

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: P476476

Luminaire Tested: **IFLD-S-SA2C-727-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476476
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

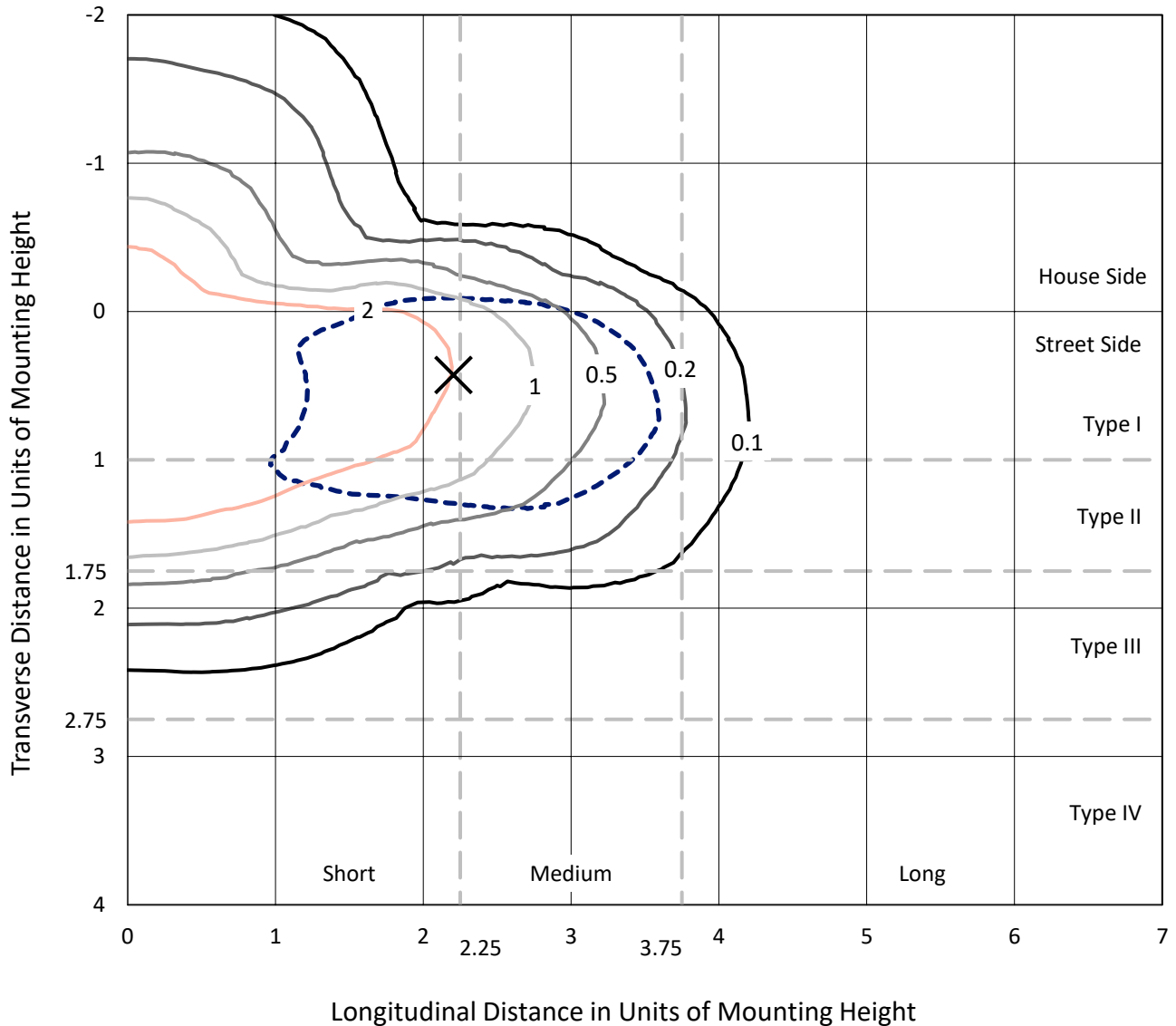
Lumens per Lamp: N/A
Luminaire Lumens: 11872.3 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

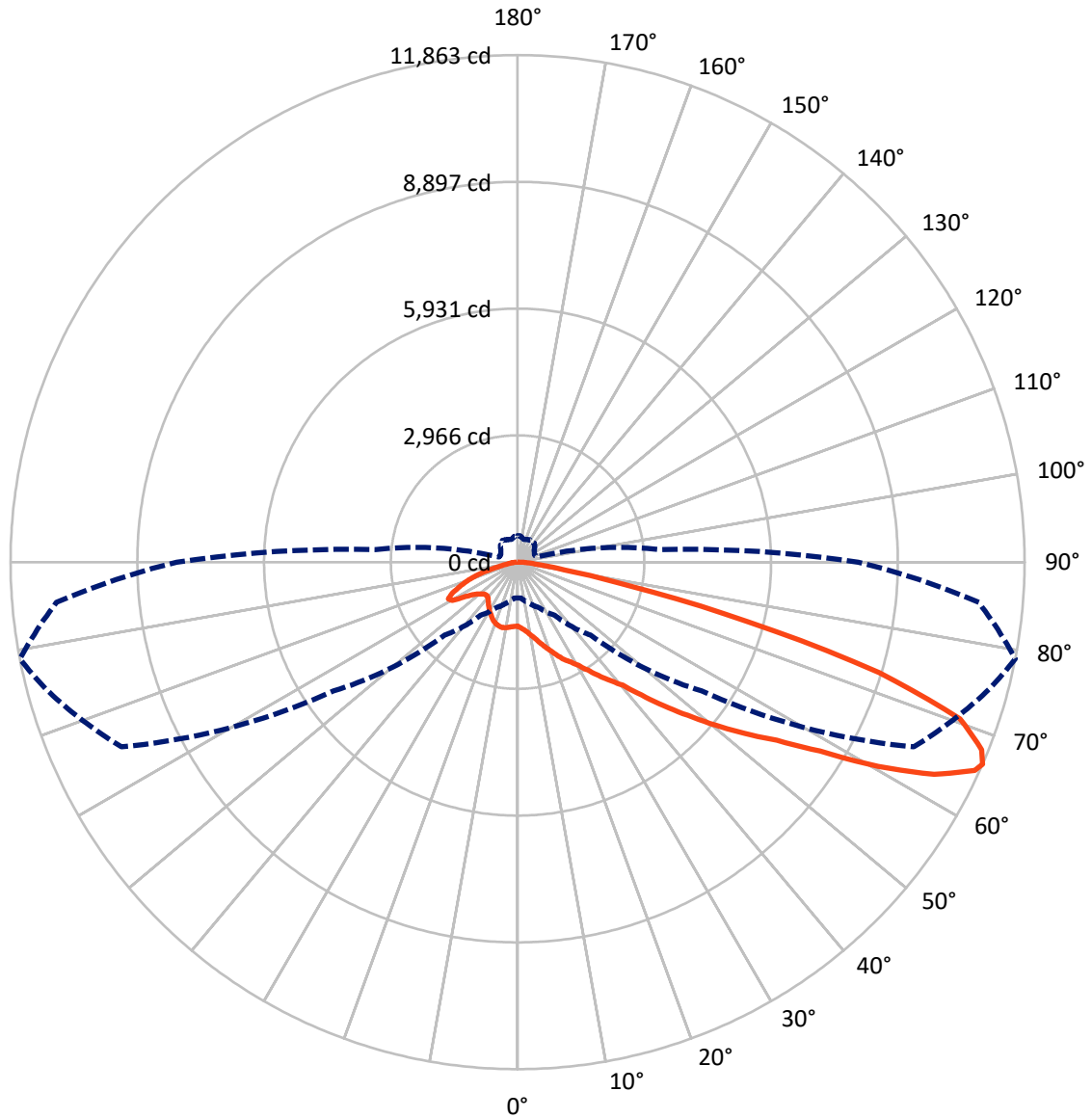
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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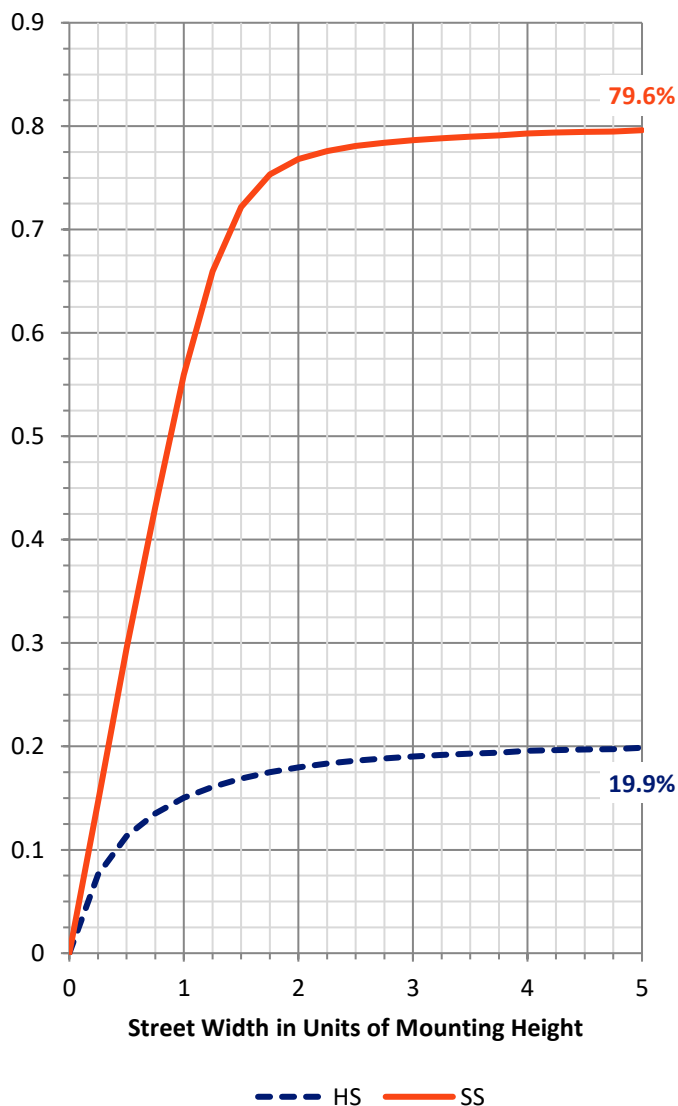
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2397.4	0.0	2397.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	9474.9	0.0	9474.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	11872.3	0.0	11872.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.2
10°-20°	455.2	3.8
20°-30°	781.4	6.6
30°-40°	1207.0	10.2
40°-50°	1933.4	16.3
50°-60°	2886.7	24.3
60°-70°	2966.1	25.0
70°-80°	1314.8	11.1
80°-90°	180.4	1.5
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°	11872.3	100.0
0°-180°	11872.3	100.0

Coefficient of Utilization



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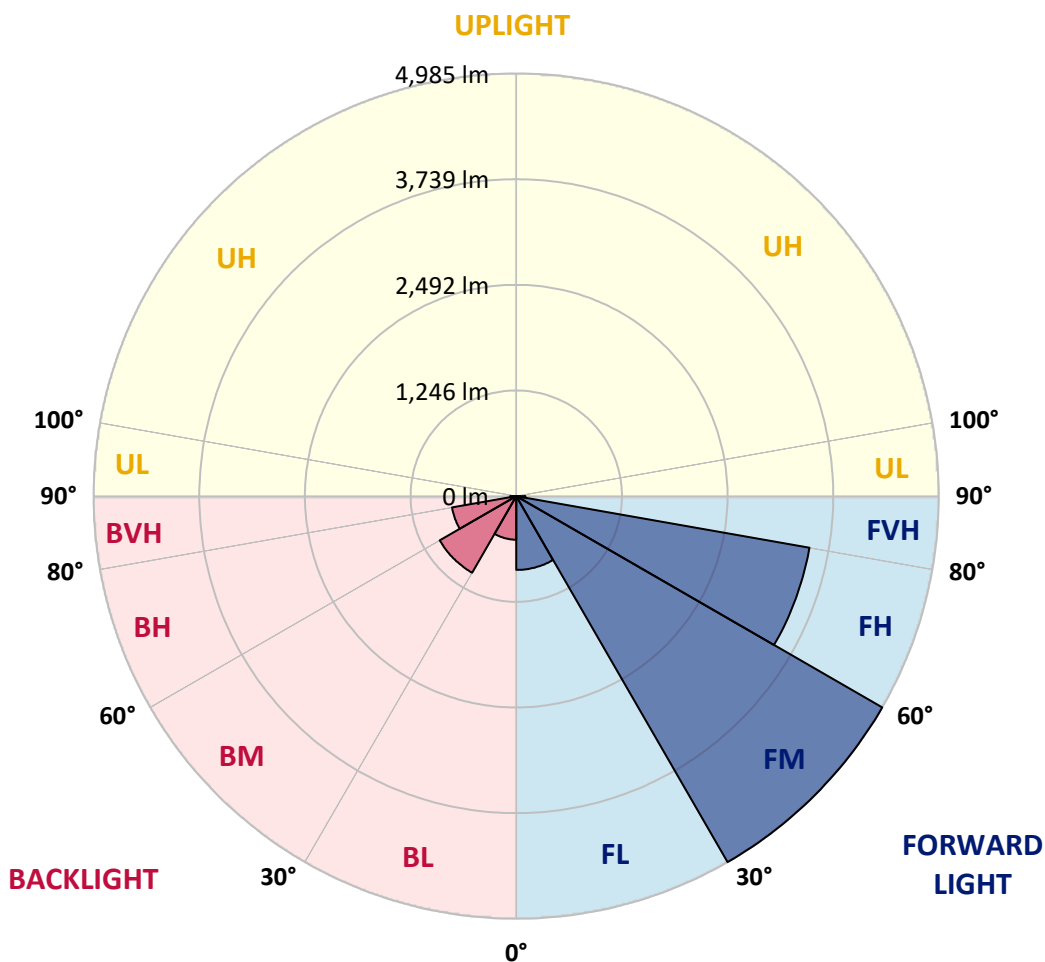
