

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: P480799

Luminaire Tested: **IFLD-L-SA8A-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480799
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

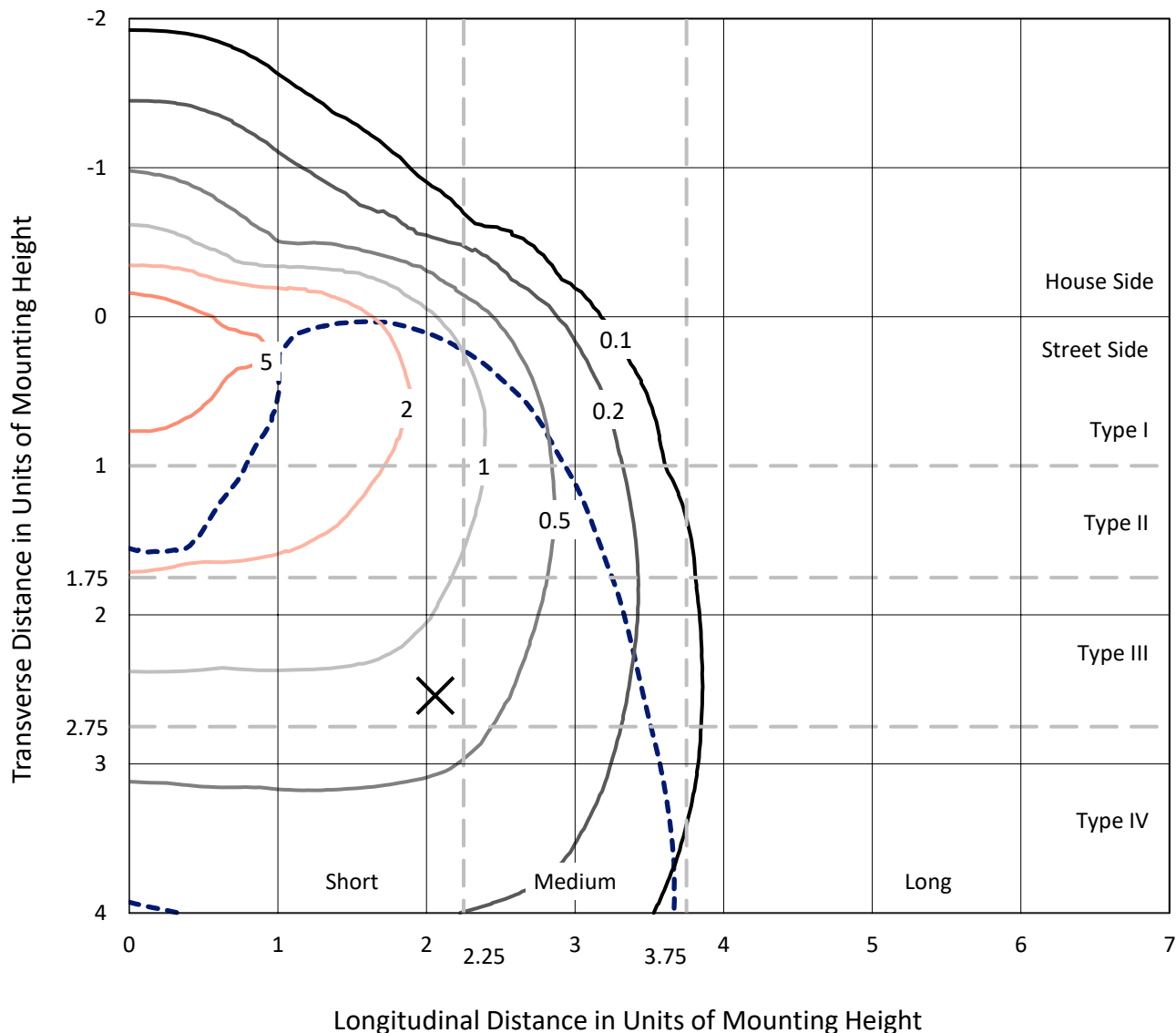
Lumens per Lamp: N/A
Luminaire Lumens: 27711.1 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
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

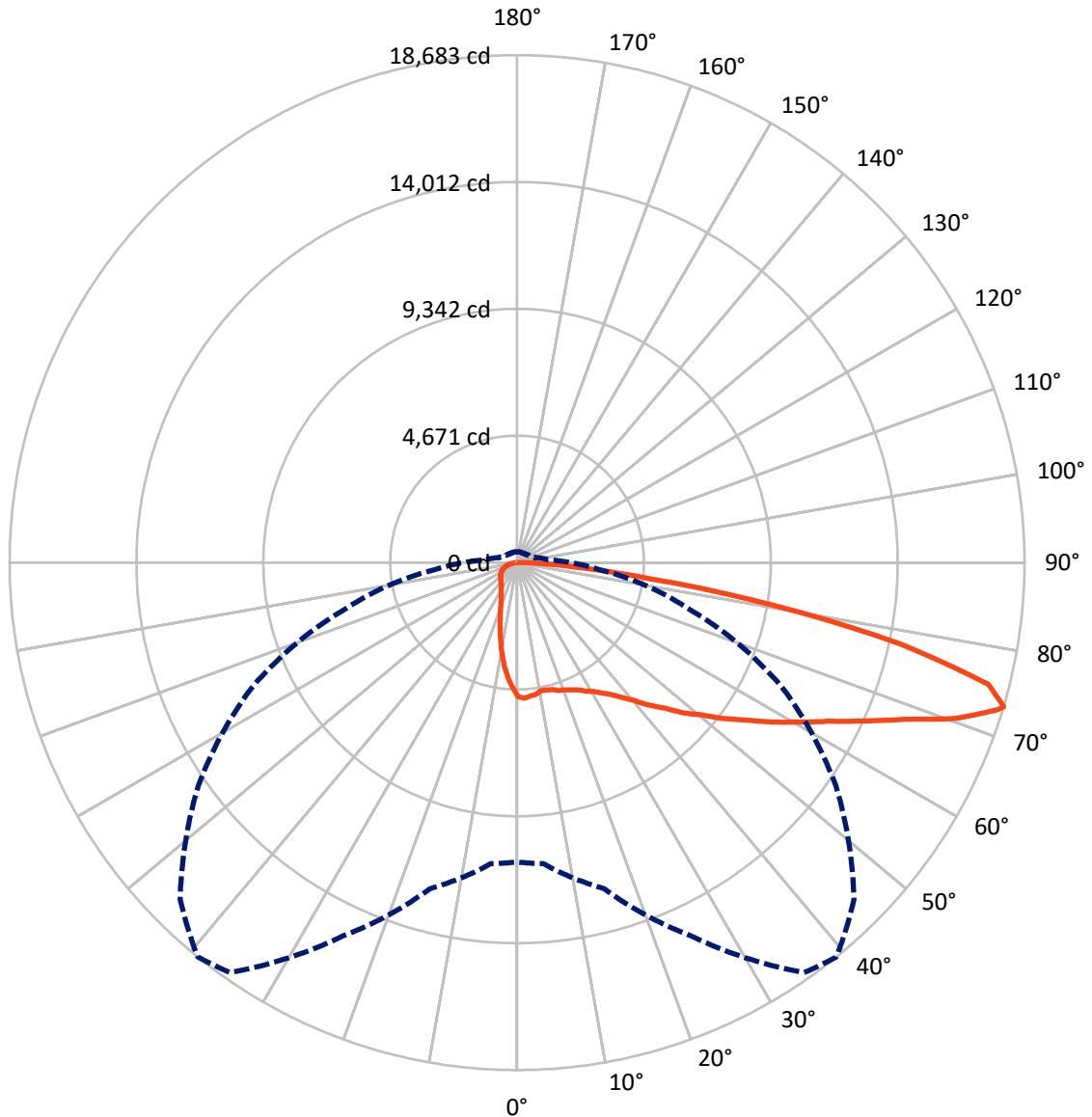
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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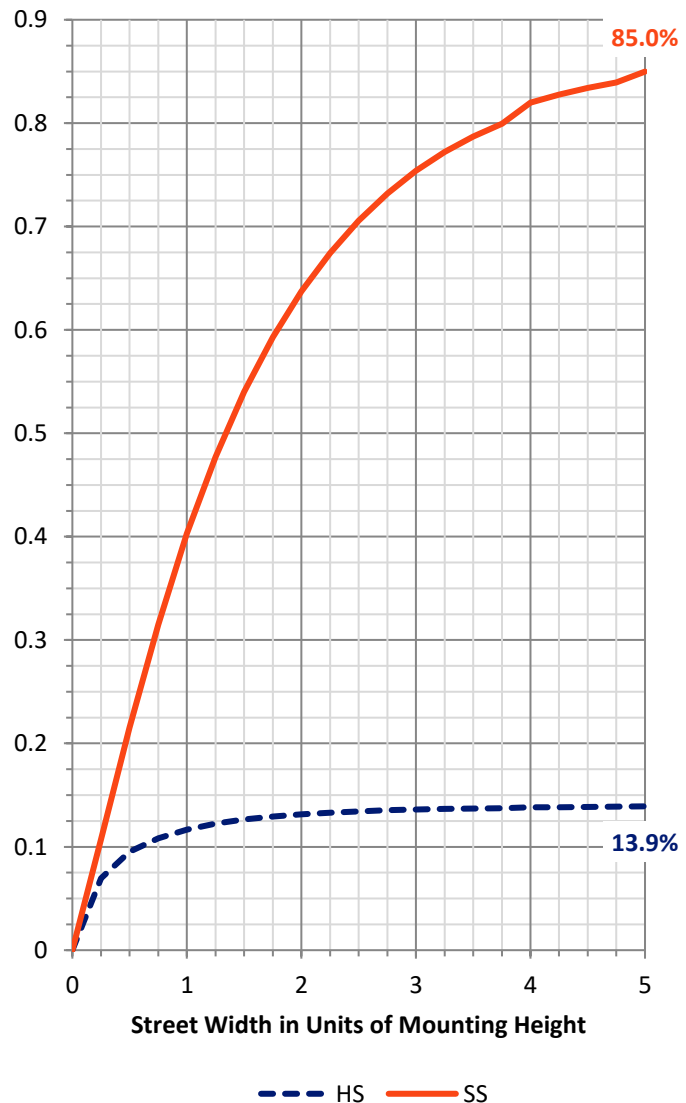
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3895.4	0.0	3895.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	23815.7	0.0	23815.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	27711.1	0.0	27711.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.2	1.5
10°-20°	1088.5	3.9
20°-30°	1663.4	6.0
30°-40°	2425.3	8.8
40°-50°	3664.9	13.2
50°-60°	5307.0	19.2
60°-70°	6742.8	24.3
70°-80°	5466.1	19.7
80°-90°	924.8	3.3
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°	27711.1	100.0
0°-180°	27711.1	100.0

Coefficient of Utilization



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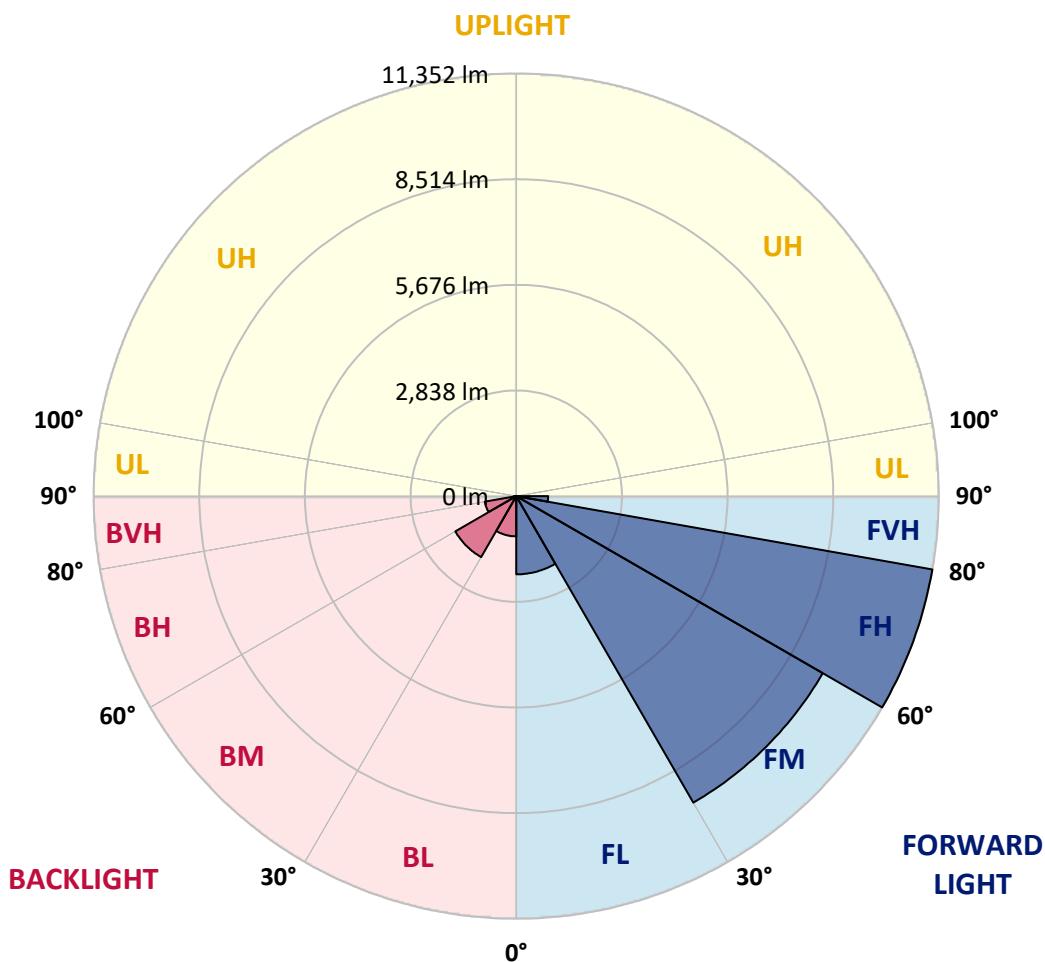
