

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: P480685

Luminaire Tested: **IFLD-L-SA8D-830-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480685  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-830-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

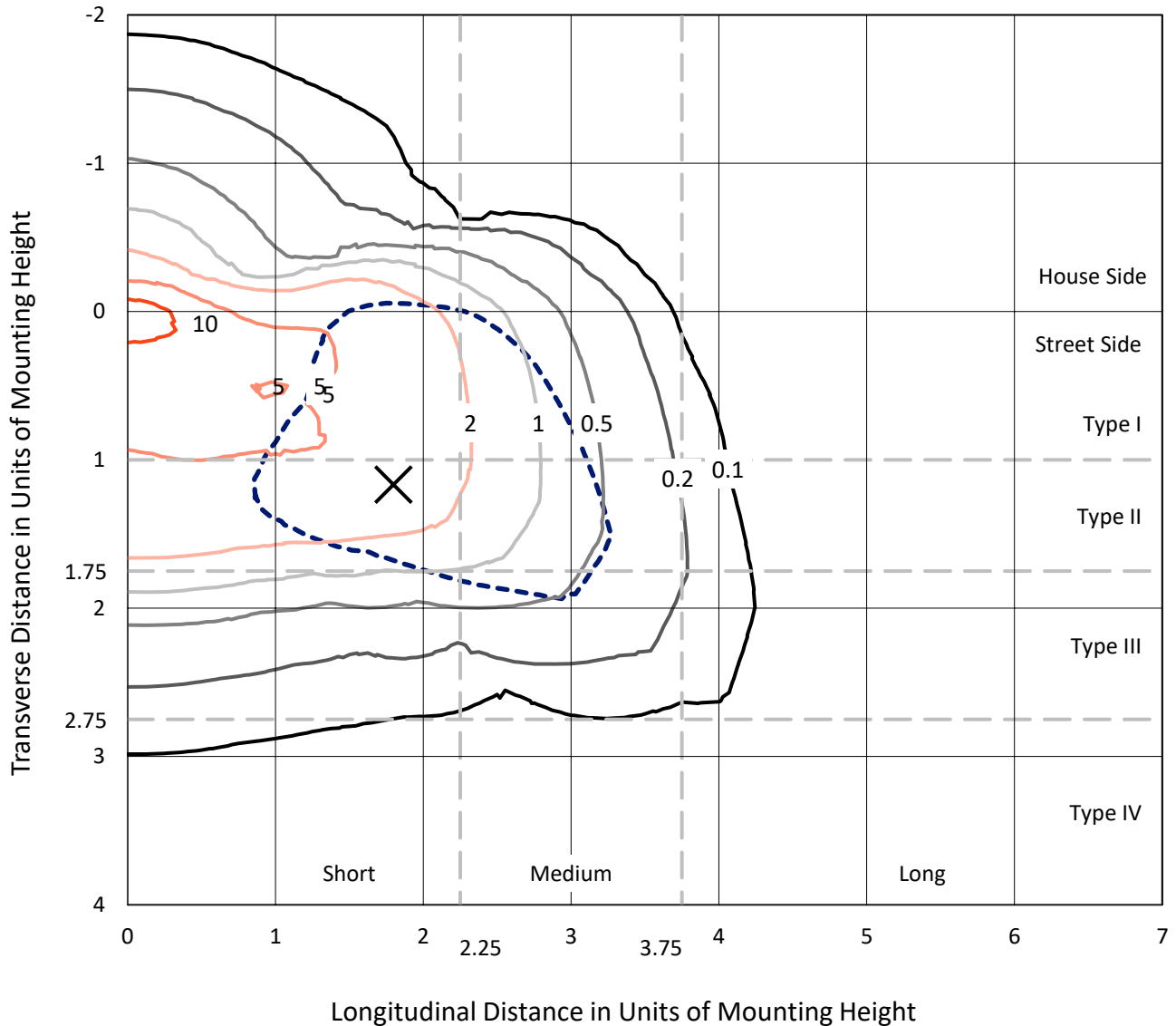
Lumens per Lamp: N/A  
Luminaire Lumens: 43709.1 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3  
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

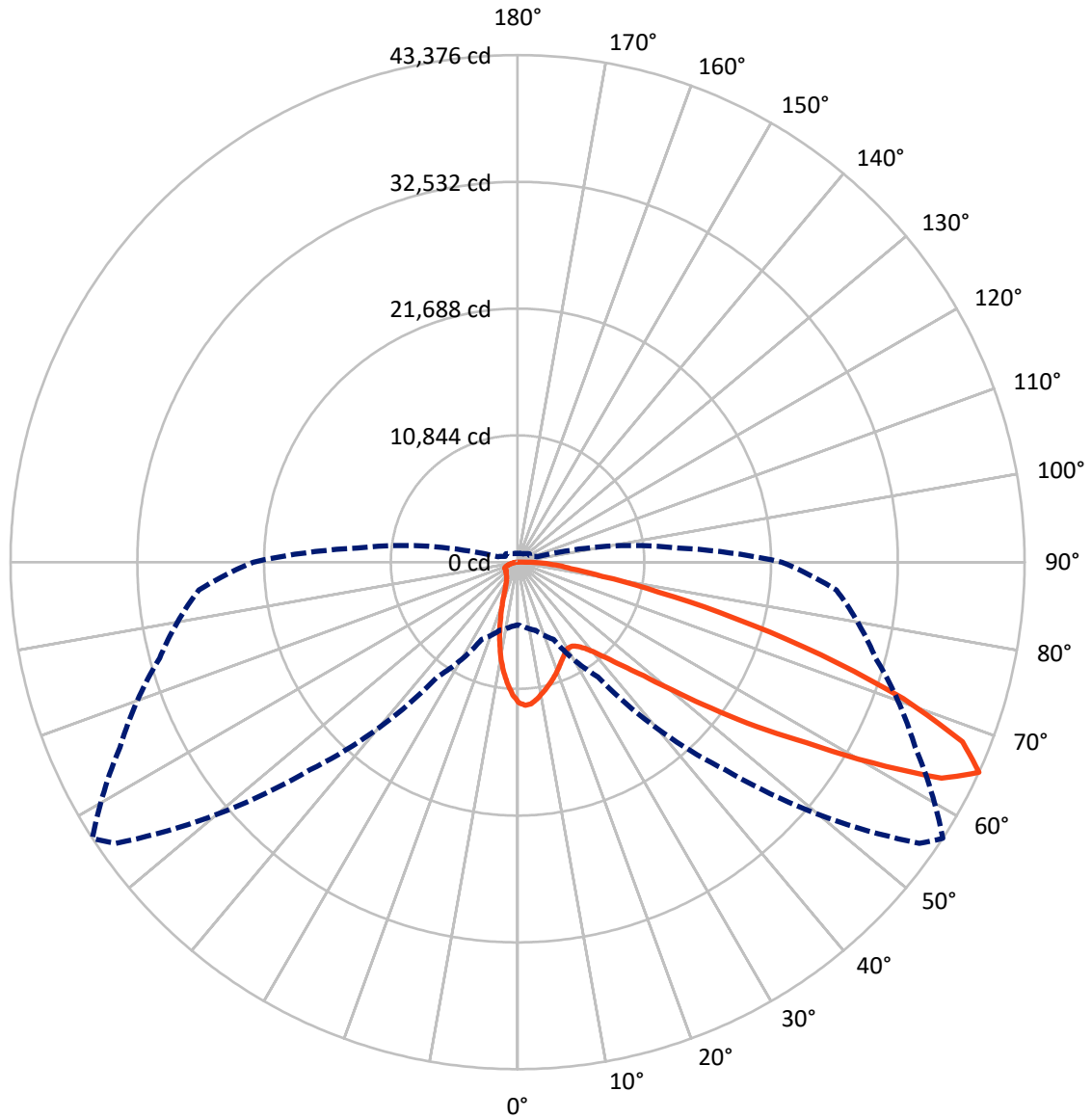
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 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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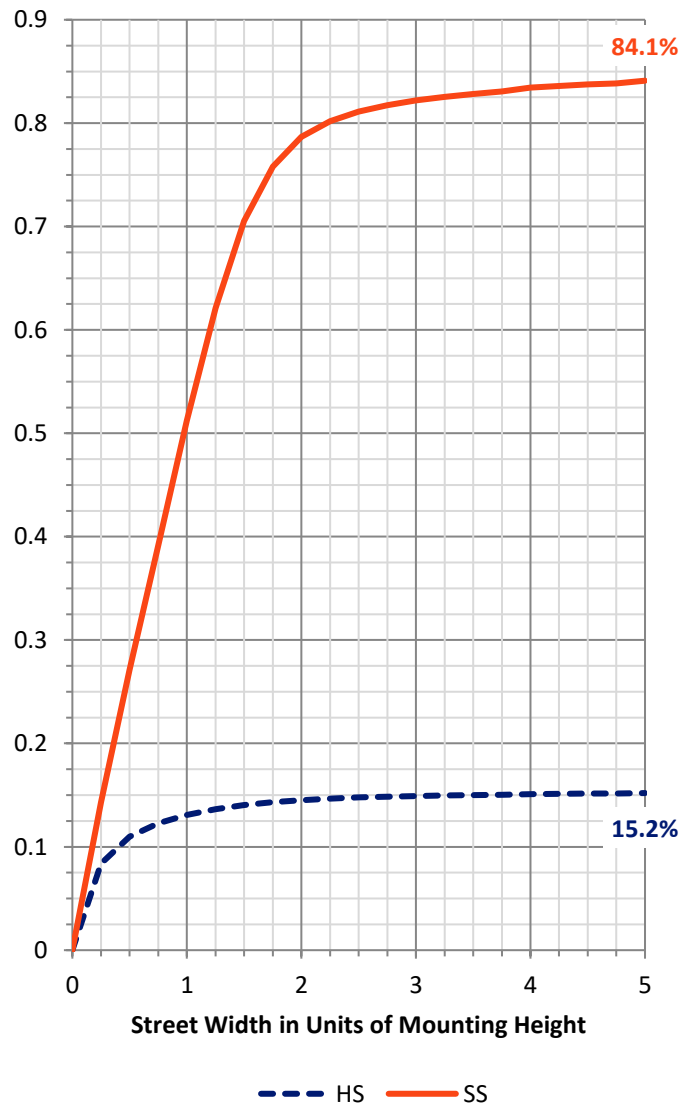
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6703.2	0.0	6703.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	37005.9	0.0	37005.9
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	43709.1	0.0	43709.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1006.5	2.3
10°-20°	2166.2	5.0
20°-30°	2800.7	6.4
30°-40°	3768.8	8.6
40°-50°	6009.6	13.7
50°-60°	10614.4	24.3
60°-70°	11677.3	26.7
70°-80°	4884.8	11.2
80°-90°	780.7	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°	43709.1	100.0
0°-180°	43709.1	100.0

**Coefficient of Utilization**



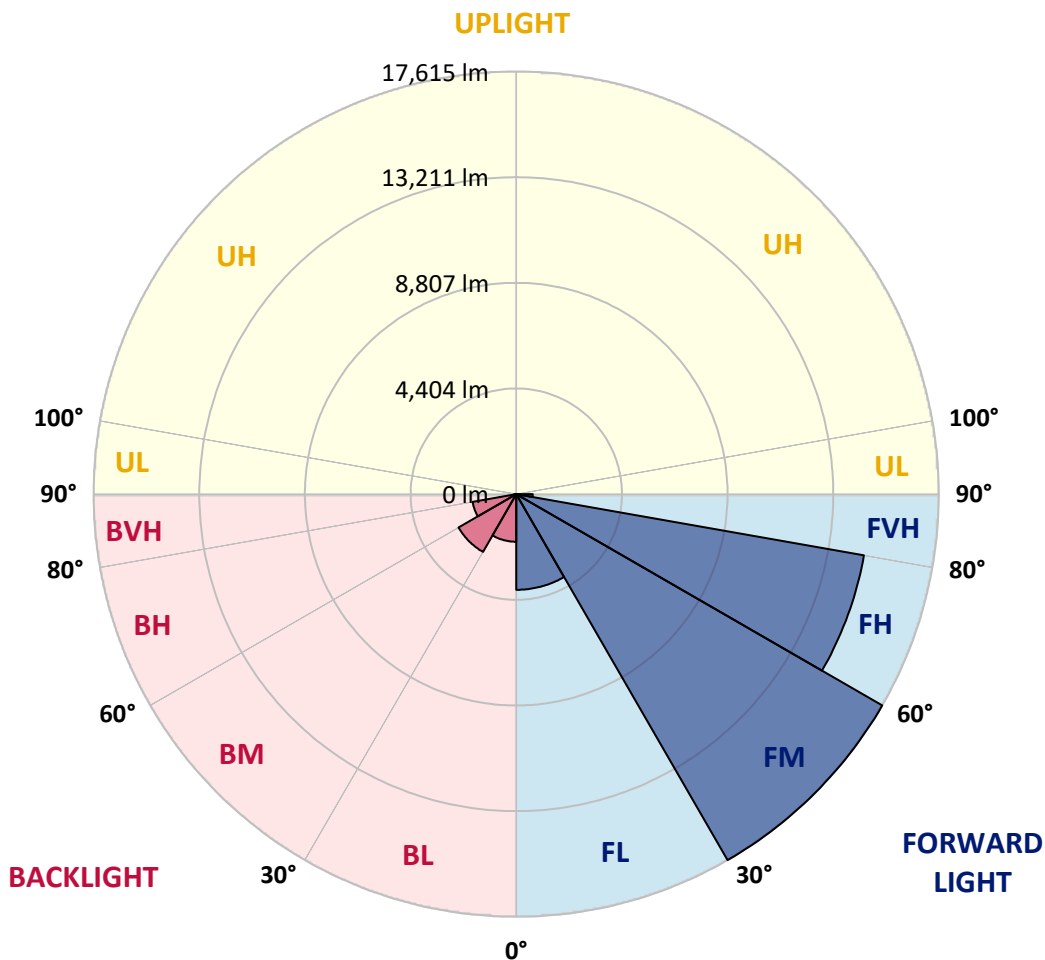
