

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: P476709

Luminaire Tested: **IFLD-S-SA2B-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476709
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

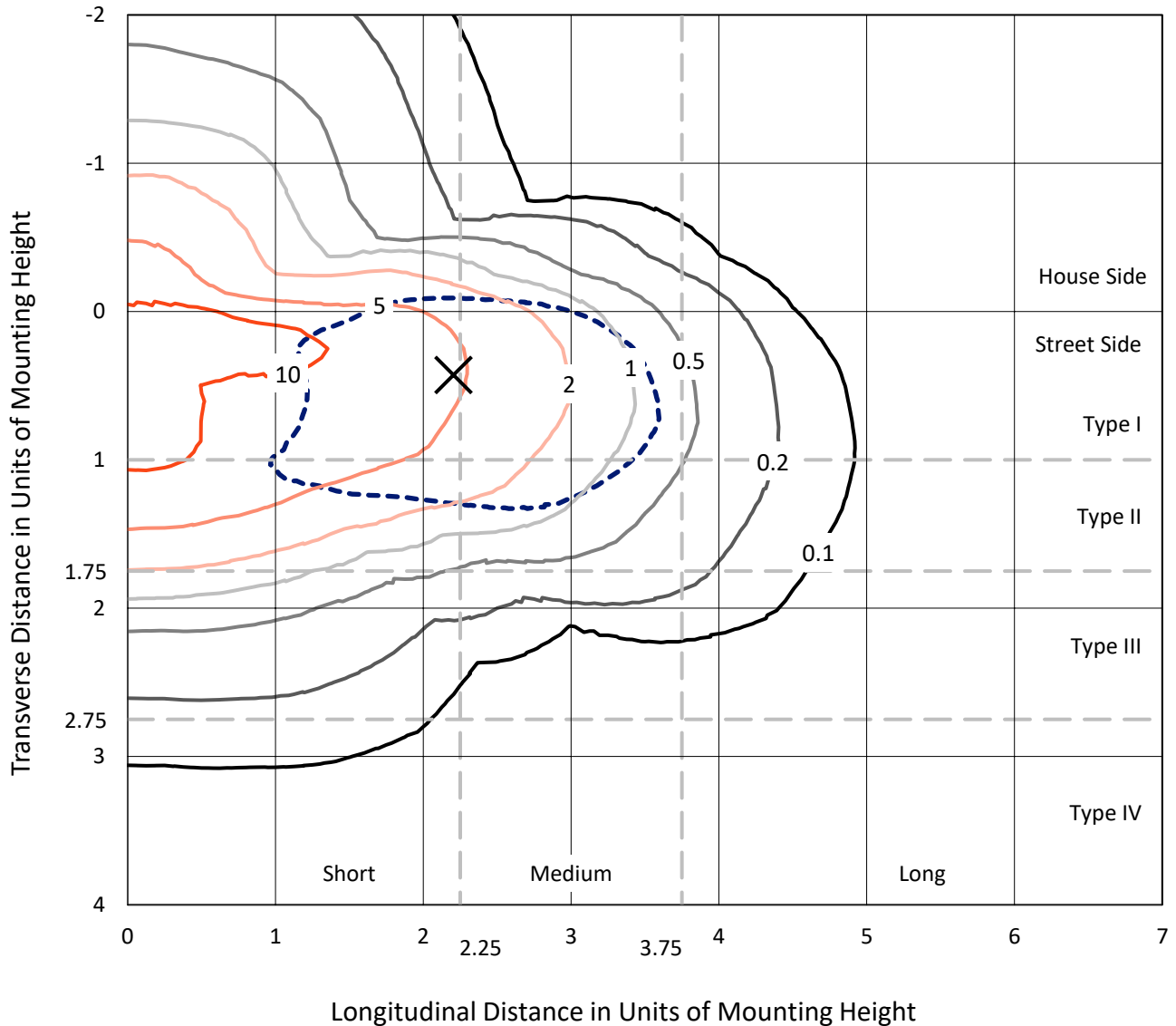
Lumens per Lamp: N/A
Luminaire Lumens: 8383.1 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
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

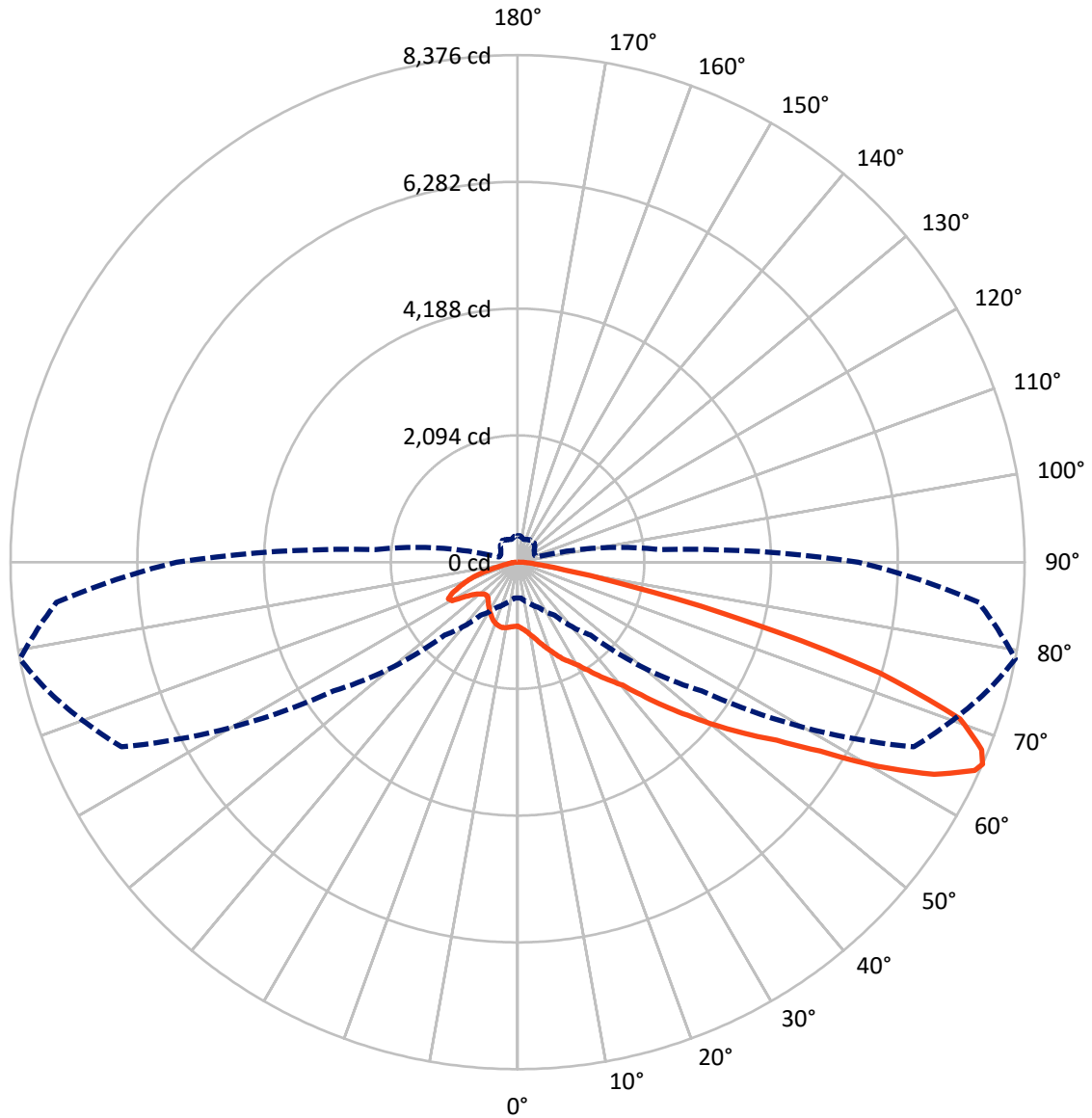
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 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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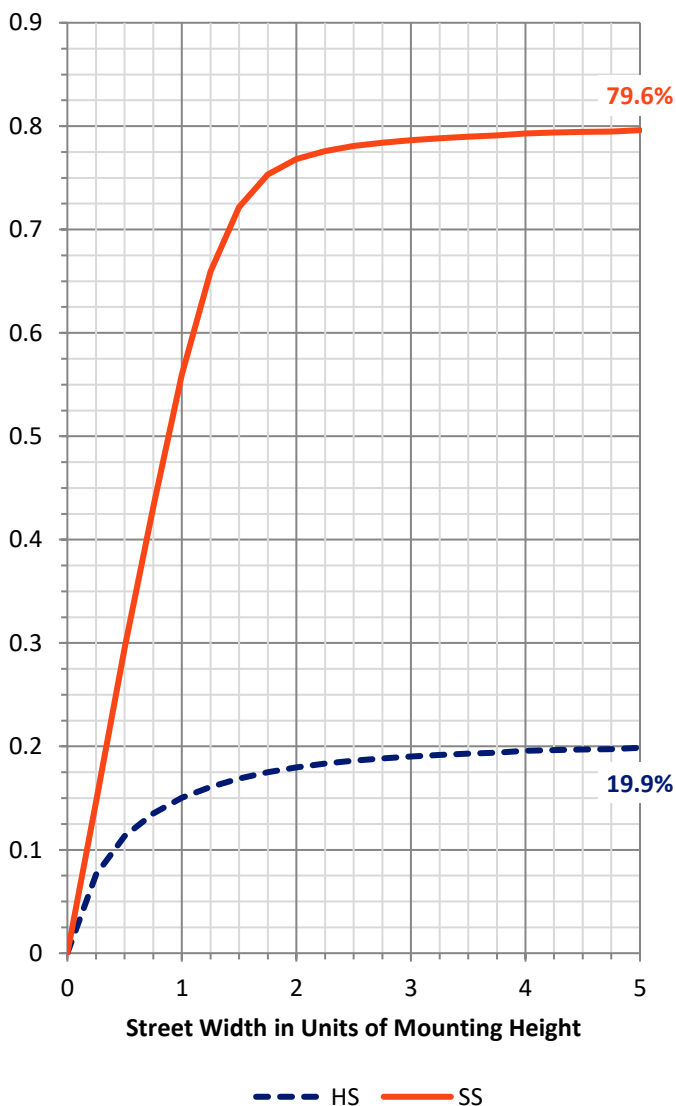
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1692.8	0.0	1692.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	6690.2	0.0	6690.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	8383.1	0.0	8383.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	1.2
10°-20°	321.4	3.8
20°-30°	551.7	6.6
30°-40°	852.3	10.2
40°-50°	1365.2	16.3
50°-60°	2038.3	24.3
60°-70°	2094.3	25.0
70°-80°	928.4	11.1
80°-90°	127.4	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°	8383.1	100.0
0°-180°	8383.1	100.0

Coefficient of Utilization



