

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: P481193

Luminaire Tested: **IFLD-S-SA2A-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481193
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

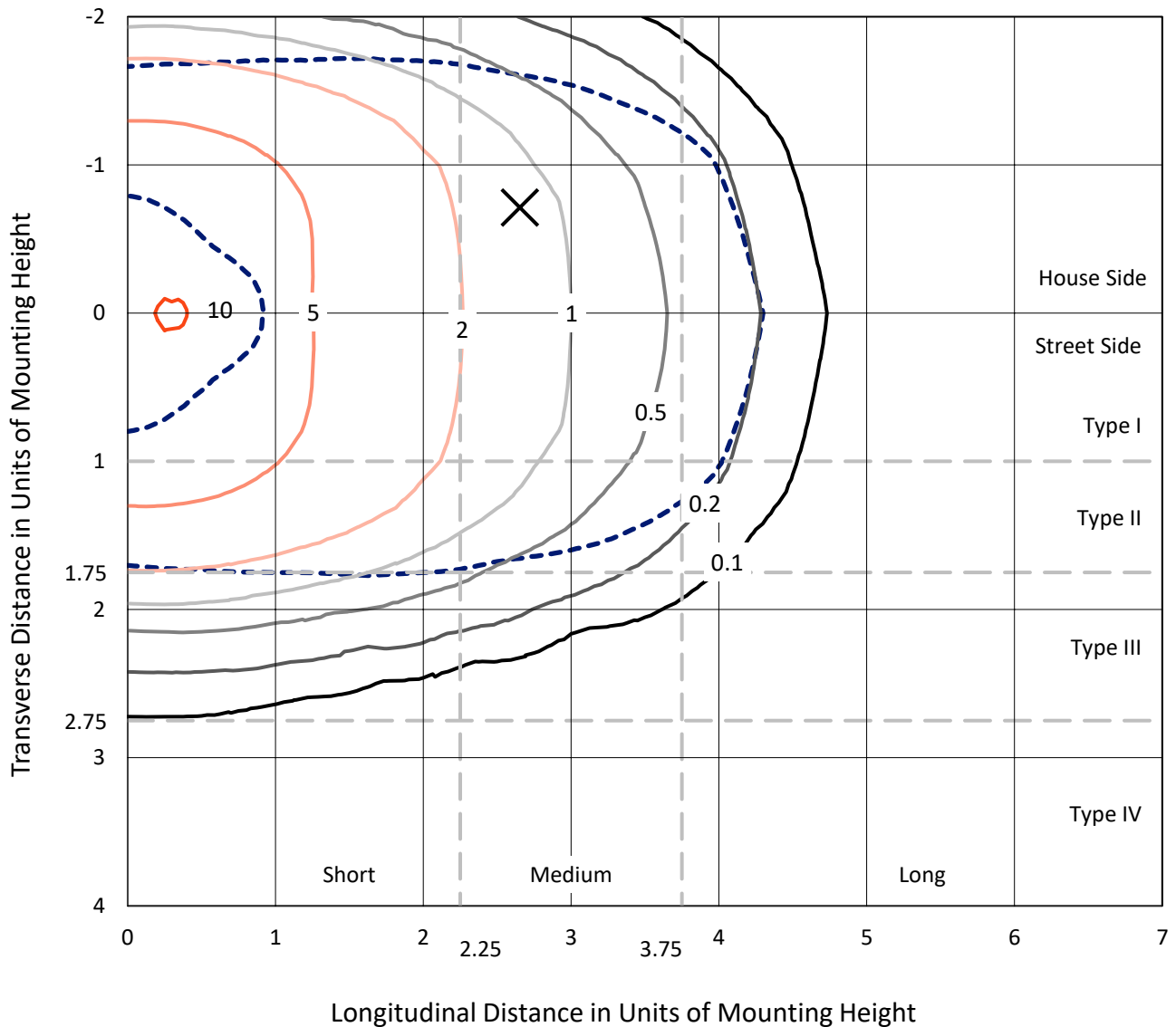
Lumens per Lamp: N/A
Luminaire Lumens: 8659.3 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 63.8
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

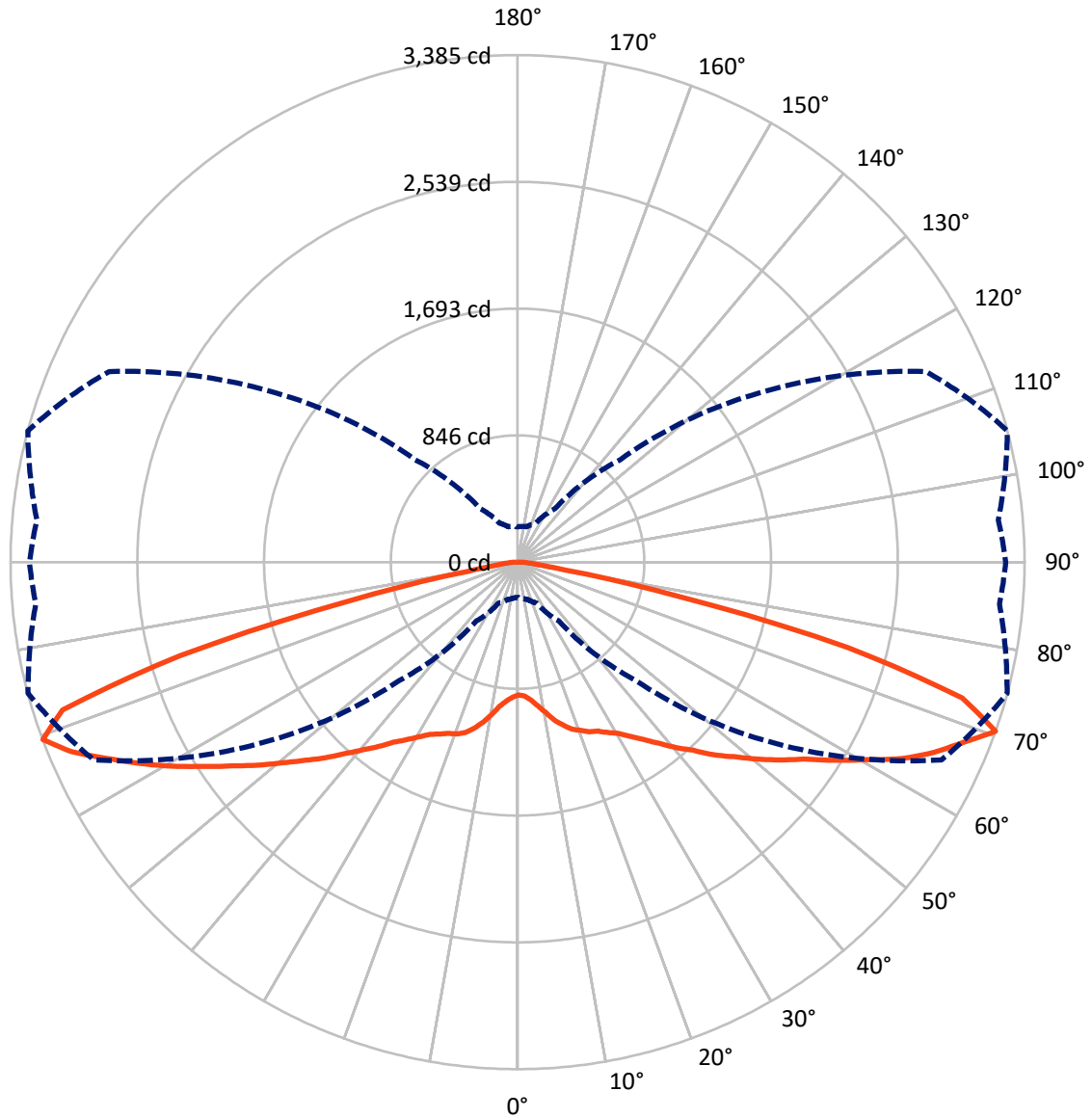
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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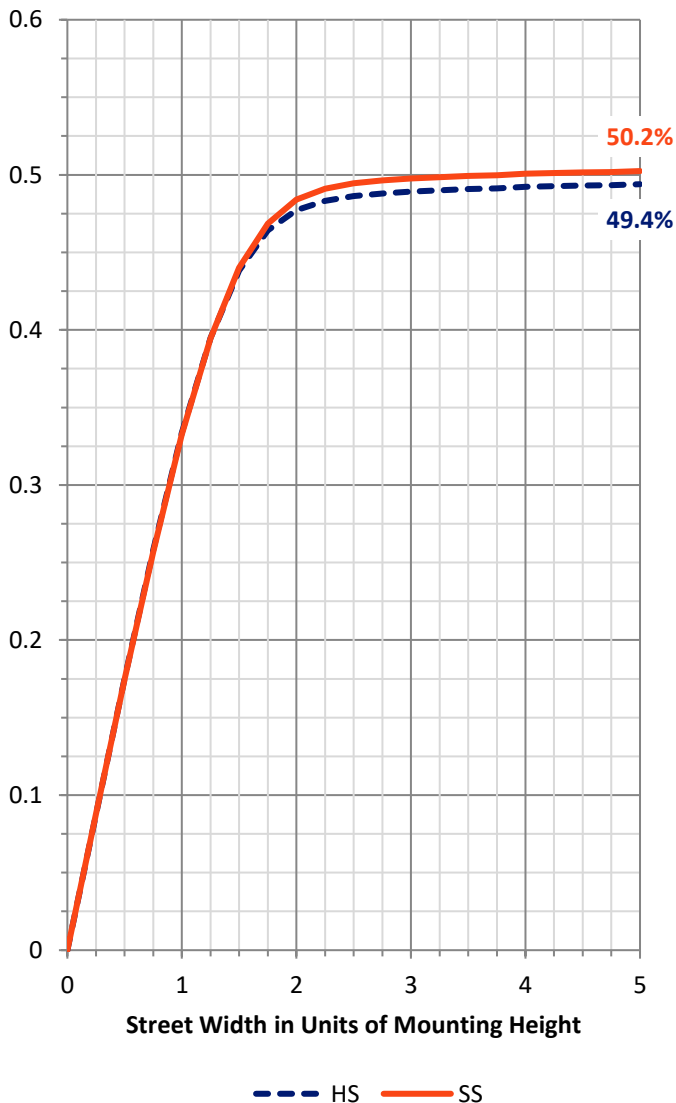
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4298.8	0.0	4298.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	4360.4	0.0	4360.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	8659.3	0.0	8659.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.0
10°-20°	300.5	3.5
20°-30°	581.9	6.7
30°-40°	984.2	11.4
40°-50°	1570.1	18.1
50°-60°	2149.1	24.8
