

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: P480681

Luminaire Tested: **IFLD-L-SA7E-830-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480681  
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-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

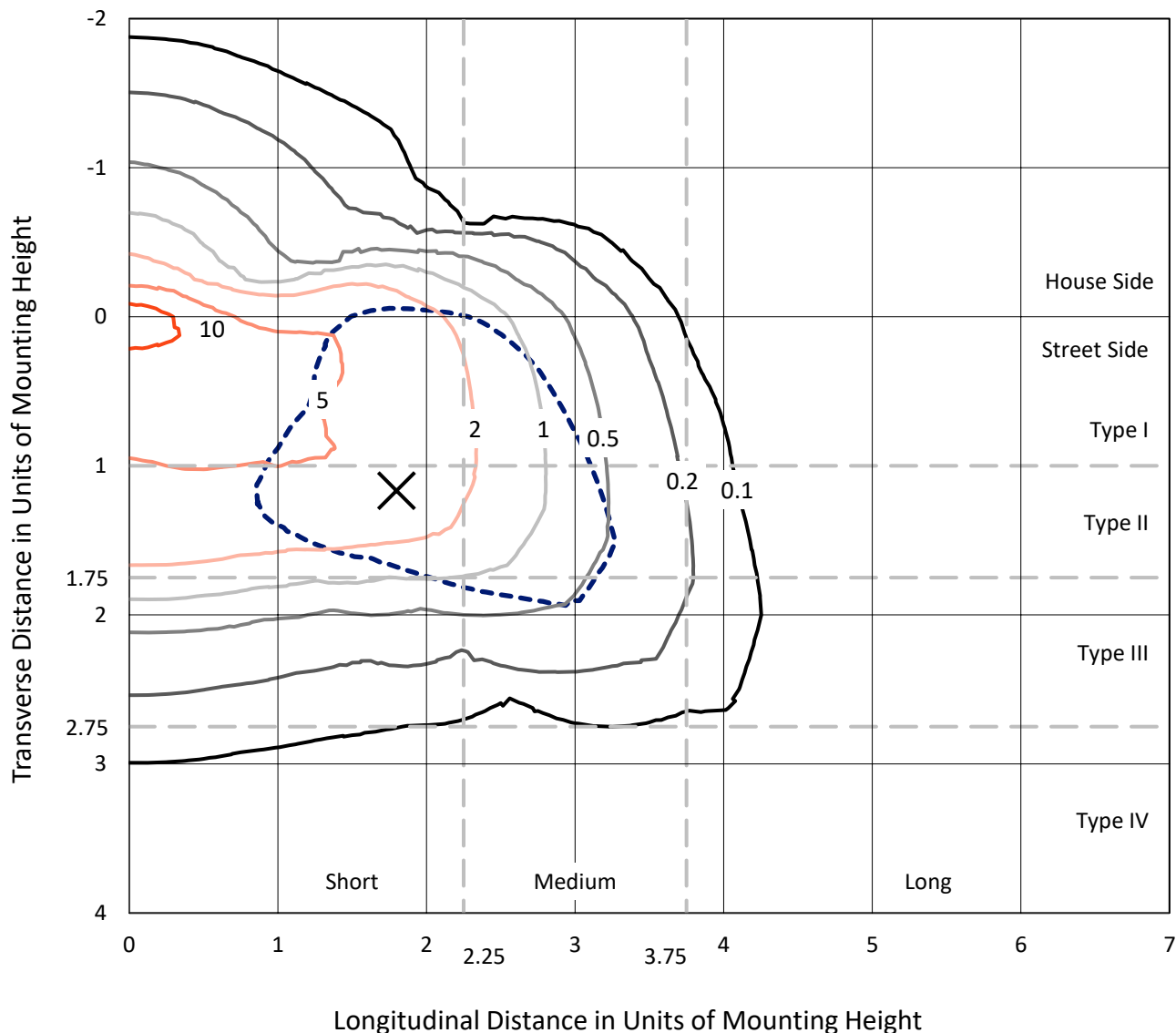
Lumens per Lamp: N/A  
Luminaire Lumens: 44260.9 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

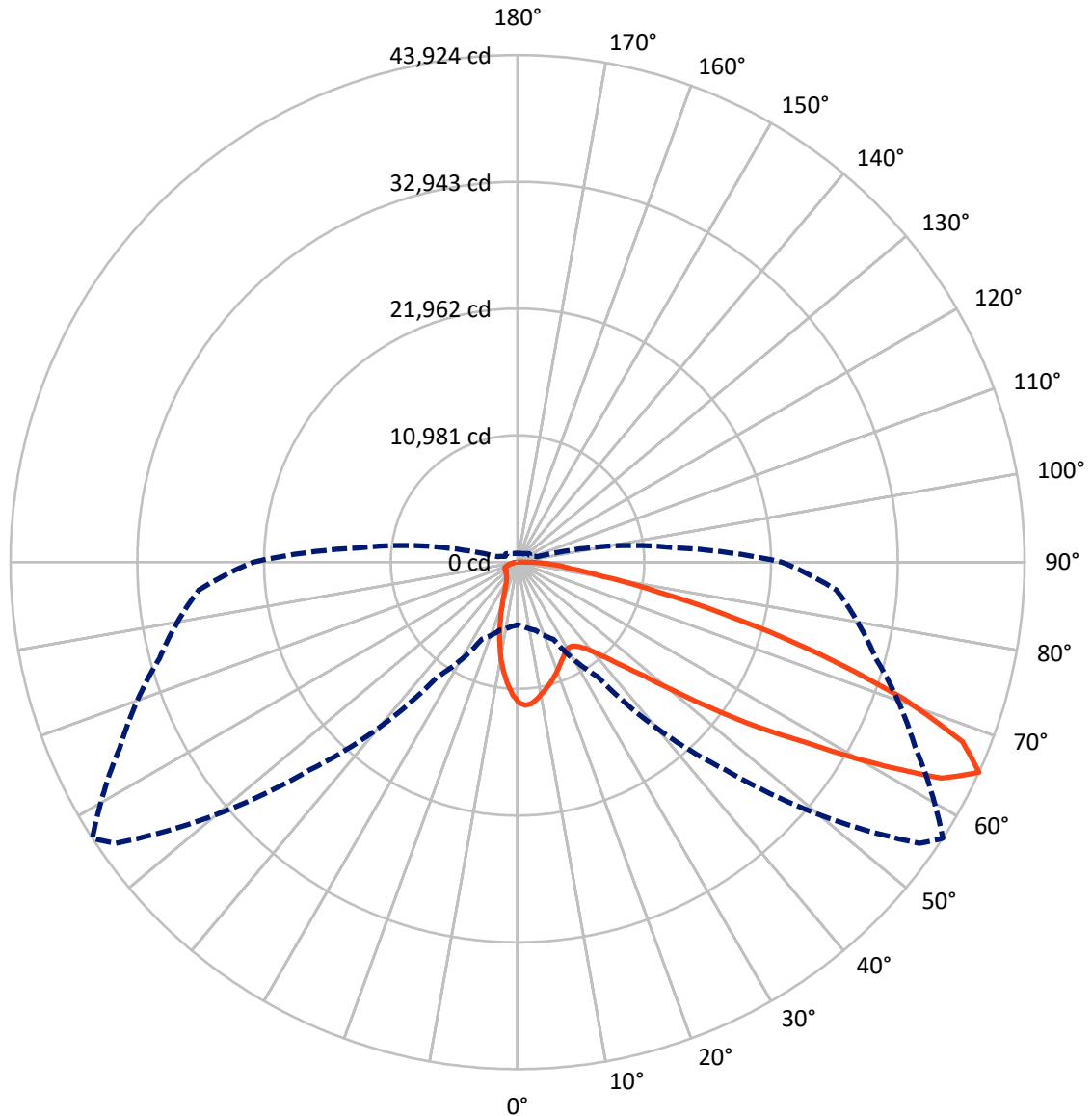
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 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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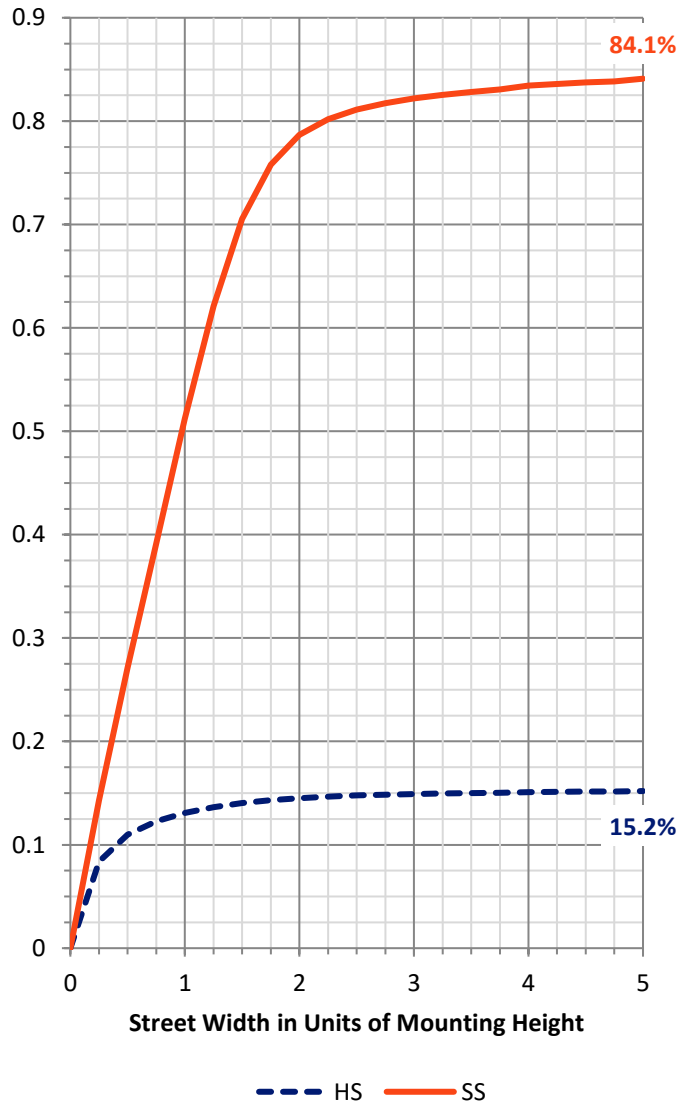
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6787.8	0.0	6787.8
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	37473.1	0.0	37473.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	44260.9	0.0	44260.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1019.2	2.3
10°-20°	2193.6	5.0
20°-30°	2836.1	6.4
30°-40°	3816.4	8.6
40°-50°	6085.5	13.7
50°-60°	10748.4	24.3
60°-70°	11824.7	26.7
70°-80°	4946.5	11.2
80°-90°	790.5	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°	44260.9	100.0
0°-180°	44260.9	100.0

**Coefficient of Utilization**

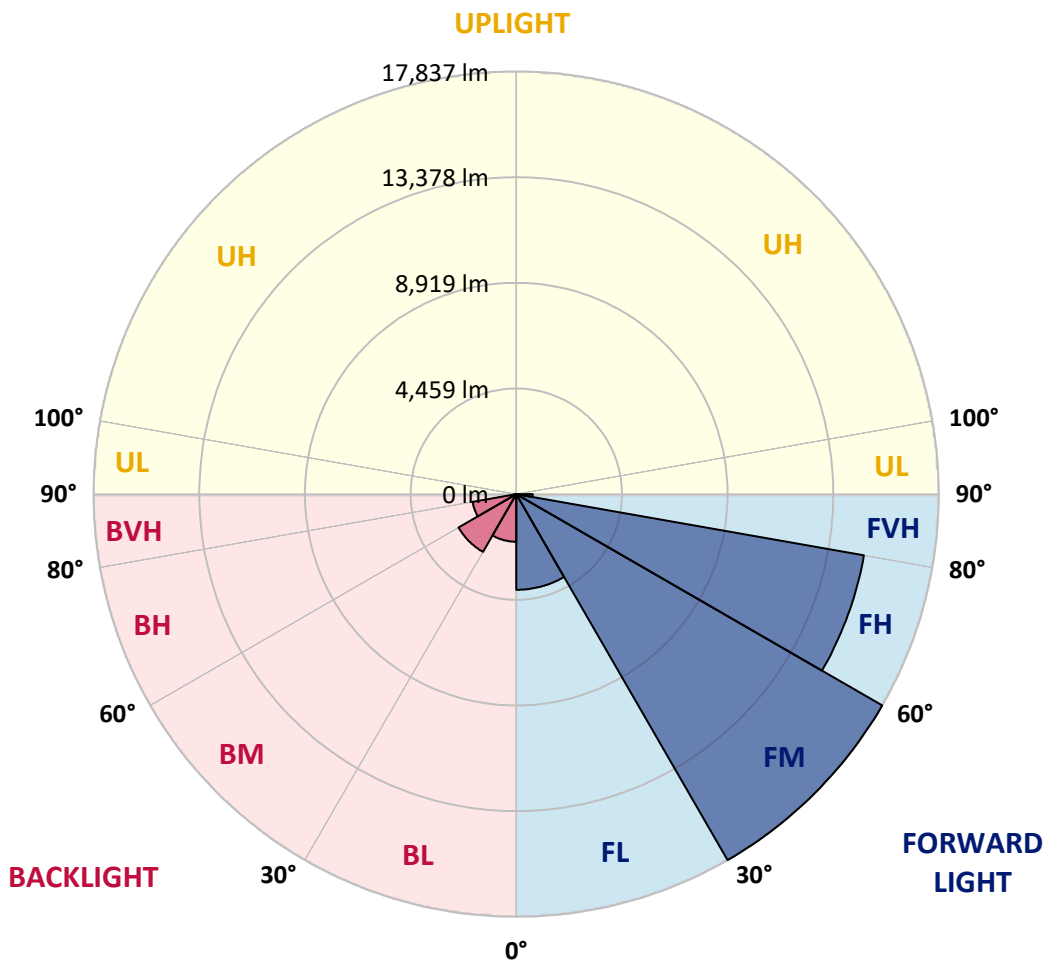


