

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: P480671

Luminaire Tested: **IFLD-S-SA6E-830-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480671  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-830-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

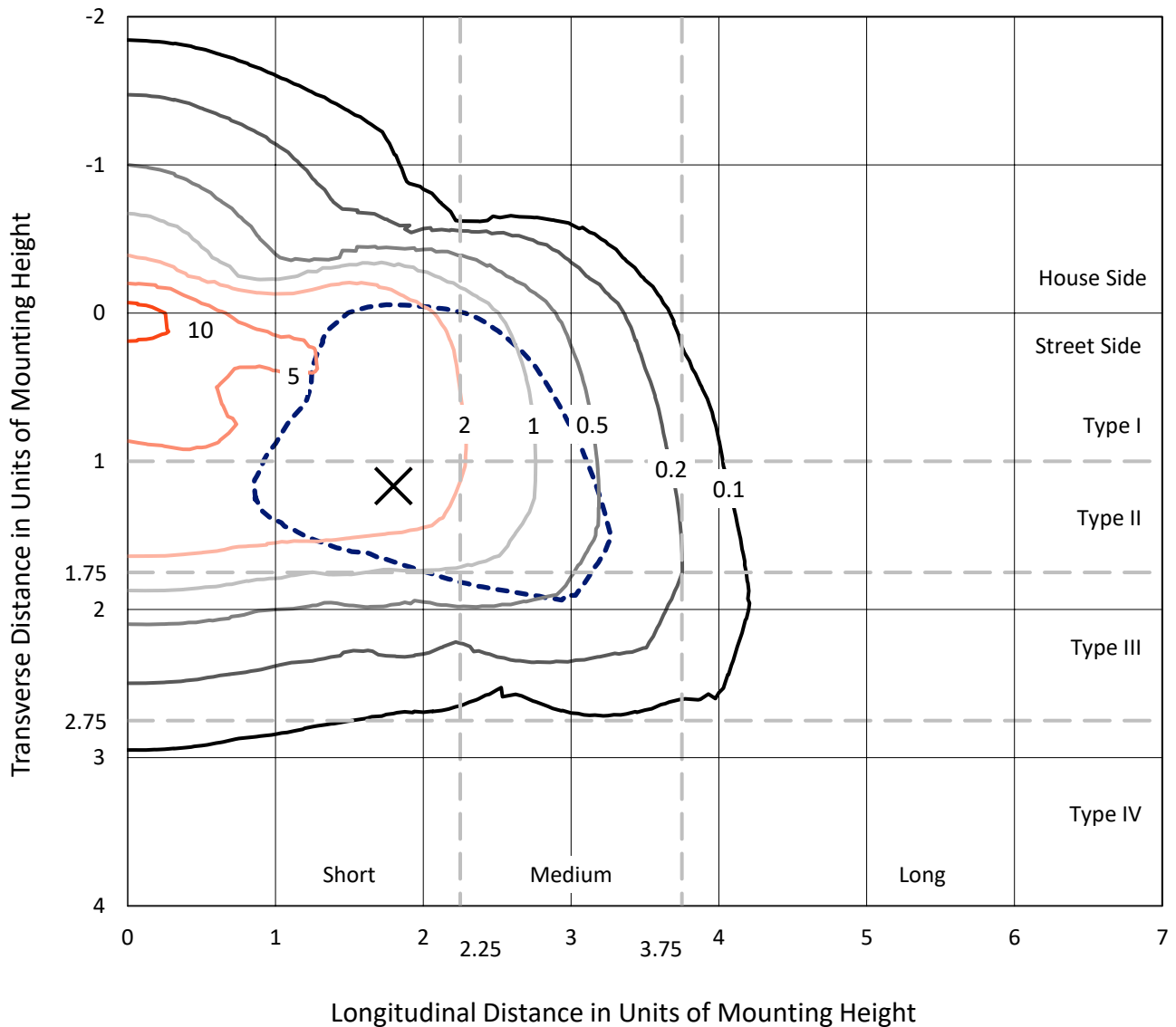
Lumens per Lamp: N/A  
Luminaire Lumens: 41486.5 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2  
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

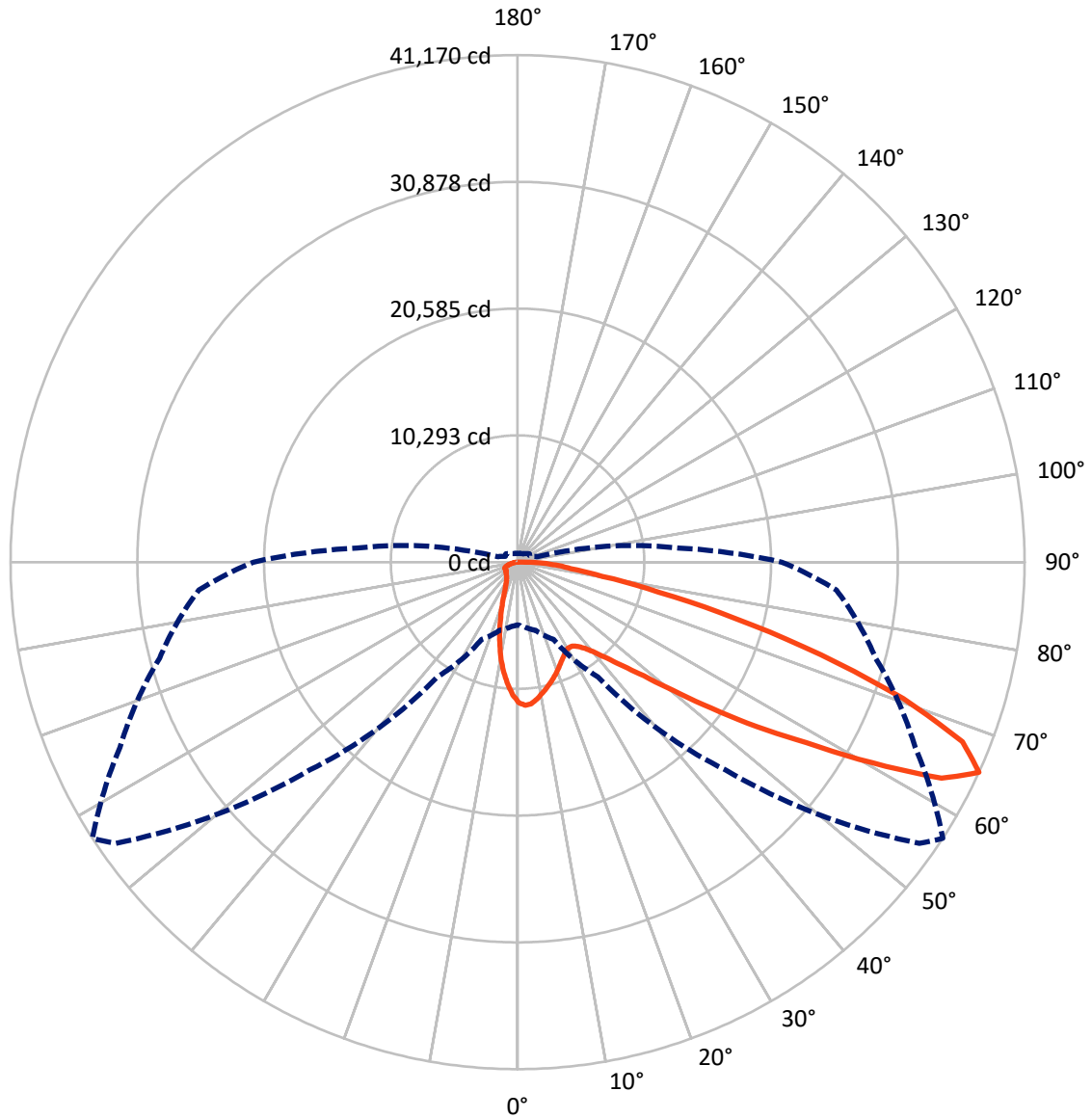
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.7 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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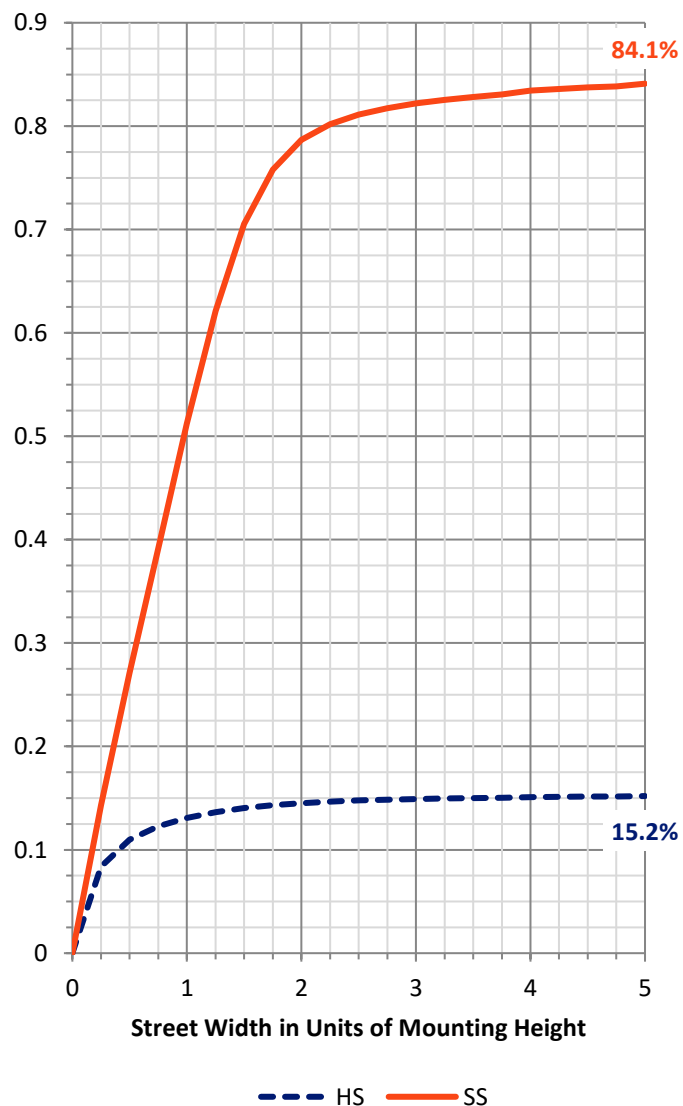
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6362.3	0.0	6362.3
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	35124.2	0.0	35124.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	41486.5	0.0	41486.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	955.3	2.3
10°-20°	2056.1	5.0
20°-30°	2658.3	6.4
30°-40°	3577.2	8.6
40°-50°	5704.0	13.7
50°-60°	10074.7	24.3
60°-70°	11083.5	26.7
70°-80°	4636.4	11.2
80°-90°	741.0	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°	41486.5	100.0
0°-180°	41486.5	100.0

**Coefficient of Utilization**



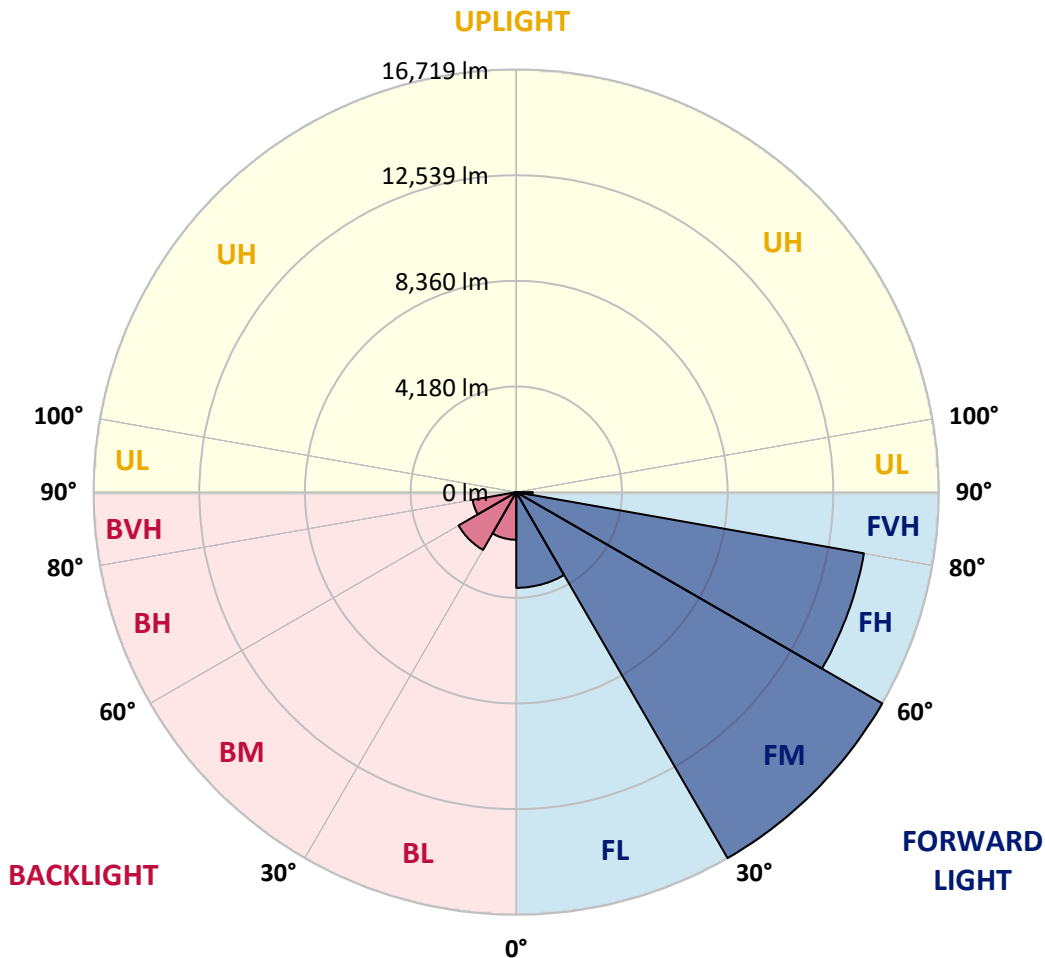