60°-70°	2025.7	23.4
70°-80°	892.4	10.3
80°-90°	67.1	0.8
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°	8659.3	100.0
0°-180°	8659.3	100.0



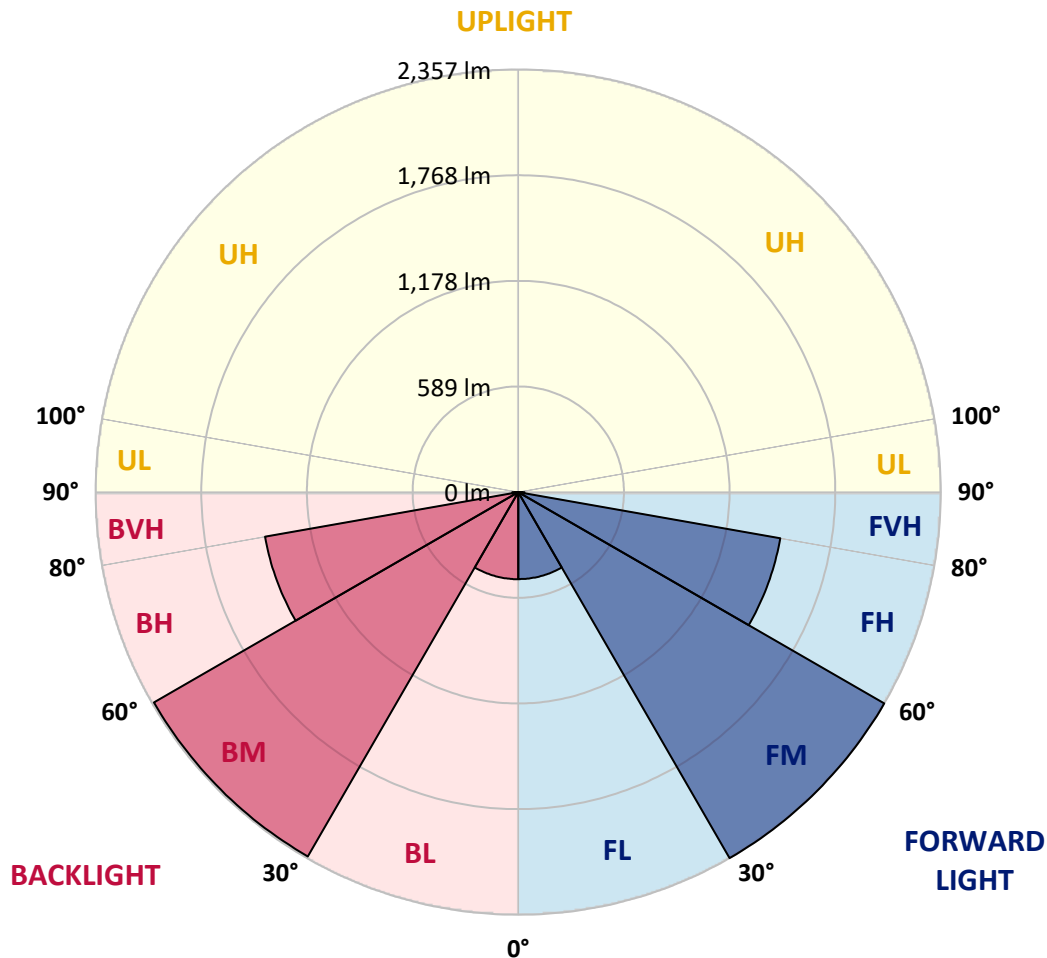
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.1	5.6			
FM (30°-60°)	2357.0	27.2			
FH (60°-80°)	1484.1	17.1			G1/1800
FVH (80°-90°)	34.3	0.4			G1/100
BL (0°-30°)	485.6	5.6	B1/500		
BM (30°-60°)	2346.4	27.1	B2/2500		
BH (60°-80°)	1434.0	16.6	B3/2500		G3/2500
BVH (80°-90°)	32.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7
2.5°	881.1	881.1	880.2	884.8	889.5	891.4	895.1	896.0	901.6	897.0	906.3
5°	878.3	877.4	884.8	896.0	896.0	908.2	915.6	925.9	928.7	934.3	936.2
7.5°	897.9	896.0	892.3	904.4	914.7	933.4	943.6	961.4	967.9	975.4	983.8
10°	910.0	910.0	906.3	927.8	937.1	962.3	984.7	1002.4	1027.6	1036.0	1037.0
12.5°	911.9	914.7	925.9	953.9	980.0	1012.7	1029.5	1063.1	1088.3	1104.2	1109.8
15°	939.9	934.3	946.4	984.7	1023.0	1051.9	1081.8	1106.0	1142.4	1163.0	1176.0