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.3	7.3			
FM (30°-60°)	4984.8	42.0			
FH (60°-80°)	3511.6	29.6			G2/5000
FVH (80°-90°)	108.2	0.9			G2/225
BL (0°-30°)	513.7	4.3	B2/1000		
BM (30°-60°)	1042.3	8.8	B2/2500		
BH (60°-80°)	769.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	72.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1
2.5°	1594.5	1595.8	1595.8	1590.6	1591.9	1595.8	1581.4	1550.1	1550.1	1544.9	1535.7
5°	1692.4	1685.9	1676.7	1678.0	1672.8	1672.8	1657.2	1627.1	1601.0	1590.6	1563.1
7.5°	1705.5	1712.0	1710.7	1726.4	1734.2	1734.2	1742.0	1717.2	1678.0	1653.2	1625.8
10°	1731.6	1714.6	1713.3	1749.9	1761.6	1789.0	1820.4	1807.3	1774.7	1739.4	1702.9
12.5°	1747.3	1757.7	1757.7	1776.0	1803.4	1843.9	1898.7	1923.6	1872.6	1836.1	1779.9
15°	1770.8	1756.4	1798.2	1813.9	1866.1	1894.8	1973.2	2037.2	2003.2	1958.8	1870.0
17.5°	1781.2	1772.1	1795.6	1824.3	1913.1	1956.2	2051.5	2140.3	2111.6	2082.9	1991.5
20°	1834.8	1833.4	1843.9	1867.4	1931.4	2016.3	2135.1	2257.9	2268.3	2216.1	2092.0
22.5°	1965.3	1948.4	1948.4	1939.2	1966.6	2054.1	2214.8	2384.5	2431.5	2370.2	2205.6
25°	2085.5	2109.0	2094.6	2052.8	2042.4	2088.1	2272.2	2519.0	2581.7	2524.3	2359.7
27.5°	2239.6	2247.4	2272.2	2216.1	2144.2	2158.6	2334.9	2594.8	2724.1	2647.0	2447.2