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3785.5	9.1			
FM (30°-60°)	16719.0	40.3			
FH (60°-80°)	13965.6	33.7			G5
FVH (80°-90°)	654.1	1.6			G4/750
BL (0°-30°)	1884.2	4.5	B3/2500		
BM (30°-60°)	2636.9	6.4	B3/5000		
BH (60°-80°)	1754.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	86.9	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°	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2
2.5°	11716.3	11735.0	11735.0	11772.3	11646.3	11707.0	11697.6	11641.6	11660.3	11562.3	11464.2
5°	11384.9	11370.9	11445.6	11454.9	11552.9	11580.9	11604.3	11566.9	11576.3	11361.5	11268.2
7.5°	10535.3	10530.7	10656.7	10764.0	10969.4	11160.8	11286.8	11249.5	11300.9	11165.5	10946.1
10°	9527.1	9634.4	9765.1	9872.5	10250.6	10493.3	10820.1	10852.7	11048.8	11016.1	10619.3
12.5°	8770.9	8817.6	8915.6	9223.7	9569.1	9970.5	10437.3	10479.3	10670.7	10764.0	10418.6
15°	8150.1	8192.1	8318.1	8546.8	8934.3	9410.4	10003.2	10110.6	10493.3	10526.0	10157.2
17.5°	7697.3	7730.0	7814.0	8042.7	8360.1	8971.6	9531.7	9723.1	10227.2	10386.0	9886.5
20°	7519.9	7449.9	7496.6	7641.3	7958.7	8430.1	9153.6	9321.7	9965.8	10278.6	9629.8
22.5°	7440.5	7379.9	7407.9	7398.5	7650.6	7986.7	8747.5	8924.9	9718.5	10152.6	9401.0
25°	7501.2	7501.2	7473.2	7449.9	7477.9	7697.3	8308.8	8584.2	9387.0	10045.2	9167.6
