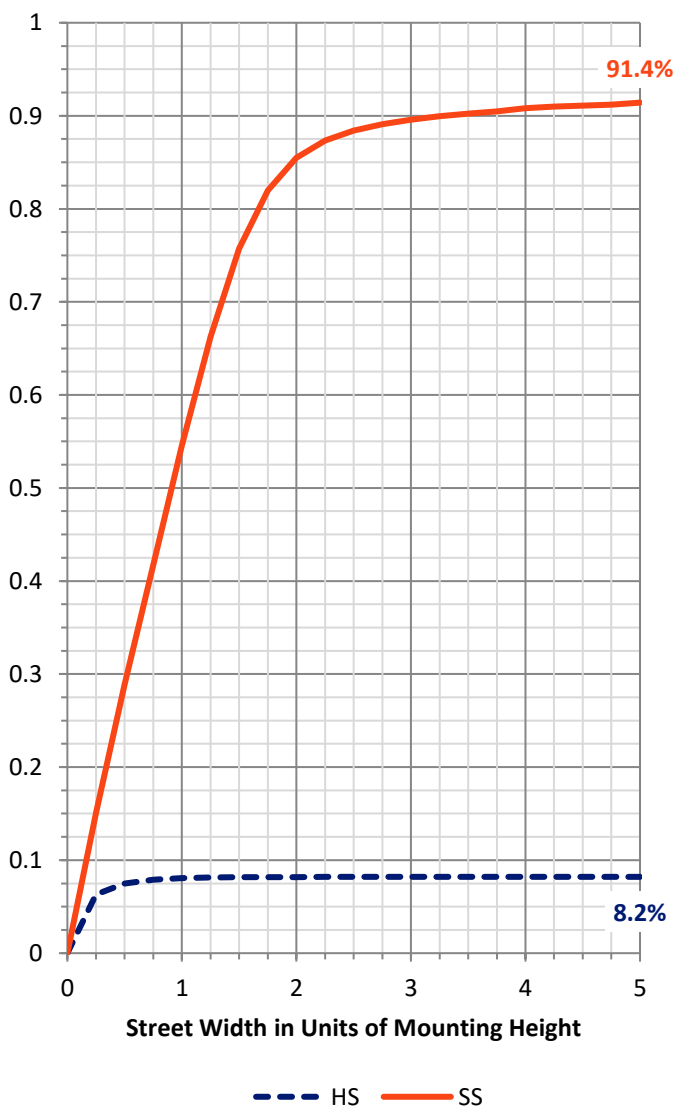
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1809.6	0.0	1809.6
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	20083.3	0.0	20083.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	21892.9	0.0	21892.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.1	2.2
10°-20°	1020.8	4.7
20°-30°	1354.4	6.2
30°-40°	1876.7	8.6
40°-50°	3062.3	14.0
50°-60°	5382.5	24.6
60°-70°	5961.6	27.2
70°-80°	2470.5	11.3
80°-90°	271.9	1.2
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°	21892.9	100.0
0°-180°	21892.9	100.0



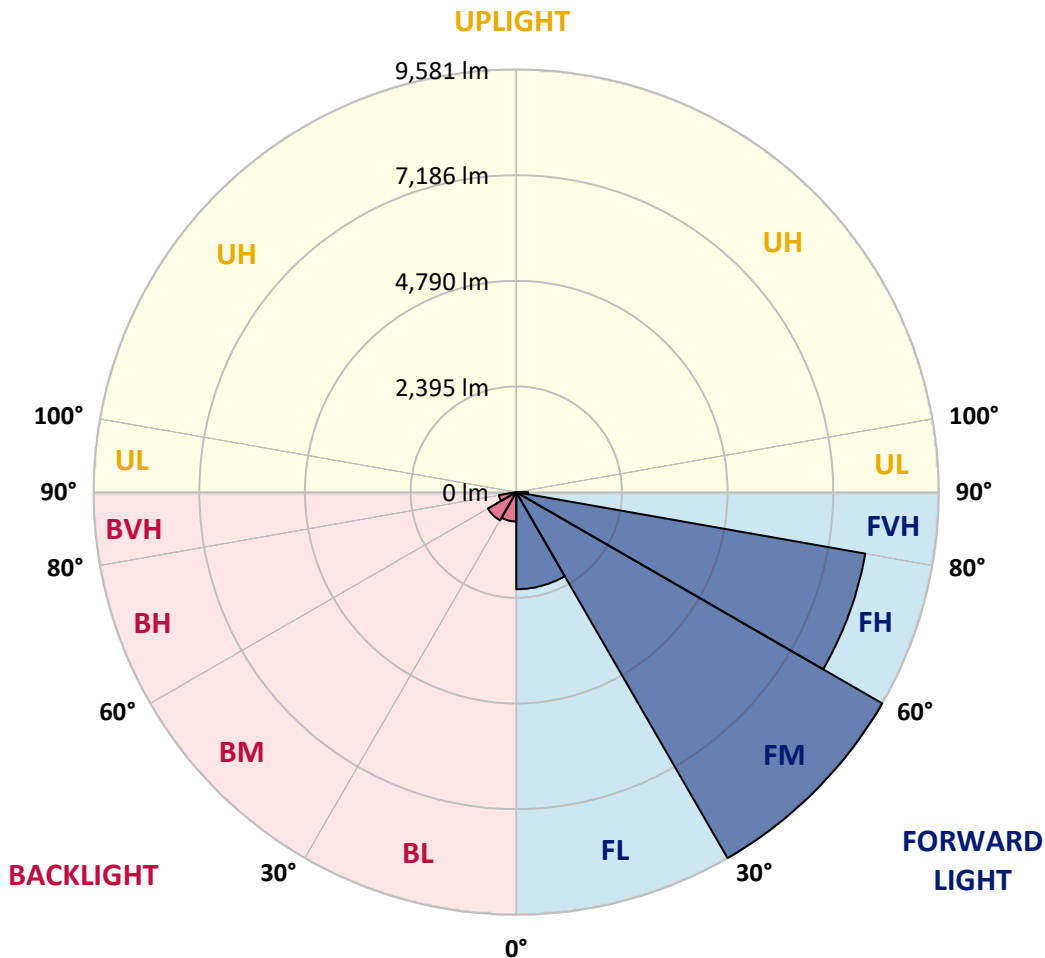
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2200.8	10.1			
FM (30°-60°)	9580.8	43.8			
FH (60°-80°)	8034.2	36.7			G4/12000
FVH (80°-90°)	267.5	1.2			G3/500
BL (0°-30°)	666.5	3.0	B2/1000		
BM (30°-60°)	740.8	3.4	B1/1000		
BH (60°-80°)	397.9	1.8	B1/500		G1/500
BVH (80°-90°)	4.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6
2.5°	6749.0	6772.2	6792.6	6754.8	6786.8	6740.3	6621.1	6594.9	6574.6	6397.3	6295.6
5°	6746.1	6719.9	6740.3	6757.7	6714.1	6749.0	6719.9	6722.8	6644.4	6484.5	6199.7
7.5°	6295.6	6283.9	6295.6	6379.9	6475.8	6551.3	6594.9	6638.5	6586.2	6347.9	6071.8
10°	5688.1	5746.2	5778.2	5929.3	6077.6	6217.1	6353.7	6435.1	6420.5	6324.6	5932.3
12.5°	5263.7	5246.3	5362.6	5461.4	5609.6	5891.6	6129.9	6205.5	6292.7	6159.0	5749.1
15°	4871.4	4824.9	4894.6	5066.1	5319.0	5542.8	5877.0	5990.4	6100.8	6135.7	5650.3
17.5°	4496.4	4519.7	4592.3	4746.4	4984.7	5298.6	5612.5	5775.3	6039.8	5993.3	5502.1
20°	4316.2	4365.6	4391.8	4470.3	4635.9	4949.8	5417.8	5548.6	5830.5	5990.4	5356.8