30°	2461.6	2447.2	2442.0	2379.3	2285.3	2265.7	2406.7	2705.8	2910.8	2802.4	2550.4
32.5°	2611.8	2647.0	2645.7	2559.5	2445.9	2402.8	2495.5	2810.2	3110.6	3010.0	2741.0
35°	2909.5	2946.1	2917.3	2790.7	2657.5	2571.3	2623.5	2946.1	3339.1	3260.8	2903.0
37.5°	3289.5	3375.7	3314.3	3080.6	2892.5	2798.5	2801.1	3093.6	3572.9	3508.9	3076.6
40°	3552.0	3668.2	3583.3	3363.9	3164.1	3075.3	3040.1	3268.6	3852.3	3784.4	3348.3
42.5°	3877.1	3973.8	3929.4	3712.6	3478.9	3403.1	3332.6	3561.1	4279.4	4248.0	3696.9
45°	4232.3	4278.0	4263.7	4126.6	3866.7	3840.6	3685.2	3946.4	4782.1	4795.2	4133.1
47.5°	4562.7	4587.5	4615.0	4515.7	4353.8	4376.0	4091.3	4359.0	5270.5	5356.7	4618.9
50°	4647.6	4732.5	4796.5	4863.1	4898.3	5048.5	4539.2	4865.7	5832.0	5999.2	5159.5
52.5°	4561.4	4554.9	4749.5	4958.4	5311.0	5625.7	5149.1	5495.1	6328.3	6658.7	5654.4
55°	4169.7	4156.6	4470.0	4746.9	5435.1	5947.0	6020.1	6333.5	6927.7	7357.3	6324.4
57.5°	3484.1	3403.1	3745.3	4199.7	5166.0	5982.2	6895.0	7578.0	7849.6	8339.3	7346.9
60°	2341.4	2307.5	2635.3	3177.2	4194.5	5482.1	7418.7	9135.9	9149.0	9700.0	8933.5
62.5°	1441.7	1448.2	1658.5	2064.6	2936.9	4346.0	7192.8	10380.4	10383.0	10935.4	10239.4
65°	942.8	946.8	1116.5	1341.1	1834.8	2947.4	5948.3	10478.3	11241.0	11754.2	10837.5