17.5°	965.1	959.5	981.9	1027.6	1066.8	1111.6	1137.8	1163.9	1190.0	1208.7	1209.6
20°	1005.2	1009.9	1029.5	1079.0	1130.3	1169.5	1199.4	1204.0	1217.1	1244.2	1239.5
22.5°	1054.7	1051.0	1092.0	1146.2	1202.2	1234.9	1251.7	1239.5	1233.0	1261.9	1268.5
25°	1104.2	1115.4	1152.7	1203.1	1270.3	1314.2	1318.9	1285.3	1261.0	1271.3	1268.5
27.5°	1179.8	1181.6	1220.9	1280.6	1348.7	1387.0	1384.2	1336.6	1289.9	1290.9	1292.7
30°	1276.9	1267.5	1310.5	1364.6	1431.8	1466.3	1471.0	1402.9	1340.3	1321.7	1326.3
32.5°	1370.2	1381.4	1418.7	1480.3	1529.8	1549.4	1539.1	1478.5	1397.3	1372.1	1374.9
35°	1489.7	1487.8	1539.1	1591.4	1628.7	1632.5	1624.1	1535.4	1458.9	1426.2	1413.1
37.5°	1617.5	1634.3	1667.9	1710.9	1750.1	1751.9	1706.2	1635.3	1541.0	1486.9	1502.7
40°	1760.3	1779.0	1803.3	1865.8	1894.7	1864.9	1818.2	1722.1	1624.1	1576.5	1583.9
42.5°	1886.3	1894.7	1944.2	2017.9	2032.0	2018.9	1949.8	1833.1	1719.3	1667.0	1670.7
45°	2002.1	2013.3	2077.7	2144.0	2176.6	2154.2	2074.0	1962.9	1830.3	1785.5	1767.8