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2099.9	7.6			
FM (30°-60°)	9506.7	34.3			
FH (60°-80°)	11352.1	41.0			G4/12000
FVH (80°-90°)	857.0	3.1			G5
BL (0°-30°)	1080.3	3.9	B3/2500		
BM (30°-60°)	1890.5	6.8	B2/2500		
BH (60°-80°)	856.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	67.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7
2.5°	5050.6	4997.9	5007.2	4988.6	5007.2	5001.0	4991.7	4945.1	4991.7	4945.1	4932.7
5°	4982.4	4982.4	5013.4	4966.9	4973.1	4942.0	4973.1	4938.9	4907.9	4830.4	4808.7
7.5°	4960.7	4957.5	4960.7	4895.5	4926.5	4907.9	4876.9	4839.7	4777.7	4728.1	4656.8
10°	4811.8	4842.8	4808.7	4827.3	4852.1	4796.3	4793.2	4783.9	4756.0	4690.9	4647.5
12.5°	4731.2	4783.9	4802.5	4787.0	4808.7	4814.9	4796.3	4783.9	4749.8	4706.4	4582.4
15°	4765.3	4703.3	4756.0	4858.3	4836.6	4852.1	4855.2	4842.8	4827.3	4746.7	4666.1
17.5°	4774.6	4737.4	4849.0	4870.7	4898.6	4954.4	4917.2	4914.1	4855.2	4799.4	4681.6
20°	4796.3	4780.8	4870.7	4985.5	4988.6	4997.9	5016.5	4970.0	4938.9	4842.8	4663.0
22.5°	4876.9	4929.6	5013.4	5063.0	5090.9	5097.1	5097.1	5004.1	4970.0	4892.4	4749.8
25°	5118.8	5063.0	5180.8	5239.7	5199.4	5190.1	5168.4	5084.7	5047.5	4979.3	4790.1
27.5°	5295.5	5292.4	5360.6	5441.2	5332.7	5354.4	5276.9	5252.1	5168.4	5131.2	4861.4