66°	839.7	841.0	987.2	1170.1	1520.0	2412.0	5253.5	10223.7	11434.2	11862.6	10829.6
67.5°	707.8	724.8	842.3	983.3	1185.7	1732.9	4168.4	9487.2	11335.0	11711.1	10584.1
70°	553.7	562.8	655.5	799.2	889.3	1002.9	2477.2	7733.4	10375.2	10985.0	9690.9
72.5°	444.0	451.8	522.4	649.0	722.1	660.8	1349.0	5611.3	8195.7	8846.0	7622.4
75°	374.8	376.1	410.0	510.6	594.2	496.2	718.2	3601.6	5258.8	5561.7	4669.8
77.5°	303.0	308.2	331.7	389.2	478.0	390.5	428.3	2017.6	2640.5	2662.7	2158.6
80°	246.8	249.4	263.8	283.4	364.3	288.6	289.9	984.6	1132.2	1106.1	877.5
82.5°	194.6	197.2	214.2	210.2	267.7	206.3	180.2	474.0	521.0	510.6	403.5
85°	109.7	109.7	168.5	168.5	169.8	130.6	109.7	223.3	275.5	257.3	189.4
87.5°	35.3	36.6	50.9	53.5	84.9	58.8	53.5	83.6	130.6	114.9	67.9
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°	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1
2.5°	1530.5	1509.6	1500.5	1470.4	1462.6	1443.0	1433.9	1422.1	1418.2	1401.2	1416.9
5°	1542.2	1535.7	1499.1	1461.3	1432.5	1419.5	1399.9	1373.8	1371.2	1347.7	1345.1
7.5°	1591.9	1569.7	1505.7	1465.2	1407.7	1375.1	1332.0	1318.9	1302.0	1294.1	1311.1
10°	1668.9	1612.8	1517.4	1415.6	1345.1	1305.9	1274.5	1265.4	1266.7	1261.5	1253.6