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4038.6	9.1			
FM (30°-60°)	17837.1	40.3			
FH (60°-80°)	14899.5	33.7			G5
FVH (80°-90°)	697.8	1.6			G4/750
BL (0°-30°)	2010.2	4.5	B3/2500		
BM (30°-60°)	2813.2	6.4	B3/5000		
BH (60°-80°)	1871.6	4.2	B3/2500		G3/2500
BVH (80°-90°)	92.7	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°	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1
2.5°	12499.8	12519.7	12519.7	12559.6	12425.1	12489.8	12479.9	12420.1	12440.0	12335.5	12230.9
5°	12146.2	12131.3	12211.0	12220.9	12325.5	12355.4	12380.3	12340.4	12350.4	12121.3	12021.7
7.5°	11239.9	11234.9	11369.3	11483.9	11703.0	11907.2	12041.6	12001.8	12056.6	11912.2	11678.1
10°	10164.2	10278.7	10418.2	10532.7	10936.1	11195.0	11543.6	11578.5	11787.7	11752.8	11329.5
12.5°	9357.4	9407.2	9511.8	9840.5	10209.0	10637.3	11135.3	11180.1	11384.3	11483.9	11115.4
15°	8695.1	8739.9	8874.4	9118.4	9531.7	10039.7	10672.1	10786.7	11195.0	11229.9	10836.5
17.5°	8212.0	8246.9	8336.5	8580.5	8919.2	9571.6	10169.2	10373.3	10911.2	11080.5	10547.6
20°	8022.8	7948.1	7997.9	8152.3	8490.9	8993.9	9765.8	9945.1	10632.3	10966.0	10273.7
22.5°	7938.1	7873.4	7903.3	7893.3	8162.2	8520.8	9332.5	9521.8	10368.4	10831.5	10029.7
25°	8002.9	8002.9	7973.0	7948.1	7978.0	8212.0	8864.4	9158.2	10014.8	10717.0	9780.7