22.5°	4324.9	4324.9	4263.9	4310.4	4461.5	4705.7	5153.3	5298.6	5746.2	5839.2	5226.0
25°	4417.9	4359.8	4362.7	4307.5	4371.4	4505.1	4915.0	5092.3	5574.7	5853.8	5156.2
27.5°	4487.7	4476.1	4458.6	4444.1	4362.7	4383.1	4758.0	4903.3	5507.9	5836.3	5048.7
30°	4740.6	4688.3	4670.8	4638.8	4531.3	4432.5	4633.0	4816.1	5455.6	5877.0	4987.6
32.5°	4952.7	4961.5	4976.0	4883.0	4790.0	4545.8	4667.9	4813.2	5417.8	5970.0	5048.7
35°	5220.1	5257.9	5263.7	5234.7	5135.9	4894.6	4813.2	4938.2	5481.7	6135.7	5054.5
37.5°	5627.1	5586.4	5696.8	5708.4	5638.7	5319.0	5150.4	5199.8	5670.7	6400.2	5275.4
40°	5891.6	5941.0	6147.3	6275.2	6156.1	5865.4	5638.7	5630.0	5943.9	6815.8	5548.6
42.5°	6185.1	6295.6	6522.3	6798.4	6783.9	6513.6	6283.9	6246.2	6429.3	7417.5	5981.7
45°	6586.2	6685.0	7001.9	7417.5	7644.2	7414.6	7068.7	6993.1	7019.3	8237.1	6719.9
47.5°	7251.8	7225.7	7682.0	8091.8	8463.8	8286.5	8138.3	7917.4	7897.1	9202.1	7740.1
50°	8004.6	7998.8	8405.7	8870.8	9300.9	9646.8	9399.8	9158.5	9164.3	10513.0	8940.5
52.5°	8719.6	8833.0	9271.9	9734.0	10472.3	10844.3	11082.6	10986.7	10524.6	11684.3	10225.2
55°	9097.5	9196.3	9632.3	10428.7	11594.2	12550.4	13195.7	13114.3	12222.0	13003.9	11492.5
57.5°	8740.0	8806.8	9396.8	10440.3	12379.0	14512.4	15131.5	15029.7	13977.6	14012.4	13024.2
60°	7243.1	7347.7	8225.5	9449.2	12073.8	16023.8	17796.8	17642.7	15576.2	15288.4	14009.5
62.5°	5016.7	5086.4	5807.3	7330.3	10626.3	16549.8	20313.8	20398.1	17261.9	16282.4	14303.1
65°	3249.5	3243.7	3656.4	4688.3	7530.8	14957.1	21802.0	22325.1	18889.6	16433.6	14213.0
67°	2296.2	2287.4	2482.2	3179.8	5214.3	12323.7	21775.8	22900.6	19773.2	16477.2	13378.8
67.5°	2118.9	2110.1	2296.2	2924.0	4705.7	11460.5	21450.3	22604.2	20084.2	16416.1	13012.6