12.5°	1723.8	1670.2	1497.8	1373.8	1282.4	1244.5	1241.9	1251.0	1265.4	1258.9	1268.0
15°	1802.1	1701.6	1483.5	1304.6	1231.4	1221.0	1219.7	1247.1	1245.8	1245.8	1244.5
17.5°	1875.2	1732.9	1431.2	1244.5	1177.9	1185.7	1194.9	1193.6	1206.6	1211.9	1221.0
20°	1968.0	1769.5	1358.1	1184.4	1137.4	1134.8	1133.5	1134.8	1147.9	1155.7	1149.2
22.5°	2048.9	1777.3	1296.7	1127.0	1089.1	1078.7	1061.7	1078.7	1072.1	1074.7	1082.6
25°	2119.4	1778.6	1209.2	1083.9	1040.8	1017.3	1004.2	1002.9	991.2	989.9	989.9
27.5°	2178.2	1734.2	1132.2	1023.8	983.3	961.1	959.8	945.5	915.4	895.8	898.4
30°	2223.9	1700.2	1078.7	971.6	932.4	928.5	916.7	884.1	844.9	820.1	820.1
32.5°	2304.9	1632.3	1005.5	918.0	898.4	893.2	865.8	837.1	800.5	777.0	773.1
35°	2364.9	1569.7	957.2	872.3	863.2	852.7	829.2	797.9	787.4	782.2	786.1
37.5°	2432.8	1499.1	898.4	833.1	842.3	822.7	795.3	780.9	817.5	808.3	812.3
40°	2541.2	1449.5	841.0	809.6	818.8	796.6	761.3	756.1	801.8	769.2	761.3
42.5°	2739.7	1448.2	805.7	774.4	780.9	763.9	732.6	730.0	748.3	709.1	697.3
45°	2986.5	1493.9	779.6	748.3	743.0	740.4	730.0	718.2	702.6	651.6	638.6
47.5°	3281.7	1568.4	774.4	709.1	715.6	737.8	724.8	694.7	654.2	621.6	615.1
50°	3639.5	1722.4	761.3	680.4	692.1	727.4	716.9	675.1	638.6	617.7	613.8