27.5°	8351.5	8217.0	8231.9	8127.4	8097.5	8097.5	8655.2	8829.5	9900.2	10652.2	9576.5
30°	8575.6	8640.3	8645.3	8490.9	8336.5	8057.6	8461.0	8630.3	9805.6	10731.9	9457.0
32.5°	9148.3	9118.4	9033.7	9003.8	8774.8	8461.0	8555.6	8670.2	9750.8	10911.2	9491.9
35°	9721.0	9706.0	9711.0	9696.1	9457.0	8993.9	8809.6	8964.0	9850.4	11224.9	9611.4
37.5°	10313.6	10353.4	10522.7	10522.7	10268.8	9765.8	9521.8	9476.9	10214.0	11737.9	9895.3
40°	10906.2	11005.8	11219.9	11558.6	11200.0	10731.9	10338.5	10268.8	10652.2	12425.1	10577.5
42.5°	11473.9	11638.3	12061.6	12564.5	12445.0	11976.9	11454.0	11374.3	11553.6	13446.0	11528.7
45°	12201.0	12340.4	13007.8	13779.7	13944.0	13530.7	12918.1	12853.4	12843.4	14940.0	12838.4
47.5°	13306.6	13456.0	14123.3	14900.2	15408.1	15472.9	14785.6	14715.9	14476.9	16956.9	14755.7
50°	14691.0	14935.0	15497.8	16404.1	17141.2	17833.4	17639.2	17435.0	16966.9	19302.5	17186.0
52.5°	15701.9	16000.7	16762.7	17923.0	19222.8	20323.4	21020.6	21020.6	19944.9	21877.1	20109.2
55°	15970.9	16150.1	17111.3	18789.5	21015.6	23799.4	25258.6	25149.0	23490.7	24586.3	23510.6
57.5°	14900.2	15134.2	16299.5	18057.5	21956.8	27051.4	29466.7	29491.6	27365.1	27733.6	26867.1
60°	11952.0	12026.7	13401.2	15751.7	21050.5	29670.8	35213.6	35308.2	31772.4	30537.3	28575.2