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3988.3	9.1			
FM (30°-60°)	17614.7	40.3			
FH (60°-80°)	14713.8	33.7			G5
FVH (80°-90°)	689.1	1.6			G4/750
BL (0°-30°)	1985.2	4.5	B3/2500		
BM (30°-60°)	2778.2	6.4	B3/5000		
BH (60°-80°)	1848.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	91.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4
2.5°	12344.0	12363.6	12363.6	12403.0	12270.2	12334.1	12324.3	12265.3	12284.9	12181.7	12078.4
5°	11994.8	11980.0	12058.7	12068.6	12171.8	12201.3	12225.9	12186.6	12196.4	11970.2	11871.8
7.5°	11099.7	11094.8	11227.6	11340.7	11557.1	11758.7	11891.5	11852.2	11906.3	11763.6	11532.5
10°	10037.5	10150.6	10288.3	10401.4	10799.7	11055.5	11399.7	11434.1	11640.7	11606.3	11188.2
12.5°	9240.8	9289.9	9393.2	9717.8	10081.7	10504.7	10996.5	11040.7	11242.3	11340.7	10976.8
15°	8586.7	8630.9	8763.7	9004.7	9412.9	9914.5	10539.1	10652.2	11055.5	11089.9	10701.4
17.5°	8109.6	8144.1	8232.6	8473.6	8808.0	9452.2	10042.4	10244.0	10775.1	10942.4	10416.1
20°	7922.8	7849.0	7898.2	8050.6	8385.0	8881.7	9644.0	9821.1	10499.7	10829.2	10145.7
22.5°	7839.2	7775.2	7804.7	7794.9	8060.5	8414.5	9216.2	9403.0	10239.1	10696.5	9904.7
25°	7903.1	7903.1	7873.6	7849.0	7878.5	8109.6	8753.9	9044.0	9889.9	10583.3	9658.8
