

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: P480473

Luminaire Tested: **IFLD-S-SA6B-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480473
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-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

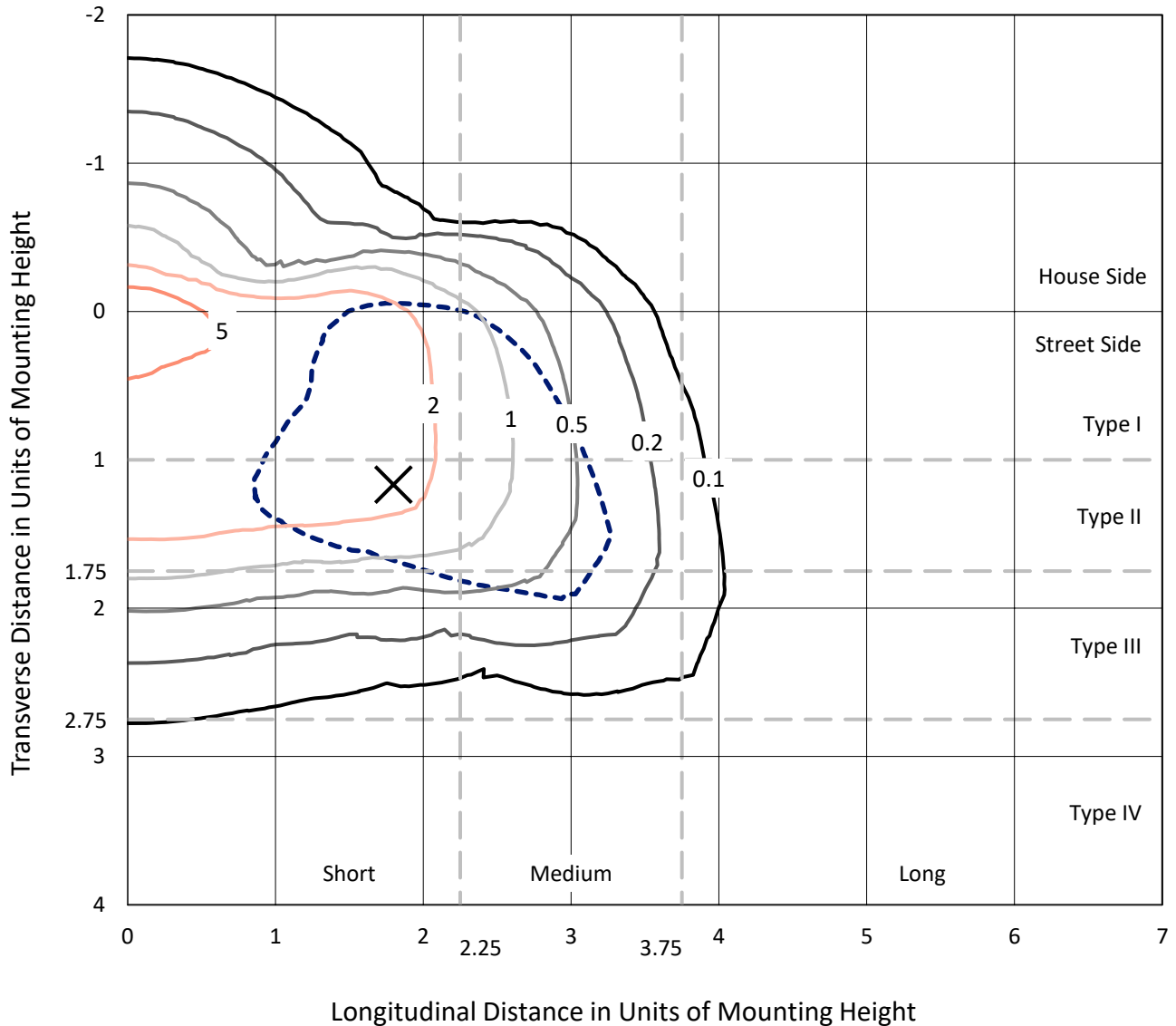
Lumens per Lamp: N/A
Luminaire Lumens: 32485.3 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

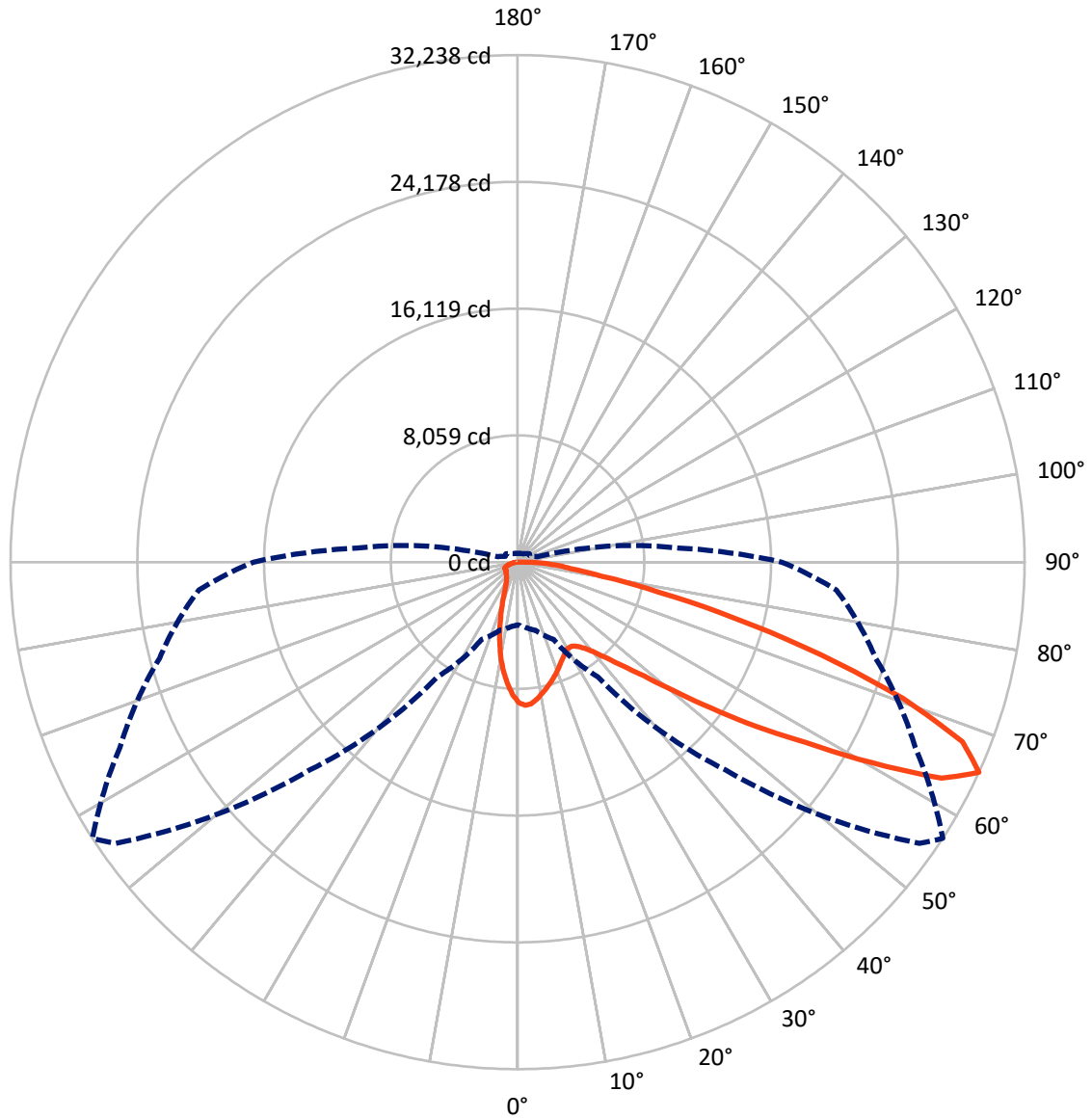
× Max cd
 - - - 1/2 Max cd



Based on 30 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 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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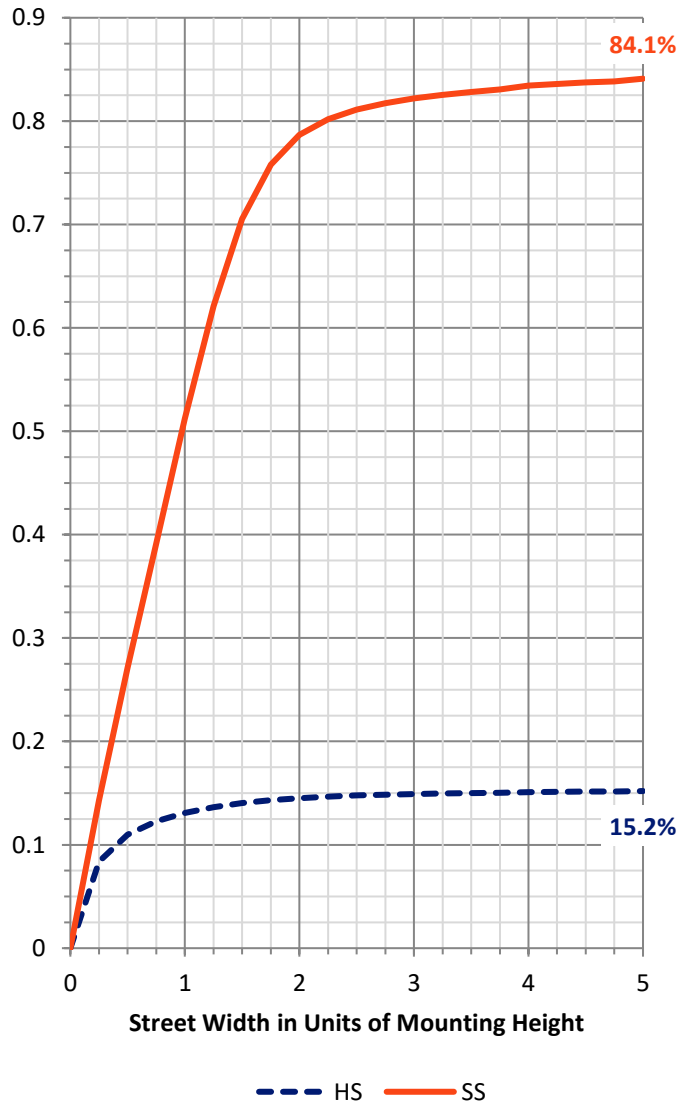
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4981.9	0.0	4981.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	27503.4	0.0	27503.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	32485.3	0.0	32485.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.1	2.3
10°-20°	1610.0	5.0
20°-30°	2081.5	6.4
30°-40°	2801.1	8.6
40°-50°	4466.4	13.7
50°-60°	7888.8	24.3
60°-70°	8678.8	26.7
70°-80°	3630.5	11.2
80°-90°	580.2	1.8
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°	32485.3	100.0
0°-180°	32485.3	100.0

Coefficient of Utilization