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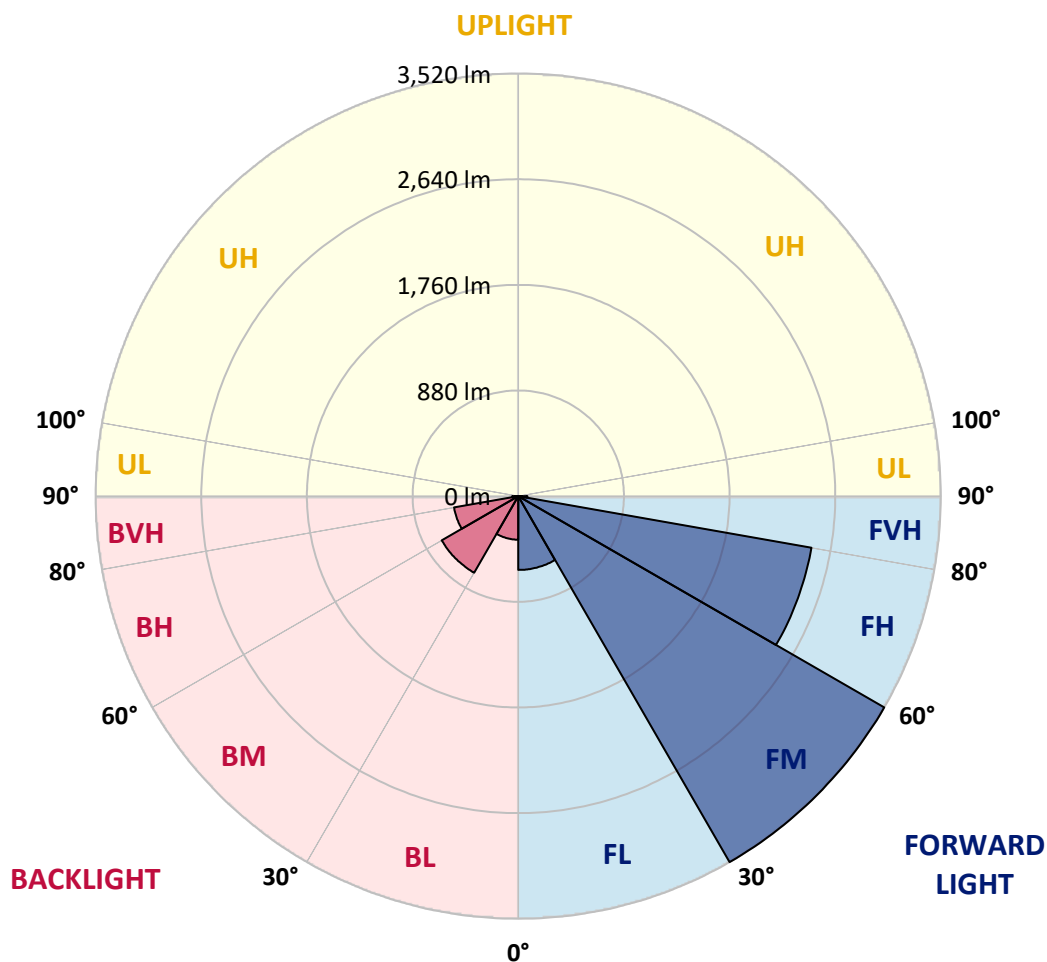
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.5	7.3			
FM (30°-60°)	3519.8	42.0			
FH (60°-80°)	2479.5	29.6			G2/5000
FVH (80°-90°)	76.4	0.9			G1/100
BL (0°-30°)	362.7	4.3	B1/500		
BM (30°-60°)	736.0	8.8	B1/1000		
BH (60°-80°)	543.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	51.0	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°	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5
2.5°	1125.9	1126.8	1126.8	1123.1	1124.0	1126.8	1116.6	1094.5	1094.5	1090.8	1084.4
5°	1195.0	1190.4	1184.0	1184.9	1181.2	1181.2	1170.1	1148.9	1130.5	1123.1	1103.7
7.5°	1204.2	1208.8	1207.9	1219.0	1224.5	1224.5	1230.1	1212.5	1184.9	1167.4	1148.0
10°	1222.7	1210.7	1209.8	1235.6	1243.9	1263.3	1285.4	1276.2	1253.1	1228.2	1202.4
12.5°	1233.7	1241.1	1241.1	1254.0	1273.4	1302.0	1340.7	1358.2	1322.3	1296.4	1256.8
15°	1250.3	1240.2	1269.7	1280.8	1317.7	1337.9	1393.3	1438.4	1414.5	1383.1	1320.4
17.5°	1257.7	1251.3	1267.9	1288.1	1350.8	1381.3	1448.6	1511.3	1491.0	1470.7	1406.2
20°	1295.5	1294.6	1302.0	1318.6	1363.8	1423.7	1507.6	1594.3	1601.7	1564.8	1477.2
22.5°	1387.7	1375.7	1375.7	1369.3	1388.7	1450.4	1563.9	1683.7	1716.9	1673.6	1557.4
