

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: P481071

Luminaire Tested: **IFLD-L-SA7E-830-U-SL4**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481071
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

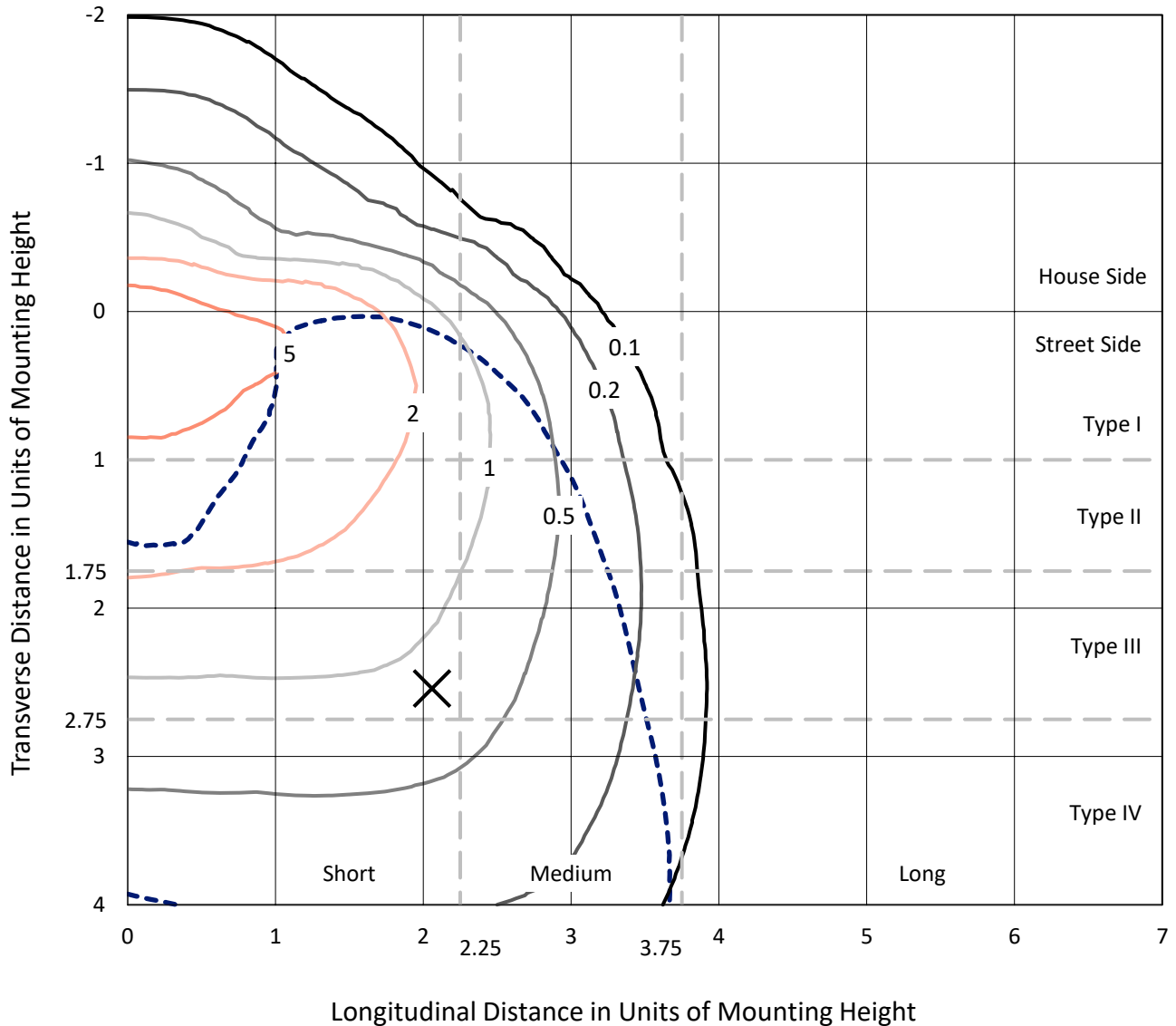
Lumens per Lamp: N/A
Luminaire Lumens: 43388.6 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7
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

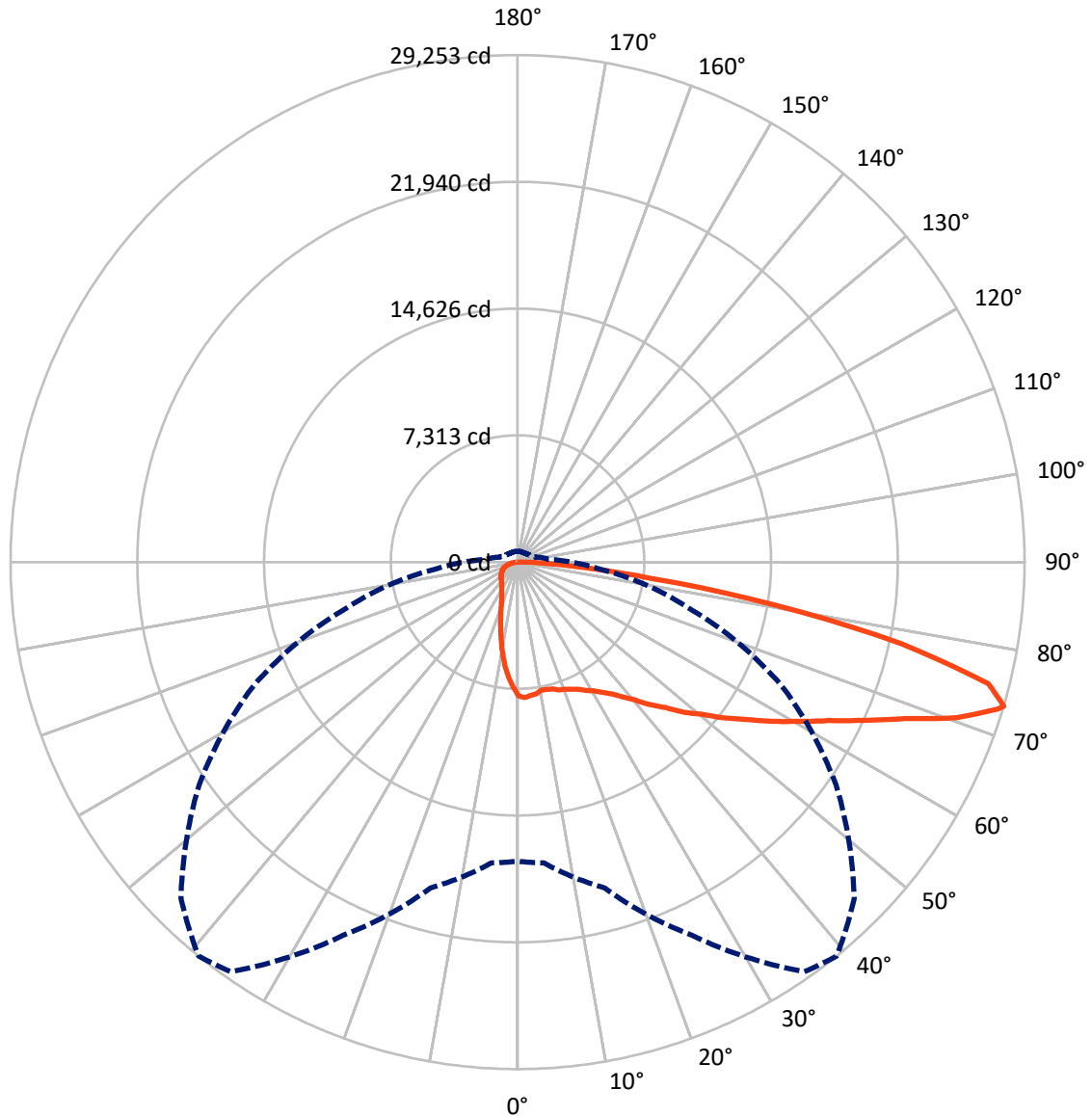
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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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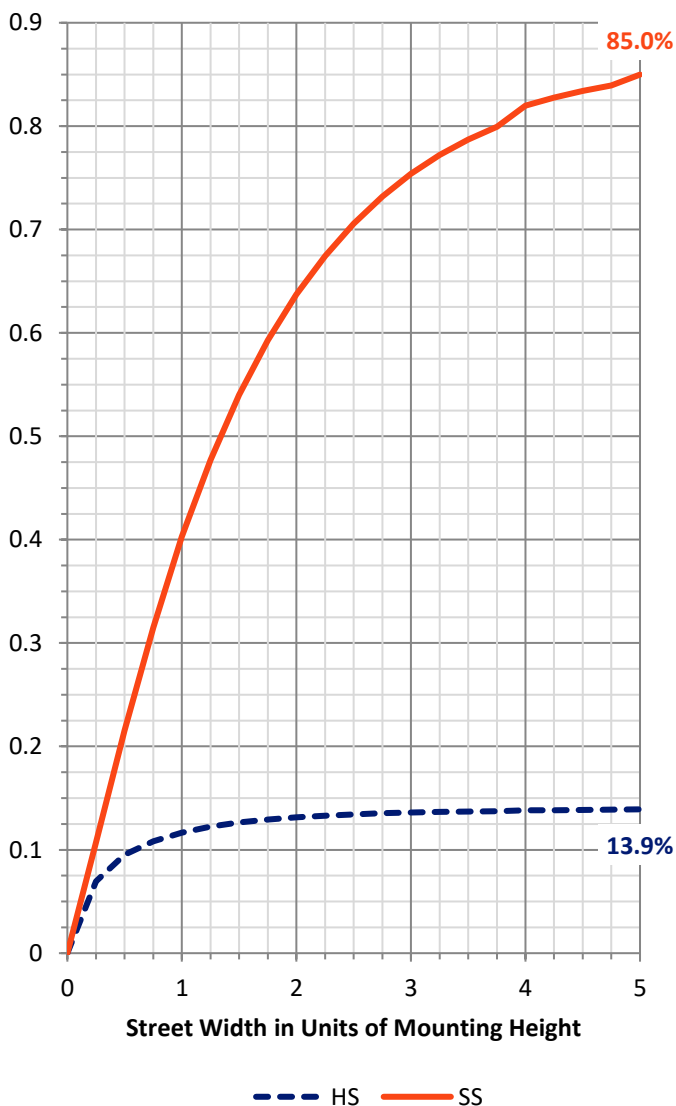
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6099.2	0.0	6099.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	37289.4	0.0	37289.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	43388.6	0.0	43388.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.5	1.5
10°-20°	1704.4	3.9
20°-30°	2604.5	6.0
30°-40°	3797.4	8.8
40°-50°	5738.3	13.2
50°-60°	8309.4	19.2
60°-70°	10557.5	24.3
70°-80°	8558.5	19.7
80°-90°	1448.0	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°	43388.6	100.0
0°-180°	43388.6	100.0



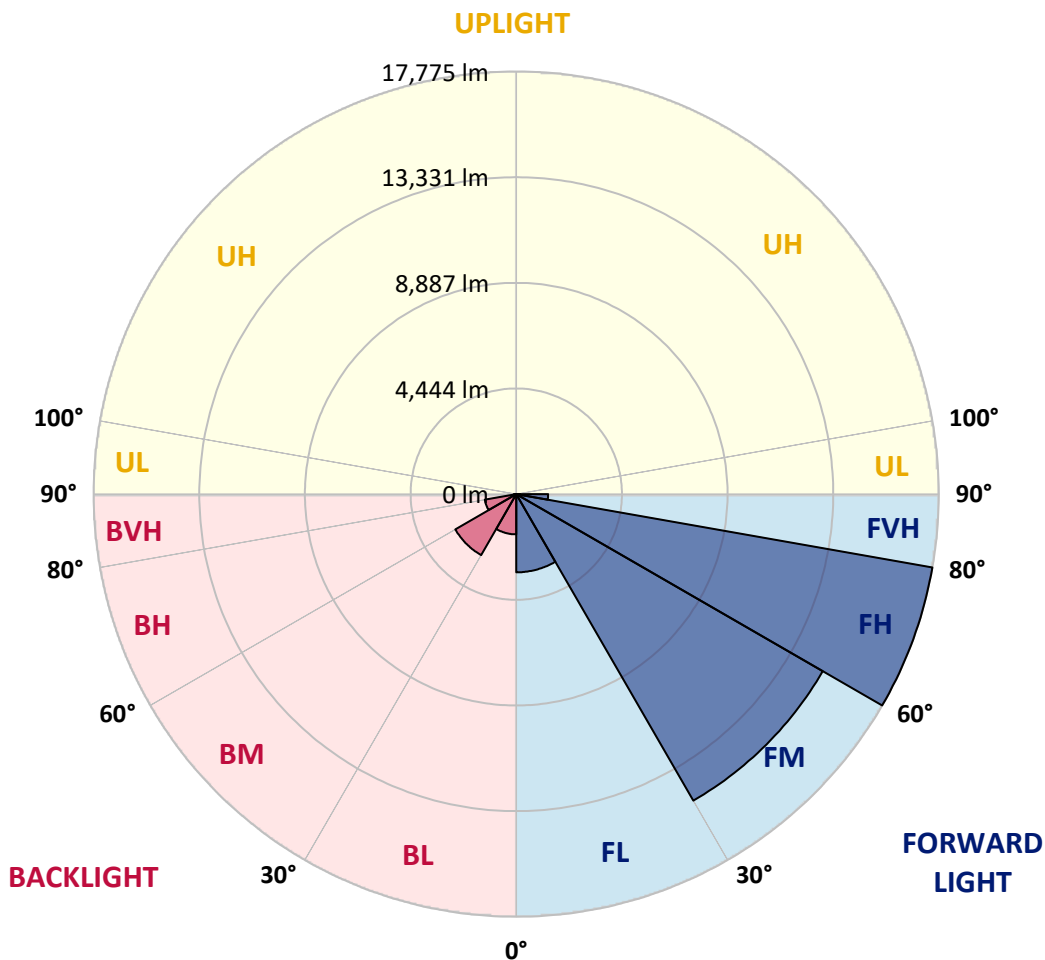
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3287.9	7.6			