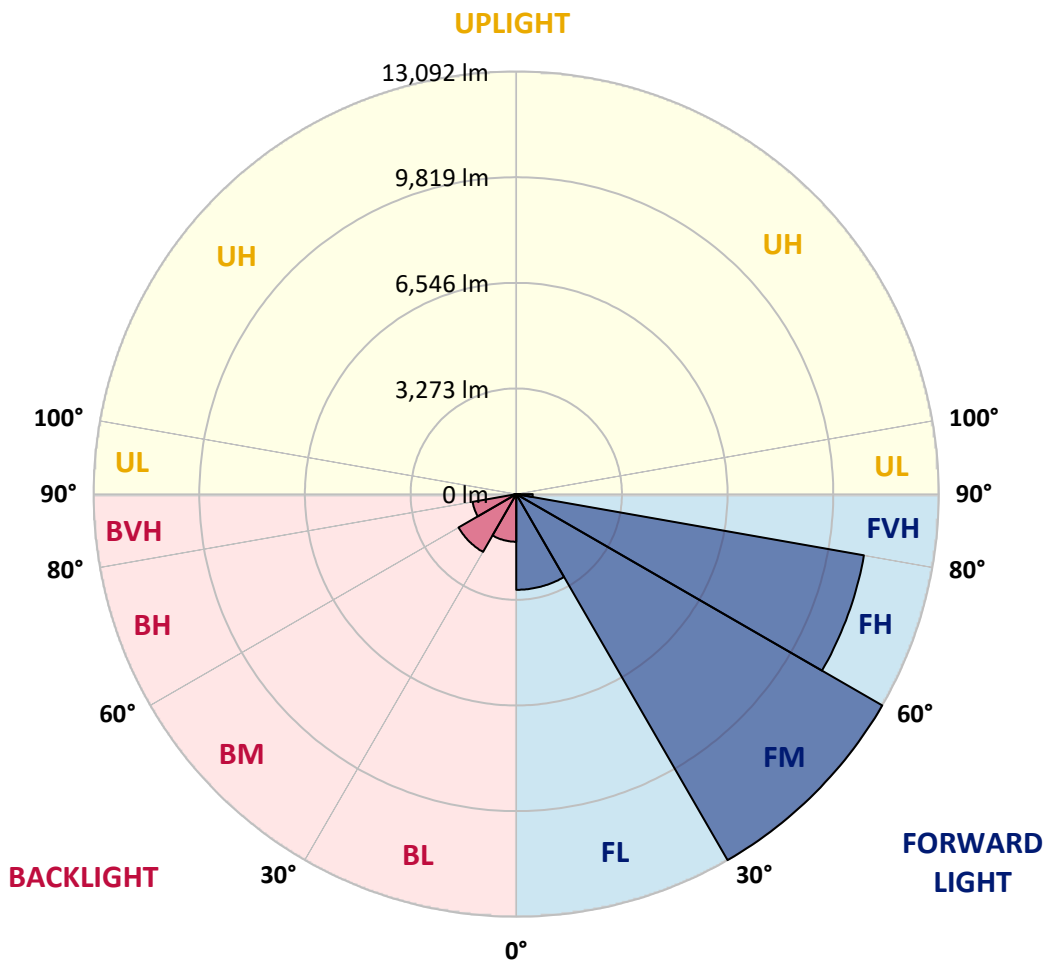
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2964.2	9.1			
FM (30°-60°)	13091.5	40.3			
FH (60°-80°)	10935.5	33.7			G4/12000
FVH (80°-90°)	512.2	1.6			G4/750
BL (0°-30°)	1475.4	4.5	B3/2500		
BM (30°-60°)	2064.8	6.4	B2/2500		
BH (60°-80°)	1373.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	68.1	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0
2.5°	9174.2	9188.9	9188.9	9218.1	9119.4	9166.9	9159.6	9115.8	9130.4	9053.6	8976.9
5°	8914.7	8903.8	8962.3	8969.6	9046.3	9068.3	9086.5	9057.3	9064.6	8896.5	8823.4
7.5°	8249.5	8245.9	8344.5	8428.6	8589.4	8739.3	8838.0	8808.7	8848.9	8742.9	8571.2
10°	7460.0	7544.1	7646.4	7730.5	8026.6	8216.6	8472.5	8498.1	8651.6	8626.0	8315.3
12.5°	6867.9	6904.4	6981.2	7222.4	7492.9	7807.2	8172.8	8205.7	8355.5	8428.6	8158.1
15°	6381.8	6414.7	6513.4	6692.4	6995.8	7368.6	7832.8	7916.9	8216.6	8242.2	7953.5
17.5°	6027.2	6052.8	6118.6	6297.7	6546.2	7025.1	7463.7	7613.5	8008.3	8132.6	7741.5
20°	5888.3	5833.5	5870.1	5983.4	6231.9	6601.1	7167.6	7299.2	7803.6	8048.5	7540.4
22.5°	5826.2	5778.7	5800.6	5793.3	5990.7	6253.8	6849.6	6988.5	7609.9	7949.8	7361.3
25°	5873.7	5873.7	5851.8	5833.5	5855.4	6027.2	6506.0	6721.7	7350.4	7865.7	7178.6