27.5°	7828.0	7701.9	7715.9	7617.9	7589.9	7589.9	8112.7	8276.1	9279.7	9984.5	8976.3
30°	8038.0	8098.7	8103.4	7958.7	7814.0	7552.6	7930.7	8089.4	9191.0	10059.2	8864.2
32.5°	8574.8	8546.8	8467.5	8439.5	8224.7	7930.7	8019.4	8126.7	9139.6	10227.2	8896.9
35°	9111.6	9097.6	9102.3	9088.3	8864.2	8430.1	8257.4	8402.1	9233.0	10521.3	9008.9
37.5°	9667.1	9704.4	9863.2	9863.2	9625.1	9153.6	8924.9	8882.9	9573.7	11002.1	9275.0
40°	10222.6	10315.9	10516.7	10834.1	10498.0	10059.2	9690.4	9625.1	9984.5	11646.3	9914.5
42.5°	10754.7	10908.8	11305.5	11777.0	11664.9	11226.2	10736.0	10661.4	10829.4	12603.2	10806.1
45°	11436.2	11566.9	12192.4	12915.9	13070.0	12682.5	12108.4	12047.7	12038.4	14003.5	12033.7
47.5°	12472.5	12612.5	13238.0	13966.2	14442.3	14503.0	13858.8	13793.5	13569.4	15894.0	13830.8
50°	13770.1	13998.9	14526.3	15375.9	16066.7	16715.6	16533.5	16342.1	15903.3	18092.6	16108.7
52.5°	14717.7	14997.8	15712.0	16799.6	18017.9	19049.5	19703.0	19703.0	18694.7	20505.8	18848.8
55°	14969.8	15137.8	16038.7	17611.8	19698.3	22307.6	23675.3	23572.6	22018.2	23045.1	22036.9
57.5°	13966.2	14185.6	15277.9	16925.6	20580.5	25355.7	27619.6	27643.0	25649.8	25995.2	25183.0
60°	11202.8	11272.8	12561.2	14764.4	19731.0	27811.0	33006.3	33095.0	29780.8	28623.2	26784.1