62.5°	8261.8	8500.9	9536.7	11598.4	17440.0	29377.0	40756.3	41224.4	35303.2	32016.4	28844.2
65°	5438.2	5582.6	6135.4	7390.3	12141.2	25462.7	42479.4	43923.6	38002.4	32101.1	27718.7
67.5°	3944.2	3969.1	4133.4	4780.8	7295.7	18311.5	39536.2	41573.0	39013.3	31393.9	25079.3
70°	3187.2	3207.1	3266.9	3680.2	4711.1	11459.0	32245.5	35437.7	35980.5	28042.4	20198.9
72.5°	2589.6	2614.5	2689.2	3077.6	3884.4	6374.4	23580.3	27469.7	29267.5	20746.7	13426.1
75°	2036.8	2056.7	2236.0	2619.5	3650.3	4377.4	15642.2	19451.9	19695.9	12126.3	6284.8
77.5°	1394.4	1429.3	1648.4	2221.1	3436.2	3829.6	9750.8	12460.0	11180.1	4745.9	2161.3
80°	886.4	936.2	1065.7	1683.2	3037.8	3655.3	6065.6	7440.1	4895.3	1623.5	1040.8
82.5°	522.9	572.7	702.2	1090.6	2385.4	3391.4	4272.8	4656.3	2295.8	831.7	627.5
85°	288.8	323.7	423.3	657.4	1399.4	3012.9	3421.3	3341.6	1314.7	443.2	393.4
87.5°	94.6	109.6	154.4	263.9	577.7	1419.3	2051.8	1927.3	682.3	204.2	154.4
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°	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1	12171.1
2.5°	12161.2	12146.2	11922.1	11752.8	11464.0	11224.9	11130.3	11000.8	10995.8	10901.2	10876.3
5°	11867.3	11713.0	11369.3	11040.7	10527.7	10184.1	9870.4	9651.2	9561.6	9367.4	9322.6
7.5°	11488.9	11284.7	10756.8	10139.3	9536.7	8998.9	8510.8	8022.8	7748.9	7654.3	7549.7