70°	1645.1	1621.8	1691.6	2014.2	2740.9	7411.7	18357.7	20764.3	19438.9	14893.1	10390.9
72.5°	1188.8	1214.9	1325.4	1653.8	2150.8	3987.8	13992.1	16791.1	16235.9	11225.1	6603.7
75°	828.4	851.6	1028.9	1348.6	1973.5	2418.2	9460.8	12178.4	11309.4	6196.7	2813.5
77.5°	433.1	462.1	656.9	1078.3	1793.3	1871.8	5653.2	7722.7	5993.3	2206.1	776.0
80°	200.6	215.1	328.4	764.4	1499.8	1645.1	3296.0	4295.9	2397.9	494.1	267.4
82.5°	87.2	95.9	151.1	438.9	1063.8	1438.7	2040.4	2252.6	869.1	159.9	165.7
85°	17.4	20.3	58.1	232.5	514.5	872.0	1432.9	1337.0	436.0	78.5	130.8
87.5°	0.0	0.0	14.5	66.9	139.5	258.7	607.5	607.5	133.7	40.7	49.4
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°	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6	6202.6
2.5°	6205.5	6100.8	5871.2	5659.0	5507.9	5336.4	5109.7	5008.0	4970.2	4917.9	4839.4
5°	6042.7	5914.8	5522.4	5127.1	4694.1	4365.6	4016.8	3813.4	3659.3	3563.4	3531.4
7.5°	5813.1	5551.5	5022.5	4388.9	3827.9	3339.6	2810.6	2453.1	2223.5	2130.5	2043.3
10°	5630.0	5289.9	4484.8	3697.1	2950.1	2235.1	1639.3	1325.4	1087.0	996.9	985.3
12.5°	5391.6	4984.7	3982.0	2990.8	2052.0	1331.2	906.8	787.7	720.8	709.2	700.5
15°	5194.0	4708.6	3505.3	2316.5	1328.3	831.3	706.3	677.2	659.8	654.0	656.9
17.5°	5060.3	4412.1	3017.0	1685.8	874.9	680.1	651.1	633.6	624.9	622.0	613.3
20°	4795.8	4162.2	2534.5	1180.1	683.0	627.8	604.6	590.0	581.3	578.4	575.5
22.5°	4644.7	3845.4	2052.0	822.6	607.5	569.7	552.2	540.6	526.1	517.4	514.5
25°	4493.5	3612.8	1621.8	639.4	552.2	526.1	499.9	485.4	462.1	450.5	447.6
27.5°	4316.2	3383.2	1249.8	555.1	497.0	470.9	444.7	421.4	392.4	380.8	374.9
30°	4214.5	3159.4	941.7	497.0	456.3	421.4	389.5	360.4	328.4	308.1	302.3