62.5°	7744.0	7968.0	8938.9	10871.4	16346.8	27535.6	38201.6	38640.4	33090.3	30009.6	27036.2
65°	5097.3	5232.7	5750.8	6927.1	11380.2	23866.7	39816.7	41170.4	35620.3	30088.9	25981.2
67.5°	3696.9	3720.3	3874.3	4481.1	6838.4	17163.7	37058.0	38967.2	36567.9	29426.1	23507.3
70°	2987.4	3006.1	3062.1	3449.5	4415.8	10740.7	30224.3	33216.4	33725.2	26284.6	18932.8
72.5°	2427.3	2450.6	2520.6	2884.7	3640.9	5974.8	22102.2	25747.8	27432.9	19446.2	12584.5
75°	1909.1	1927.8	2095.9	2455.3	3421.5	4103.0	14661.7	18232.6	18461.3	11366.2	5890.8
77.5°	1307.0	1339.7	1545.1	2081.9	3220.8	3589.6	9139.6	11678.9	10479.3	4448.5	2025.8
80°	830.9	877.6	998.9	1577.7	2847.4	3426.2	5685.4	6973.8	4588.5	1521.7	975.6
82.5°	490.1	536.8	658.2	1022.3	2235.9	3178.8	4005.0	4364.4	2151.9	779.5	588.1
85°	270.7	303.4	396.8	616.2	1311.7	2824.0	3206.8	3132.1	1232.3	415.4	368.8
87.5°	88.7	102.7	144.7	247.4	541.5	1330.3	1923.2	1806.5	639.5	191.4	144.7
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°	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2	11408.2
2.5°	11398.9	11384.9	11174.8	11016.1	10745.4	10521.3	10432.6	10311.3	10306.6	10217.9	10194.6
5°	11123.5	10978.8	10656.7	10348.6	9867.8	9545.7	9251.7	9046.3	8962.3	8780.2	8738.2
7.5°	10768.7	10577.3	10082.5	9503.7	8938.9	8434.8	7977.3	7519.9	7263.2	7174.5	7076.5