27.5°	8247.3	8114.6	8129.3	8026.0	7996.5	7996.5	8547.3	8719.5	9776.8	10519.4	9457.1
30°	8468.6	8532.6	8537.5	8385.0	8232.6	7957.2	8355.5	8522.7	9683.4	10598.1	9339.1
32.5°	9034.2	9004.7	8921.1	8891.6	8665.4	8355.5	8449.0	8562.1	9629.3	10775.1	9373.5
35°	9599.8	9585.0	9589.9	9575.2	9339.1	8881.7	8699.8	8852.2	9727.6	11085.0	9491.6
37.5°	10185.0	10224.3	10391.5	10391.5	10140.7	9644.0	9403.0	9358.8	10086.6	11591.5	9771.9
40°	10770.2	10868.6	11080.1	11414.5	11060.4	10598.1	10209.6	10140.7	10519.4	12270.2	10445.6
42.5°	11330.9	11493.2	11911.2	12407.9	12289.9	11827.6	11311.2	11232.5	11409.6	13278.4	11385.0
45°	12048.9	12186.6	12845.6	13607.9	13770.2	13362.0	12757.1	12693.1	12683.3	14753.7	12678.4
47.5°	13140.7	13288.2	13947.2	14714.4	15216.0	15280.0	14601.3	14532.4	14296.4	16745.5	14571.8
50°	14507.8	14748.8	15304.5	16199.6	16927.5	17611.0	17419.2	17217.6	16755.3	19061.8	16971.7
52.5°	15506.2	15801.3	16553.7	17699.6	18983.1	20070.0	20758.5	20758.5	19696.2	21604.4	19858.5
55°	15771.7	15948.8	16897.9	18555.3	20753.6	23502.7	24943.6	24835.5	23197.8	24279.7	23217.5
57.5°	14714.4	14945.5	16096.3	17832.3	21683.1	26714.1	29099.3	29123.9	27023.9	27387.9	26532.1
60°	11803.0	11876.8	13234.1	15555.4	20788.0	29300.9	34774.6	34868.0	31376.3	30156.6	28219.0