30°	5537.3	5605.5	5602.4	5627.2	5484.6	5509.4	5410.2	5363.7	5317.2	5338.9	5072.3
32.5°	5847.4	5822.6	5862.9	5844.3	5701.6	5723.4	5605.5	5534.2	5549.7	5614.8	5360.6
35°	6045.8	6021.0	6036.5	6036.5	5993.1	5968.3	5918.7	5825.7	5900.1	6021.0	5683.0
37.5°	6259.7	6290.7	6380.6	6362.0	6306.2	6306.2	6300.0	6234.9	6331.0	6628.7	6197.7
40°	6448.8	6532.6	6588.4	6625.6	6690.7	6690.7	6743.4	6706.2	6879.8	7357.3	6827.1
42.5°	6647.3	6650.4	6954.2	6982.1	7127.8	7189.8	7230.1	7261.2	7586.7	8120.0	7499.9
45°	6901.5	6917.0	7183.6	7397.6	7623.9	7645.6	7797.5	7899.8	8299.8	8954.0	8231.6
47.5°	7236.3	7217.7	7503.0	7844.0	8126.2	8275.0	8457.9	8569.5	9062.5	9859.3	9031.5
50°	7676.6	7620.8	7785.1	8321.5	8653.2	8817.6	9143.1	9329.1	9905.8	10724.3	9580.3
52.5°	8213.0	8120.0	8250.2	8836.2	9208.2	9540.0	9850.0	10057.7	10659.2	11394.0	9986.4
55°	8780.4	8588.1	8625.3	9381.8	9918.2	10231.3	10656.1	10873.1	11487.0	11995.5	10392.6
57.5°	9341.5	9220.6	9146.2	9905.8	10764.6	11065.4	11456.0	11738.1	12259.0	12528.7	10736.7
60°	9812.8	9781.8	9660.9	10718.1	11660.6	11918.0	12327.2	12500.8	12894.6	13021.7	10742.9
62.5°	10200.3	10094.9	10287.1	11372.3	12572.1	12863.6	13313.1	13328.6	13607.7	13328.6	10426.7
65°	10504.2	10510.4	10817.3	12162.9	13626.3	14057.2	14420.0	14379.7	14199.9	13145.7	9679.5