27.5°	6129.6	6030.9	6041.8	5965.1	5943.2	5943.2	6352.5	6480.5	7266.3	7818.2	7028.7
30°	6294.0	6341.6	6345.2	6231.9	6118.6	5913.9	6210.0	6334.3	7196.9	7876.7	6941.0
32.5°	6714.4	6692.4	6630.3	6608.4	6440.2	6210.0	6279.4	6363.5	7156.6	8008.3	6966.6
35°	7134.7	7123.7	7127.4	7116.4	6941.0	6601.1	6465.8	6579.1	7229.7	8238.5	7054.3
37.5°	7569.7	7598.9	7723.2	7723.2	7536.8	7167.6	6988.5	6955.6	7496.6	8615.0	7262.6
40°	8004.6	8077.7	8234.9	8483.4	8220.3	7876.7	7587.9	7536.8	7818.2	9119.4	7763.4
42.5°	8421.3	8541.9	8852.6	9221.8	9134.0	8790.5	8406.7	8348.2	8479.8	9868.7	8461.5
45°	8954.9	9057.3	9547.1	10113.6	10234.2	9930.8	9481.3	9433.8	9426.4	10965.2	9422.8
47.5°	9766.4	9876.0	10365.8	10936.0	11308.8	11356.3	10851.9	10800.8	10625.3	12445.5	10830.0
50°	10782.5	10961.6	11374.6	12039.8	12580.8	13088.8	12946.3	12796.4	12452.9	14167.1	12613.7
52.5°	11524.5	11743.8	12303.0	13154.6	14108.6	14916.4	15428.1	15428.1	14638.6	16056.8	14759.2
55°	11721.8	11853.4	12558.9	13790.6	15424.4	17467.6	18538.6	18458.1	17241.0	18045.1	17255.6
57.5°	10936.0	11107.8	11963.1	13253.3	16115.2	19854.4	21627.1	21645.4	20084.7	20355.1	19719.2
60°	8772.2	8827.0	9835.8	11561.0	15450.0	21777.0	25845.1	25914.5	23319.4	22412.9	20972.8