32.5°	4162.2	2956.0	706.3	453.4	412.7	374.9	334.3	299.4	270.3	252.9	250.0
35°	4098.2	2758.3	555.1	412.7	372.0	331.3	290.7	255.8	226.7	212.2	206.4
37.5°	4165.1	2642.0	462.1	380.8	340.1	293.6	250.0	215.1	191.8	177.3	174.4
40°	4348.2	2546.1	401.1	351.7	308.1	258.7	218.0	183.1	162.8	151.1	145.3
42.5°	4630.1	2546.1	363.3	322.6	279.0	226.7	186.0	159.9	139.5	127.9	125.0
45°	5141.7	2624.6	331.3	293.6	244.1	194.7	159.9	133.7	113.4	101.7	98.8
47.5°	5859.6	2804.8	305.2	267.4	218.0	171.5	139.5	113.4	93.0	81.4	78.5
50°	6824.6	3214.6	279.0	235.4	194.7	148.2	116.3	90.1	72.7	61.0	58.1
52.5°	8027.9	3795.9	252.9	218.0	165.7	125.0	93.0	72.7	55.2	46.5	43.6
55°	9300.9	4508.0	220.9	194.7	142.4	104.6	75.6	55.2	40.7	34.9	32.0
57.5°	10582.7	5057.4	194.7	168.6	116.3	84.3	61.0	43.6	29.1	23.3	20.3
60°	11262.8	5109.7	168.6	139.5	93.0	66.9	46.5	32.0	20.3	14.5	11.6
62.5°	11367.5	4644.7	145.3	113.4	75.6	52.3	32.0	23.3	11.6	5.8	5.8
65°	10829.8	3871.5	125.0	90.1	58.1	37.8	23.3	14.5	5.8	2.9	0.0
67°	9957.8	3243.7	107.5	75.6	46.5	29.1	17.4	8.7	2.9	0.0	0.0
67.5°	9620.7	3069.3	101.7	69.8	43.6	26.2	14.5	8.7	2.9	0.0	0.0
70°	7466.9	2191.5	75.6	49.4	32.0	20.3	11.6	5.8	0.0	0.0	0.0
72.5°	4574.9	1281.8	58.1	34.9	23.3	14.5	8.7	2.9	0.0	0.0	0.0
75°	1918.3	441.8	49.4	26.2	17.4	8.7	5.8	2.9	0.0	0.0	0.0
77.5°	499.9	165.7	34.9	17.4	11.6	8.7	5.8	2.9	0.0	0.0	0.0
80°	203.5	75.6	23.3	11.6	11.6	8.7	5.8	2.9	0.0	0.0	0.0
82.5°	133.7	34.9	14.5	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0
85°	101.7	20.3	8.7	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	43.6	11.6	8.7	5.8	5.8	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)