67.5°	10780.1	10897.9	11347.5	13031.0	14981.2	15387.3	15790.4	15257.1	14361.1	12290.0	8219.2
70°	10997.1	11115.0	12063.7	14088.2	16577.9	17173.2	17263.1	15604.3	13620.1	10411.2	6200.8
72.5°	10972.3	11186.3	12469.8	14931.6	17994.8	18509.4	17783.9	14627.7	11347.5	7258.1	3618.2
73°	11025.0	11130.5	12435.7	15167.2	18425.7	18683.0	17542.1	14320.8	10702.6	6510.9	3060.1
75°	10008.1	10364.7	11818.7	14782.7	17963.8	17917.2	16153.1	11933.5	7608.4	3419.7	1482.0
77.5°	7403.8	7630.1	9313.6	12156.7	14745.5	14447.9	12184.6	7627.0	3612.0	1268.1	799.9
80°	3618.2	3794.9	4935.8	7019.3	9642.3	9667.1	7561.9	3968.5	1547.1	716.2	545.7
82.5°	1807.5	1913.0	2371.8	3084.9	4743.6	4970.0	3835.2	2257.1	958.0	406.2	310.0
85°	1181.3	1255.7	1460.3	1509.9	2012.2	2123.8	1785.8	1761.0	623.2	220.1	251.1
87.5°	784.4	796.8	896.0	762.7	806.1	775.1	861.9	1109.9	182.9	93.0	68.2
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°	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7	4932.7
2.5°	4917.2	4873.8	4827.3	4762.2	4715.7	4644.4	4579.3	4551.4	4545.2	4548.3	4517.3
5°	4790.1	4728.1	4635.1	4501.8	4424.3	4306.5	4207.3	4154.5	4098.7	4108.0	4083.2
7.5°	4613.4	4545.2	4402.6	4247.6	4055.3	3887.9	3794.9	3664.7	3590.3	3534.5	3565.5