FM (30°-60°)	14885.1	34.3			
FH (60°-80°)	17774.6	41.0			G5
FVH (80°-90°)	1341.8	3.1			G5
BL (0°-30°)	1691.4	3.9	B3/2500		
BM (30°-60°)	2960.1	6.8	B3/5000		
BH (60°-80°)	1341.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	106.2	0.2			G2/225
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°	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4
2.5°	7907.9	7825.4	7839.9	7810.8	7839.9	7830.2	7815.7	7742.9	7815.7	7742.9	7723.4
5°	7801.1	7801.1	7849.7	7776.8	7786.5	7738.0	7786.5	7733.1	7684.6	7563.2	7529.3
7.5°	7767.1	7762.3	7767.1	7665.2	7713.7	7684.6	7636.1	7577.8	7480.7	7403.0	7291.4
10°	7534.1	7582.7	7529.3	7558.4	7597.2	7509.8	7505.0	7490.4	7446.7	7344.8	7276.8
12.5°	7407.9	7490.4	7519.5	7495.3	7529.3	7539.0	7509.8	7490.4	7437.0	7369.1	7174.9
15°	7461.3	7364.2	7446.7	7606.9	7572.9	7597.2	7602.1	7582.7	7558.4	7432.2	7306.0
17.5°	7475.9	7417.6	7592.4	7626.3	7670.0	7757.4	7699.2	7694.3	7602.1	7514.7	7330.2
20°	7509.8	7485.6	7626.3	7806.0	7810.8	7825.4	7854.5	7781.7	7733.1	7582.7	7301.1
22.5°	7636.1	7718.6	7849.7	7927.3	7971.0	7980.7	7980.7	7835.1	7781.7	7660.3	7437.0
25°	8014.7	7927.3	8111.8	8204.0	8140.9	8126.4	8092.4	7961.3	7903.1	7796.3	7500.1
27.5°	8291.4	8286.6	8393.4	8519.6	8349.7	8383.6	8262.3	8223.4	8092.4	8034.1	7611.8
30°	8670.1	8776.9	8772.0	8810.8	8587.5	8626.4	8471.0	8398.2	8325.4	8359.4	7941.9