10°	11095.4	10736.9	9955.0	9262.8	8421.2	7594.5	6827.6	6140.3	5766.8	5502.9	5388.4
12.5°	10781.7	10303.6	9307.6	8271.8	7161.2	6055.7	5164.3	4442.2	4018.9	3819.7	3730.0
15°	10428.1	9795.7	8600.5	7290.7	5906.3	4651.3	3779.8	3212.1	3042.8	2948.2	2933.2
17.5°	10054.6	9322.6	7833.5	6324.6	4681.2	3500.9	2938.2	2709.1	2634.4	2594.6	2574.7
20°	9706.0	8899.3	7046.7	5248.9	3665.3	2808.7	2544.8	2425.3	2420.3	2440.2	2435.2
22.5°	9213.0	8346.5	6269.8	4252.9	2928.2	2445.2	2275.9	2246.0	2275.9	2300.8	2310.7
25°	8934.1	7893.3	5403.3	3376.4	2420.3	2171.3	2116.5	2106.5	2151.4	2181.2	2176.3
27.5°	8645.3	7425.2	4596.5	2704.1	2121.5	1977.1	1967.1	1977.1	2021.9	2066.7	2061.7
30°	8421.2	7051.7	3839.6	2260.9	1892.4	1837.6	1827.7	1837.6	1862.5	1867.5	1867.5
32.5°	8236.9	6608.5	3197.2	1962.1	1753.0	1708.1	1718.1	1713.1	1718.1	1723.1	1728.1
35°	8127.4	6344.5	2669.3	1777.9	1638.4	1603.6	1598.6	1583.6	1588.6	1593.6	1588.6
37.5°	8361.4	6215.0	2251.0	1648.4	1558.7	1528.9	1518.9	1508.9	1494.0	1494.0	1494.0
40°	8715.0	6145.3	1997.0	1563.7	1499.0	1464.1	1434.2	1424.3	1424.3	1429.3	1434.2
42.5°	9417.2	6259.9	1822.7	1499.0	1424.3	1384.4	1354.6	1359.5	1374.5	1389.4	1379.5
45°	10433.1	6608.5	1743.0	1449.2	1379.5	1324.7	1304.8	1299.8	1314.7	1339.6	1359.5
47.5°	11762.8	7151.3	1713.1	1404.4	1349.6	1274.9	1250.0	1264.9	1284.8	1319.7	1304.8