25°	1472.6	1489.2	1479.0	1449.5	1442.1	1474.4	1604.4	1778.7	1823.0	1782.4	1666.2
27.5°	1581.4	1586.9	1604.4	1564.8	1514.1	1524.2	1648.7	1832.2	1923.5	1869.1	1728.0
30°	1738.1	1728.0	1724.3	1680.0	1613.6	1599.8	1699.4	1910.6	2055.3	1978.8	1800.8
32.5°	1844.2	1869.1	1868.1	1807.3	1727.1	1696.6	1762.1	1984.3	2196.4	2125.4	1935.4
35°	2054.4	2080.2	2059.9	1970.5	1876.4	1815.6	1852.5	2080.2	2357.8	2302.4	2049.8
37.5°	2322.7	2383.6	2340.2	2175.2	2042.4	1976.0	1977.9	2184.4	2522.8	2477.6	2172.4
40°	2508.1	2590.1	2530.2	2375.3	2234.2	2171.5	2146.6	2308.0	2720.1	2672.2	2364.2
42.5°	2737.7	2805.9	2774.5	2621.5	2456.4	2402.9	2353.2	2514.5	3021.7	2999.5	2610.4
45°	2988.5	3020.7	3010.6	2913.8	2730.3	2711.8	2602.1	2786.5	3376.7	3385.9	2918.4
47.5°	3221.8	3239.3	3258.6	3188.6	3074.2	3089.9	2888.9	3077.9	3721.5	3782.4	3261.4
50°	3281.7	3341.6	3386.8	3433.8	3458.7	3564.8	3205.2	3435.7	4118.0	4236.0	3643.1
52.5°	3220.8	3216.2	3353.6	3501.1	3750.1	3972.3	3635.8	3880.1	4468.4	4701.7	3992.6
55°	2944.2	2935.0	3156.3	3351.8	3837.7	4199.2	4250.8	4472.1	4891.6	5195.0	4465.6
57.5°	2460.1	2402.9	2644.5	2965.4	3647.8	4224.1	4868.6	5350.8	5542.6	5888.4	5187.6
60°	1653.3	1629.3	1860.8	2243.4	2961.7	3870.9	5238.3	6450.9	6460.1	6849.2	6308.0