10°	4557.6	4439.8	4225.9	4011.9	3714.3	3494.2	3280.2	3131.4	3029.1	2929.9	2973.3
12.5°	4529.7	4411.9	4114.2	3798.0	3413.5	3078.7	2778.0	2595.0	2449.3	2362.5	2396.6
15°	4504.9	4359.2	4008.8	3562.4	3131.4	2691.2	2353.2	2111.4	1971.9	1888.1	1897.4
17.5°	4539.0	4331.3	3853.8	3332.9	2821.4	2350.1	1975.0	1723.8	1581.2	1528.5	1516.1
20°	4504.9	4300.3	3701.9	3103.5	2511.3	2024.6	1664.9	1457.2	1358.0	1314.6	1305.3
22.5°	4517.3	4225.9	3543.8	2849.3	2223.0	1751.7	1457.2	1299.1	1221.6	1199.9	1206.1
25°	4576.2	4182.4	3385.6	2570.2	1937.8	1550.2	1323.9	1203.0	1147.2	1125.4	1131.6
27.5°	4619.6	4219.7	3243.0	2306.7	1695.9	1370.4	1212.3	1131.6	1094.4	1078.9	1075.8
30°	4728.1	4241.4	3103.5	2071.1	1497.5	1252.6	1134.7	1069.6	1044.8	1035.5	1032.4
32.5°	4889.3	4281.7	2942.3	1854.0	1351.8	1140.9	1072.7	1016.9	1010.7	1001.4	1004.5
35°	5152.9	4421.2	2762.5	1668.0	1212.3	1066.5	1007.6	970.4	970.4	970.4	979.7
37.5°	5531.1	4616.5	2601.2	1491.3	1122.3	1001.4	951.8	939.4	933.2	942.5	948.7
40°	6017.9	4852.1	2471.0	1351.8	1044.8	958.0	914.6	908.4	905.3	902.2	908.4
42.5°	6551.2	5152.9	2359.4	1243.3	989.0	911.5	880.5	874.3	861.9	868.1	877.4
45°	7081.3	5524.9	2260.2	1156.5	951.8	886.7	843.3	840.2	834.0	830.9	846.4
47.5°	7670.4	5890.8	2229.2	1103.7	923.9	849.5	818.5	815.4	796.8	793.7	806.1