62.5°	8158.8	8394.9	9417.8	11453.8	17222.5	29010.8	40248.2	40710.5	34863.1	31617.3	28484.5
65°	5370.4	5513.0	6058.9	7298.2	11989.9	25145.3	41949.8	43376.0	37528.6	31700.9	27373.1
67.5°	3895.0	3919.6	4081.9	4721.2	7204.7	18083.2	39043.3	41054.7	38526.9	31002.5	24766.6
70°	3147.5	3167.1	3226.2	3634.3	4652.3	11316.1	31843.5	34995.9	35531.9	27692.8	19947.1
72.5°	2557.3	2581.9	2655.7	3039.3	3836.0	6294.9	23286.3	27127.2	28902.6	20488.0	13258.7
75°	2011.4	2031.1	2208.1	2586.8	3604.8	4322.8	15447.2	19209.4	19450.3	11975.1	6206.4
77.5°	1377.0	1411.4	1627.8	2193.4	3393.4	3781.9	9629.3	12304.6	11040.7	4686.8	2134.4
80°	875.4	924.6	1052.4	1662.3	2999.9	3609.7	5990.0	7347.4	4834.3	1603.2	1027.8
82.5°	516.4	565.6	693.4	1077.0	2355.7	3349.1	4219.6	4598.2	2267.2	821.3	619.7
85°	285.2	319.7	418.0	649.2	1381.9	2975.3	3378.6	3299.9	1298.3	437.7	388.5
87.5°	93.4	108.2	152.5	260.6	570.5	1401.6	2026.2	1903.2	673.8	201.6	152.5
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°	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4	12019.4
2.5°	12009.5	11994.8	11773.5	11606.3	11321.0	11085.0	10991.5	10863.7	10858.7	10765.3	10740.7
5°	11719.4	11566.9	11227.6	10903.0	10396.5	10057.1	9747.3	9530.9	9442.4	9250.6	9206.3
7.5°	11345.6	11144.0	10622.7	10012.9	9417.8	8886.7	8404.7	7922.8	7652.3	7558.8	7455.6