50°	13939.0	8371.4	1738.0	1364.5	1304.8	1250.0	1220.1	1205.2	1220.1	1245.0	1255.0
52.5°	16782.6	10587.5	1832.6	1344.6	1274.9	1230.1	1180.3	1155.4	1170.3	1190.2	1190.2
55°	20183.9	13615.3	2096.6	1319.7	1225.1	1200.2	1145.4	1095.6	1105.6	1105.6	1100.6
57.5°	23181.9	15901.1	2410.3	1284.8	1195.2	1160.3	1090.6	1030.9	1020.9	1025.9	1030.9
60°	24526.5	16508.7	2559.7	1274.9	1195.2	1110.5	1015.9	956.2	941.2	931.3	931.3
62.5°	24292.4	15457.9	2255.9	1230.1	1225.1	1070.7	946.2	881.5	861.5	841.6	846.6
65°	22878.1	13958.9	1777.9	1170.3	1230.1	1045.8	876.5	811.7	776.9	752.0	747.0
67.5°	20293.5	11917.1	1409.3	1125.5	1180.3	1001.0	816.7	742.0	712.1	687.2	677.3
70°	15876.2	9342.5	1225.1	1065.7	1060.7	891.4	747.0	682.3	637.4	607.6	607.6
72.5°	10293.7	5906.3	1050.8	946.2	916.3	747.0	647.4	607.6	572.7	547.8	547.8
75°	4661.3	2744.0	846.6	791.8	747.0	597.6	547.8	527.9	498.0	473.1	473.1
77.5°	1673.3	1170.3	632.5	622.5	557.8	463.1	443.2	428.3	408.4	383.5	383.5
80°	936.2	742.0	473.1	453.2	388.4	343.6	318.7	318.7	308.8	293.8	288.8
82.5°	592.6	483.1	348.6	303.8	254.0	229.1	219.1	214.1	209.2	189.2	184.3
85°	373.5	328.7	229.1	179.3	149.4	114.5	109.6	104.6	94.6	84.7	84.7
87.5°	169.3	189.2	89.6	54.8	39.8	24.9	14.9	5.0	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)