52.5°	4035.2	1917.0	744.3	636.0	662.1	718.2	723.5	684.3	630.7	612.5	609.8
55°	4501.4	2204.3	724.8	587.6	626.8	709.1	723.5	658.2	620.3	620.3	617.7
57.5°	5422.0	2721.4	684.3	543.2	595.5	692.1	702.6	659.5	621.6	621.6	616.4
60°	6772.3	3528.5	607.2	509.3	565.4	668.6	686.9	639.9	607.2	615.1	613.8
62.5°	7828.7	3774.0	541.9	476.6	535.4	625.5	666.0	619.0	590.3	619.0	621.6
65°	8054.6	3525.9	475.3	441.4	493.6	583.7	636.0	588.9	565.4	621.6	624.2
66°	7973.7	3332.6	451.8	430.9	475.3	562.8	617.7	578.5	552.4	619.0	620.3
67.5°	7613.3	3042.7	425.7	408.7	450.5	532.8	596.8	564.1	531.5	611.1	599.4
70°	6829.7	2580.4	381.3	369.6	415.3	483.2	548.5	527.6	498.8	562.8	541.9
72.5°	5260.1	2062.0	334.3	335.6	374.8	432.2	500.2	485.8	461.0	493.6	480.6
75°	3203.3	1317.6	291.2	293.8	326.5	383.9	454.4	444.0	414.0	432.2	425.7
77.5°	1419.5	652.9	245.5	250.7	276.8	338.2	395.7	378.7	347.4	351.3	348.7
80°	551.1	309.5	199.8	206.3	223.3	270.3	327.8	312.1	284.7	279.5	276.8
82.5°	265.1	172.4	154.1	156.7	163.2	215.5	282.1	262.5	225.9	202.4	202.4
85°	133.2	107.1	108.4	99.2	108.4	146.3	190.7	159.3	131.9	117.5	120.1
87.5°	53.5	53.5	53.5	45.7	48.3	69.2	88.8	60.1	54.8	32.6	32.6
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)