10°	10957.1	10603.0	9830.9	9147.3	8316.2	7499.8	6742.5	6063.8	5694.9	5434.3	5321.2
12.5°	10647.3	10175.2	9191.6	8168.7	7072.0	5980.2	5099.9	4386.8	3968.8	3772.0	3683.5
15°	10298.1	9673.5	8493.2	7199.8	5832.6	4593.3	3732.7	3172.1	3004.8	2911.4	2896.7
17.5°	9929.3	9206.3	7735.9	6245.7	4622.8	3457.3	2901.6	2675.3	2601.6	2562.2	2542.6
20°	9585.0	8788.3	6958.8	5183.5	3619.6	2773.7	2513.1	2395.0	2390.1	2409.8	2404.9
22.5°	9098.1	8242.4	6191.7	4199.9	2891.7	2414.7	2247.5	2218.0	2247.5	2272.1	2281.9
25°	8822.7	7794.9	5335.9	3334.3	2390.1	2144.2	2090.1	2080.3	2124.5	2154.0	2149.1
27.5°	8537.5	7332.6	4539.2	2670.4	2095.0	1952.4	1942.6	1952.4	1996.7	2040.9	2036.0
30°	8316.2	6963.8	3791.7	2232.7	1868.8	1814.7	1804.9	1814.7	1839.3	1844.2	1844.2
32.5°	8134.2	6526.1	3157.3	1937.7	1731.1	1686.8	1696.7	1691.8	1696.7	1701.6	1706.5
35°	8026.0	6265.4	2636.0	1755.7	1618.0	1583.6	1578.6	1563.9	1568.8	1573.7	1568.8
37.5°	8257.2	6137.6	2222.9	1627.8	1539.3	1509.8	1500.0	1490.1	1475.4	1475.4	1475.4
40°	8606.3	6068.7	1972.1	1544.2	1480.3	1445.9	1416.4	1406.5	1406.5	1411.4	1416.4
42.5°	9299.8	6181.8	1800.0	1480.3	1406.5	1367.2	1337.7	1342.6	1357.3	1372.1	1362.3
45°	10303.0	6526.1	1721.3	1431.1	1362.3	1308.2	1288.5	1283.6	1298.3	1322.9	1342.6
47.5°	11616.1	7062.1	1691.8	1386.9	1332.8	1259.0	1234.4	1249.1	1268.8	1303.2	1288.5