32.5°	9155.5	9116.7	9179.8	9150.6	8927.3	8961.3	8776.9	8665.2	8689.5	8791.4	8393.4
35°	9466.2	9427.4	9451.6	9451.6	9383.7	9344.8	9267.2	9121.5	9238.0	9427.4	8898.2
37.5°	9801.1	9849.7	9990.5	9961.3	9874.0	9874.0	9864.3	9762.3	9912.8	10378.8	9704.1
40°	10097.3	10228.3	10315.7	10374.0	10475.9	10475.9	10558.4	10500.2	10772.0	11519.6	10689.5
42.5°	10408.0	10412.8	10888.5	10932.2	11160.4	11257.5	11320.6	11369.1	11878.8	12713.8	11742.9
45°	10806.0	10830.3	11247.8	11582.7	11937.1	11971.1	12209.0	12369.1	12995.4	14019.7	12888.6
47.5°	11330.3	11301.2	11747.8	12281.8	12723.5	12956.5	13243.0	13417.7	14189.6	15437.2	14141.0
50°	12019.6	11932.2	12189.5	13029.4	13548.8	13806.1	14315.8	14607.1	15510.0	16791.6	15000.3
52.5°	12859.4	12713.8	12917.7	13835.2	14417.7	14937.2	15422.6	15747.8	16689.6	17840.1	15636.2
55°	13747.8	13446.8	13505.1	14689.6	15529.4	16019.7	16684.8	17024.6	17985.8	18781.9	16272.1
57.5°	14626.5	14437.1	14320.6	15510.0	16854.7	17325.5	17937.2	18379.0	19194.5	19616.8	16811.0
60°	15364.3	15315.8	15126.5	16781.8	18257.6	18660.5	19301.3	19573.2	20189.7	20388.7	16820.7
62.5°	15971.2	15806.1	16107.1	17806.1	19684.8	20141.1	20845.0	20869.3	21306.2	20869.3	16325.5
65°	16446.9	16456.6	16937.2	19044.0	21335.3	22010.1	22578.1	22515.0	22233.4	20582.9	15155.6