62.5°	1018.0	1022.6	1171.0	1457.8	2073.8	3068.7	5078.8	7329.6	7331.5	7721.5	7230.0
65°	665.7	668.5	788.4	947.0	1295.5	2081.1	4200.1	7398.8	7937.3	8299.7	7652.4
66°	592.9	593.8	697.1	826.2	1073.3	1703.1	3709.5	7219.0	8073.7	8376.2	7646.8
67.5°	499.8	511.8	594.7	694.3	837.3	1223.6	2943.3	6698.9	8003.7	8269.2	7473.5
70°	391.0	397.4	462.9	564.3	627.9	708.2	1749.2	5460.6	7325.9	7756.5	6842.8
72.5°	313.5	319.0	368.8	458.3	509.9	466.6	952.5	3962.2	5787.0	6246.2	5382.2
75°	264.6	265.6	289.5	360.5	419.5	350.4	507.1	2543.1	3713.2	3927.1	3297.4
77.5°	213.9	217.6	234.2	274.8	337.5	275.7	302.4	1424.6	1864.4	1880.1	1524.2
80°	174.3	176.1	186.3	200.1	257.3	203.8	204.7	695.2	799.4	781.0	619.6
82.5°	137.4	139.2	151.2	148.5	189.0	145.7	127.2	334.7	367.9	360.5	284.9
85°	77.5	77.5	118.9	118.9	119.9	92.2	77.5	157.7	194.6	181.7	133.7
87.5°	24.9	25.8	36.0	37.8	59.9	41.5	37.8	59.0	92.2	81.1	47.9
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°	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5
2.5°	1080.7	1065.9	1059.5	1038.3	1032.7	1018.9	1012.4	1004.1	1001.4	989.4	1000.5
5°	1089.0	1084.4	1058.5	1031.8	1011.5	1002.3	988.5	970.0	968.2	951.6	949.7
7.5°	1124.0	1108.3	1063.2	1034.6	994.0	971.0	940.5	931.3	919.3	913.8	925.8