10°	10400.0	10063.9	9331.0	8682.2	7893.3	7118.5	6399.6	5755.5	5405.4	5158.0	5050.6
12.5°	10105.9	9657.8	8724.2	7753.3	6712.4	5676.1	4840.6	4163.7	3767.0	3580.2	3496.2
15°	9774.5	9181.6	8061.4	6833.7	5536.1	4359.8	3542.9	3010.8	2852.1	2763.4	2749.4
17.5°	9424.4	8738.2	7342.5	5928.2	4387.8	3281.5	2754.0	2539.3	2469.3	2431.9	2413.3
20°	9097.6	8341.4	6605.0	4919.9	3435.5	2632.7	2385.3	2273.2	2268.6	2287.2	2282.6
22.5°	8635.5	7823.3	5876.8	3986.3	2744.7	2291.9	2133.2	2105.2	2133.2	2156.5	2165.9
25°	8374.1	7398.5	5064.6	3164.8	2268.6	2035.2	1983.8	1974.5	2016.5	2044.5	2039.8
27.5°	8103.4	6959.8	4308.4	2534.6	1988.5	1853.1	1843.8	1853.1	1895.1	1937.2	1932.5
30°	7893.3	6609.7	3598.9	2119.2	1773.8	1722.4	1713.1	1722.4	1745.8	1750.4	1750.4
32.5°	7720.6	6194.2	2996.8	1839.1	1643.1	1601.1	1610.4	1605.7	1610.4	1615.1	1619.7
35°	7617.9	5946.8	2502.0	1666.4	1535.7	1503.0	1498.4	1484.4	1489.0	1493.7	1489.0
37.5°	7837.3	5825.5	2109.9	1545.1	1461.0	1433.0	1423.7	1414.4	1400.4	1400.4	1400.4
40°	8168.7	5760.1	1871.8	1465.7	1405.0	1372.3	1344.3	1335.0	1335.0	1339.7	1344.3
42.5°	8826.9	5867.5	1708.4	1405.0	1335.0	1297.7	1269.7	1274.3	1288.3	1302.3	1293.0
45°	9779.1	6194.2	1633.7	1358.3	1293.0	1241.6	1223.0	1218.3	1232.3	1255.7	1274.3
47.5°	11025.4	6703.0	1605.7	1316.3	1265.0	1195.0	1171.6	1185.6	1204.3	1237.0	1223.0