67.5°	16878.9	17063.4	17767.3	20403.3	23456.7	24092.7	24723.7	23888.8	22485.8	19243.1	12869.2
70°	17218.7	17403.2	18888.7	22058.6	25956.8	26888.8	27029.6	24432.5	21325.6	16301.3	9708.9
72.5°	17179.9	17514.9	19524.6	23379.1	28175.3	28981.1	27845.1	22903.3	17767.3	11364.3	5665.1
73°	17262.4	17427.5	19471.2	23748.0	28850.0	29252.9	27466.5	22422.7	16757.6	10194.4	4791.3
75°	15670.2	16228.4	18505.2	23146.0	28126.7	28053.9	25291.7	18684.8	11912.8	5354.5	2320.4
77.5°	11592.4	11946.8	14582.8	19034.3	23087.8	22621.8	19078.0	11942.0	5655.4	1985.5	1252.4
80°	5665.1	5941.9	7728.3	10990.5	15097.4	15136.2	11840.0	6213.7	2422.4	1121.4	854.4
82.5°	2830.1	2995.2	3713.7	4830.2	7427.3	7781.7	6005.0	3534.0	1500.0	635.9	485.4
85°	1849.5	1966.1	2286.4	2364.1	3150.5	3325.3	2796.2	2757.3	975.7	344.7	393.2
87.5°	1228.2	1247.6	1402.9	1194.2	1262.2	1213.6	1349.5	1737.9	286.4	145.6	106.8
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°	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4	7723.4
2.5°	7699.2	7631.2	7558.4	7456.4	7383.6	7272.0	7170.0	7126.3	7116.6	7121.5	7072.9
5°	7500.1	7403.0	7257.4	7048.7	6927.3	6742.8	6587.5	6505.0	6417.6	6432.2	6393.3
7.5°	7223.4	7116.6	6893.3	6650.6	6349.6	6087.5	5941.9	5738.0	5621.5	5534.1	5582.6
10°	7136.0	6951.6	6616.6	6281.7	5815.6	5471.0	5136.0	4903.0	4742.8	4587.5	4655.4