10°	1178.4	1138.8	1071.5	999.5	949.7	922.1	900.0	893.5	894.4	890.7	885.2
12.5°	1217.1	1179.3	1057.6	970.0	905.5	878.7	876.9	883.4	893.5	888.9	895.3
15°	1272.5	1201.5	1047.5	921.2	869.5	862.1	861.2	880.6	879.7	879.7	878.7
17.5°	1324.1	1223.6	1010.6	878.7	831.7	837.3	843.7	842.8	852.0	855.7	862.1
20°	1389.6	1249.4	959.0	836.3	803.1	801.3	800.4	801.3	810.5	816.0	811.4
22.5°	1446.7	1255.0	915.6	795.8	769.0	761.6	749.7	761.6	757.0	758.9	764.4
25°	1496.5	1255.9	853.8	765.3	734.9	718.3	709.1	708.2	699.9	698.9	698.9
27.5°	1538.0	1224.5	799.4	722.9	694.3	678.7	677.7	667.6	646.4	632.5	634.4
30°	1570.3	1200.6	761.6	686.0	658.4	655.6	647.3	624.2	596.6	579.1	579.1
32.5°	1627.5	1152.6	710.0	648.2	634.4	630.7	611.3	591.1	565.2	548.6	545.9
35°	1669.9	1108.3	675.9	616.0	609.5	602.1	585.5	563.4	556.0	552.3	555.1
37.5°	1717.8	1058.5	634.4	588.3	594.7	580.9	561.5	551.4	577.2	570.8	573.5
40°	1794.4	1023.5	593.8	571.7	578.1	562.5	537.6	533.9	566.2	543.1	537.6
42.5°	1934.5	1022.6	568.9	546.8	551.4	539.4	517.3	515.4	528.4	500.7	492.4
45°	2108.8	1054.9	550.5	528.4	524.7	522.8	515.4	507.1	496.1	460.1	450.9
47.5°	2317.2	1107.4	546.8	500.7	505.3	521.0	511.8	490.5	462.0	438.9	434.3
50°	2569.8	1216.2	537.6	480.4	488.7	513.6	506.2	476.7	450.9	436.1	433.4