62.5°	6063.8	6239.2	6999.5	8512.7	12800.1	21561.3	29913.2	30256.7	25910.9	23498.5	21170.2
65°	3991.3	4097.3	4503.1	5424.1	8911.1	18688.4	31177.8	32237.8	27891.9	23560.6	20344.2
67.5°	2894.8	2913.1	3033.7	3508.9	5354.7	13439.7	29017.7	30512.6	28633.9	23041.6	18407.0
70°	2339.3	2353.9	2397.7	2701.1	3457.7	8410.3	23666.6	26009.5	26407.9	20581.7	14825.0
72.5°	1900.6	1918.9	1973.7	2258.8	2851.0	4678.5	17306.8	20161.4	21480.9	15227.1	9854.1
75°	1494.9	1509.5	1641.1	1922.6	2679.2	3212.8	11480.6	14276.7	14455.8	8900.1	4612.7
77.5°	1023.4	1049.0	1209.8	1630.2	2522.0	2810.8	7156.6	9145.0	8205.7	3483.3	1586.3
80°	650.6	687.2	782.2	1235.4	2229.6	2682.8	4451.9	5460.7	3592.9	1191.6	763.9
82.5°	383.8	420.3	515.4	800.5	1750.8	2489.1	3136.1	3417.5	1685.0	610.4	460.5
85°	212.0	237.6	310.7	482.5	1027.1	2211.3	2511.0	2452.6	964.9	325.3	288.8
87.5°	69.4	80.4	113.3	193.7	424.0	1041.7	1505.9	1414.5	500.7	149.9	113.3
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°	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0	8933.0
2.5°	8925.7	8914.7	8750.3	8626.0	8414.0	8238.5	8169.1	8074.1	8070.4	8001.0	7982.7
5°	8710.1	8596.7	8344.5	8103.3	7726.8	7474.6	7244.4	7083.5	7017.8	6875.2	6842.3
7.5°	8432.3	8282.4	7895.0	7441.7	6999.5	6604.7	6246.5	5888.3	5687.3	5617.9	5541.1