12.5°	7092.4	6907.9	6441.9	5946.7	5344.8	4820.5	4349.6	4063.2	3835.0	3699.1	3752.5
15°	7053.5	6825.4	6276.8	5577.8	4903.0	4213.7	3684.5	3305.9	3087.4	2956.4	2970.9
17.5°	7106.9	6781.7	6034.1	5218.5	4417.6	3679.7	3092.3	2699.1	2475.8	2393.2	2373.8
20°	7053.5	6733.1	5796.2	4859.3	3932.1	3170.0	2606.8	2281.6	2126.3	2058.3	2043.7
22.5°	7072.9	6616.6	5548.6	4461.2	3480.6	2742.8	2281.6	2034.0	1912.7	1878.7	1888.4
25°	7165.2	6548.7	5301.1	4024.3	3034.0	2427.2	2072.9	1883.5	1796.1	1762.2	1771.9
27.5°	7233.1	6606.9	5077.8	3611.7	2655.4	2145.7	1898.1	1771.9	1713.6	1689.4	1684.5
30°	7403.0	6640.9	4859.3	3242.8	2344.7	1961.2	1776.7	1674.8	1636.0	1621.4	1616.5
32.5°	7655.5	6704.0	4606.9	2903.0	2116.5	1786.4	1679.6	1592.3	1582.6	1568.0	1572.8
35°	8068.1	6922.5	4325.3	2611.7	1898.1	1669.9	1577.7	1519.4	1519.4	1519.4	1534.0
37.5°	8660.3	7228.3	4072.9	2335.0	1757.3	1568.0	1490.3	1470.9	1461.2	1475.8	1485.5
40°	9422.5	7597.2	3869.0	2116.5	1636.0	1500.0	1432.1	1422.4	1417.5	1412.6	1422.4
42.5°	10257.5	8068.1	3694.2	1946.6	1548.6	1427.2	1378.7	1369.0	1349.5	1359.2	1373.8
45°	11087.6	8650.6	3538.9	1810.7	1490.3	1388.4	1320.4	1315.6	1305.8	1301.0	1325.3
47.5°	12009.9	9223.5	3490.4	1728.2	1446.6	1330.1	1281.6	1276.7	1247.6	1242.7	1262.2