52.5°	2849.2	1353.6	525.6	449.1	467.5	507.1	510.8	483.2	445.4	432.5	430.6
55°	3178.4	1556.5	511.8	414.9	442.6	500.7	510.8	464.7	438.0	438.0	436.1
57.5°	3828.5	1921.6	483.2	383.6	420.5	488.7	496.1	465.7	438.9	438.9	435.2
60°	4781.9	2491.5	428.8	359.6	399.3	472.1	485.0	451.8	428.8	434.3	433.4
62.5°	5527.9	2664.8	382.7	336.6	378.1	441.7	470.3	437.1	416.8	437.1	438.9
65°	5687.4	2489.6	335.6	311.7	348.5	412.2	449.1	415.9	399.3	438.9	440.8
66°	5630.2	2353.2	319.0	304.3	335.6	397.4	436.1	408.5	390.0	437.1	438.0
67.5°	5375.7	2148.4	300.6	288.6	318.1	376.2	421.4	398.3	375.3	431.5	423.2
70°	4822.5	1822.0	269.2	260.9	293.2	341.2	387.3	372.5	352.2	397.4	382.7
72.5°	3714.1	1456.0	236.1	237.0	264.6	305.2	353.2	343.0	325.5	348.5	339.3
75°	2261.9	930.4	205.6	207.5	230.5	271.1	320.9	313.5	292.3	305.2	300.6
77.5°	1002.3	461.0	173.4	177.0	195.5	238.8	279.4	267.4	245.3	248.0	246.2
80°	389.1	218.5	141.1	145.7	157.7	190.9	231.4	220.4	201.0	197.3	195.5
82.5°	187.2	121.7	108.8	110.6	115.3	152.1	199.2	185.3	159.5	142.9	142.9
85°	94.1	75.6	76.5	70.1	76.5	103.3	134.6	112.5	93.1	83.0	84.8
87.5°	37.8	37.8	37.8	32.3	34.1	48.9	62.7	42.4	38.7	23.1	23.1
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)