10°	8143.5	7880.4	7306.5	6798.4	6180.7	5574.0	5011.1	4506.7	4232.6	4038.9	3954.8
12.5°	7913.2	7562.4	6831.3	6071.1	5256.0	4444.6	3790.3	3260.3	2949.6	2803.4	2737.7
15°	7653.7	7189.5	6312.3	5351.0	4334.9	3413.8	2774.2	2357.5	2233.3	2163.8	2152.8
17.5°	7379.6	6842.3	5749.4	4642.0	3435.8	2569.5	2156.5	1988.4	1933.5	1904.3	1889.7
20°	7123.7	6531.6	5171.9	3852.5	2690.1	2061.5	1867.7	1780.0	1776.4	1791.0	1787.3
22.5°	6761.9	6125.9	4601.7	3121.4	2149.2	1794.6	1670.4	1648.4	1670.4	1688.6	1696.0
25°	6557.2	5793.3	3965.8	2478.1	1776.4	1593.6	1553.4	1546.1	1579.0	1600.9	1597.3
27.5°	6345.2	5449.7	3373.6	1984.7	1557.1	1451.1	1443.8	1451.1	1484.0	1516.9	1513.2
30°	6180.7	5175.6	2818.1	1659.4	1388.9	1348.7	1341.4	1348.7	1367.0	1370.7	1370.7
32.5°	6045.5	4850.3	2346.6	1440.1	1286.6	1253.7	1261.0	1257.3	1261.0	1264.7	1268.3
35°	5965.1	4656.6	1959.1	1304.9	1202.5	1176.9	1173.3	1162.3	1166.0	1169.6	1166.0
37.5°	6136.9	4561.5	1652.1	1209.8	1144.0	1122.1	1114.8	1107.5	1096.5	1096.5	1096.5
40°	6396.4	4510.4	1465.7	1147.7	1100.2	1074.6	1052.7	1045.4	1045.4	1049.0	1052.7
42.5°	6911.8	4594.4	1337.8	1100.2	1045.4	1016.1	994.2	997.8	1008.8	1019.8	1012.5
45°	7657.4	4850.3	1279.3	1063.6	1012.5	972.3	957.6	954.0	964.9	983.2	997.8
47.5°	8633.3	5248.7	1257.3	1030.7	990.5	935.7	917.4	928.4	943.0	968.6	957.6