50°	8129.3	6160.5	2263.3	1078.9	883.6	821.6	799.9	784.4	768.9	753.4	753.4
52.5°	8445.5	6346.5	2288.1	1060.3	861.9	784.4	756.5	750.3	734.8	719.3	713.1
55°	8730.7	6458.1	2294.3	1063.4	840.2	741.0	722.4	719.3	710.0	685.2	679.0
57.5°	8826.9	6411.6	2170.3	1035.5	827.8	713.1	688.3	694.5	682.1	660.4	657.3
60°	8817.6	6089.2	1888.1	998.3	799.9	682.1	651.1	669.7	669.7	644.9	641.8
62.5°	8281.2	5345.1	1544.0	927.0	768.9	651.1	617.0	644.9	654.2	638.7	635.6
65°	7168.1	4353.0	1289.8	855.7	722.4	617.0	582.9	613.9	629.4	623.2	620.1
67.5°	5931.1	3329.8	1072.7	762.7	663.5	570.5	542.6	564.3	573.6	576.7	579.8
70°	4191.7	2216.8	896.0	660.4	582.9	520.9	489.9	493.0	489.9	499.2	499.2
72.5°	2278.8	1277.4	728.6	561.2	502.3	452.7	431.0	415.5	415.5	412.4	412.4
73°	1950.2	1147.2	694.5	545.7	480.6	440.3	415.5	403.1	403.1	400.0	396.9
75°	1094.4	840.2	595.3	468.2	415.5	384.5	365.8	347.2	344.1	344.1	344.1
77.5°	719.3	654.2	474.4	375.1	334.8	306.9	300.7	282.1	282.1	282.1	279.0
80°	539.5	514.7	365.8	285.2	257.3	235.6	229.4	217.0	213.9	201.5	204.6
82.5°	359.6	406.2	266.6	201.5	173.6	161.2	161.2	158.1	148.8	133.3	133.3
85°	285.2	331.7	192.2	124.0	102.3	86.8	89.9	86.8	83.7	68.2	65.1
87.5°	52.7	133.3	55.8	34.1	24.8	15.5	15.5	9.3	6.2	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)