50°	13065.3	7846.6	1629.1	1279.0	1223.0	1171.6	1143.6	1129.6	1143.6	1167.0	1176.3
52.5°	15730.6	9923.8	1717.8	1260.3	1195.0	1153.0	1106.3	1082.9	1096.9	1115.6	1115.6
55°	18918.8	12761.9	1965.2	1237.0	1148.3	1125.0	1073.6	1026.9	1036.3	1036.3	1031.6
57.5°	21728.8	14904.4	2259.2	1204.3	1120.3	1087.6	1022.3	966.2	956.9	961.6	966.2
60°	22989.1	15473.9	2399.3	1195.0	1120.3	1040.9	952.2	896.2	882.2	872.9	872.9
62.5°	22769.7	14489.0	2114.5	1153.0	1148.3	1003.6	886.9	826.2	807.5	788.9	793.5
65°	21444.1	13084.0	1666.4	1096.9	1153.0	980.2	821.5	760.9	728.2	704.8	700.2
67.5°	19021.5	11170.2	1321.0	1054.9	1106.3	938.2	765.5	695.5	667.5	644.2	634.8
70°	14881.1	8756.9	1148.3	998.9	994.3	835.5	700.2	639.5	597.5	569.5	569.5
72.5°	9648.4	5536.1	984.9	886.9	858.9	700.2	606.8	569.5	536.8	513.5	513.5
75°	4369.1	2572.0	793.5	742.2	700.2	560.1	513.5	494.8	466.8	443.4	443.4
77.5°	1568.4	1096.9	592.8	583.5	522.8	434.1	415.4	401.4	382.8	359.4	359.4
80°	877.6	695.5	443.4	424.8	364.1	322.1	298.7	298.7	289.4	275.4	270.7
82.5°	555.5	452.8	326.7	284.7	238.1	214.7	205.4	200.7	196.0	177.4	172.7
85°	350.1	308.1	214.7	168.0	140.0	107.4	102.7	98.0	88.7	79.4	79.4
87.5°	158.7	177.4	84.0	51.3	37.3	23.3	14.0	4.7	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)