50°	10230.6	6144.2	1275.6	1001.5	957.6	917.4	895.5	884.5	895.5	913.8	921.1
52.5°	12317.6	7770.7	1345.1	986.9	935.7	902.8	866.3	848.0	858.9	873.6	873.6
55°	14814.0	9993.0	1538.8	968.6	899.1	880.9	840.7	804.1	811.4	811.4	807.8
57.5°	17014.4	11670.7	1769.1	943.0	877.2	851.6	800.5	756.6	749.3	752.9	756.6
60°	18001.3	12116.6	1878.7	935.7	877.2	815.1	745.6	701.8	690.8	683.5	683.5
62.5°	17829.5	11345.4	1655.8	902.8	899.1	785.8	694.5	646.9	632.3	617.7	621.4
65°	16791.4	10245.2	1304.9	858.9	902.8	767.6	643.3	595.8	570.2	551.9	548.3
67.5°	14894.4	8746.6	1034.4	826.0	866.3	734.7	599.4	544.6	522.7	504.4	497.1
70°	11652.4	6856.9	899.1	782.2	778.5	654.3	548.3	500.7	467.9	445.9	445.9
72.5°	7555.0	4334.9	771.2	694.5	672.5	548.3	475.2	445.9	420.3	402.1	402.1
75°	3421.2	2013.9	621.4	581.2	548.3	438.6	402.1	387.4	365.5	347.2	347.2
77.5°	1228.1	858.9	464.2	456.9	409.4	339.9	325.3	314.3	299.7	281.4	281.4
80°	687.2	544.6	347.2	332.6	285.1	252.2	233.9	233.9	226.6	215.6	212.0
82.5°	435.0	354.5	255.9	223.0	186.4	168.1	160.8	157.2	153.5	138.9	135.2
85°	274.1	241.2	168.1	131.6	109.7	84.1	80.4	76.8	69.4	62.1	62.1
87.5°	124.3	138.9	65.8	40.2	29.2	18.3	11.0	3.7	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)