50°	12728.4	9645.8	3543.8	1689.4	1383.5	1286.4	1252.4	1228.2	1203.9	1179.6	1179.6
52.5°	13223.5	9937.1	3582.6	1660.2	1349.5	1228.2	1184.5	1174.8	1150.5	1126.2	1116.5
55°	13670.1	10111.8	3592.3	1665.1	1315.6	1160.2	1131.1	1126.2	1111.7	1072.8	1063.1
57.5°	13820.6	10039.0	3398.1	1621.4	1296.1	1116.5	1077.7	1087.4	1068.0	1034.0	1029.1
60°	13806.1	9534.1	2956.4	1563.1	1252.4	1068.0	1019.4	1048.6	1048.6	1009.7	1004.9
62.5°	12966.2	8369.1	2417.5	1451.5	1203.9	1019.4	966.0	1009.7	1024.3	1000.0	995.2
65°	11223.5	6815.7	2019.5	1339.8	1131.1	966.0	912.6	961.2	985.5	975.7	970.9
67.5°	9286.6	5213.7	1679.6	1194.2	1038.9	893.2	849.5	883.5	898.1	902.9	907.8
70°	6563.2	3470.9	1402.9	1034.0	912.6	815.5	767.0	771.9	767.0	781.6	781.6
72.5°	3568.0	2000.0	1140.8	878.7	786.4	708.8	674.8	650.5	650.5	645.6	645.6
73°	3053.5	1796.1	1087.4	854.4	752.4	689.3	650.5	631.1	631.1	626.2	621.4
75°	1713.6	1315.6	932.1	733.0	650.5	602.0	572.8	543.7	538.8	538.8	538.8
77.5°	1126.2	1024.3	742.7	587.4	524.3	480.6	470.9	441.8	441.8	441.8	436.9
80°	844.7	805.8	572.8	446.6	402.9	368.9	359.2	339.8	335.0	315.5	320.4
82.5°	563.1	635.9	417.5	315.5	271.8	252.4	252.4	247.6	233.0	208.7	208.7
85°	446.6	519.4	301.0	194.2	160.2	135.9	140.8	135.9	131.1	106.8	101.9
87.5°	82.5	208.7	87.4	53.4	38.8	24.3	24.3	14.6	9.7	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)