50°	13765.2	8267.0	1716.4	1347.5	1288.5	1234.4	1204.9	1190.1	1204.9	1229.5	1239.3
52.5°	16573.4	10455.5	1809.8	1327.8	1259.0	1214.7	1165.5	1141.0	1155.7	1175.4	1175.4
55°	19932.3	13445.6	2070.4	1303.2	1209.8	1185.2	1131.1	1081.9	1091.8	1091.8	1086.9
57.5°	22892.9	15702.9	2380.3	1268.8	1180.3	1145.9	1077.0	1018.0	1008.2	1013.1	1018.0
60°	24220.7	16302.9	2527.8	1259.0	1180.3	1096.7	1003.3	944.2	929.5	919.6	919.6
62.5°	23989.6	15265.2	2227.8	1214.7	1209.8	1057.4	934.4	870.5	850.8	831.1	836.0
65°	22592.9	13784.9	1755.7	1155.7	1214.7	1032.8	865.6	801.6	767.2	742.6	737.7
67.5°	20040.5	11768.6	1391.8	1111.4	1165.5	988.5	806.5	732.8	703.3	678.7	668.8
70°	15678.3	9226.0	1209.8	1052.4	1047.5	880.3	737.7	673.8	629.5	600.0	600.0
72.5°	10165.3	5832.6	1037.7	934.4	904.9	737.7	639.3	600.0	565.6	541.0	541.0
75°	4603.2	2709.8	836.0	781.9	737.7	590.1	541.0	521.3	491.8	467.2	467.2
77.5°	1652.4	1155.7	624.6	614.7	550.8	457.4	437.7	422.9	403.3	378.7	378.7
80°	924.6	732.8	467.2	447.5	383.6	339.3	314.7	314.7	304.9	290.2	285.2
82.5°	585.2	477.0	344.3	300.0	250.8	226.2	216.4	211.5	206.6	186.9	182.0
85°	368.8	324.6	226.2	177.0	147.5	113.1	108.2	103.3	93.4	83.6	83.6
87.5°	167.2	186.9	88.5	54.1	39.3	24.6	14.8	4.9	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)