47.5°	2108.5	2130.9	2193.4	2261.6	2312.0	2313.8	2214.9	2080.5	1940.5	1881.7	1880.7
50°	2180.4	2213.0	2274.6	2352.1	2425.8	2454.8	2355.8	2211.2	2060.9	1998.3	1991.8
52.5°	2219.6	2253.2	2314.8	2435.2	2517.3	2562.1	2515.4	2333.4	2201.8	2136.5	2126.2
55°	2172.0	2194.4	2295.2	2464.1	2591.0	2664.8	2634.0	2502.4	2341.8	2288.6	2298.0
57.5°	1969.4	2016.1	2140.2	2351.2	2589.2	2770.2	2767.4	2662.0	2503.3	2452.9	2454.8
60°	1621.3	1660.5	1813.5	2108.5	2484.6	2813.2	2912.1	2816.9	2684.4	2625.6	2623.7
62.5°	1144.3	1193.8	1371.1	1693.1	2176.6	2753.4	3078.3	3012.0	2861.7	2818.8	2834.7
65°	640.3	670.2	834.4	1125.6	1658.6	2424.9	3108.1	3214.5	3041.9	2976.5	2979.3
67.5°	342.5	353.7	430.3	590.8	1014.6	1869.5	2806.6	3331.2	3236.9	3124.0	3106.3
70°	235.2	238.9	258.5	302.4	479.8	1118.2	2116.9	3123.1	3383.5	3229.5	3259.3
72.5°	198.8	196.9	201.6	206.3	251.1	500.3	1242.3	2403.4	3194.0	3136.1	3124.9
75°	172.7	171.7	173.6	168.9	174.5	220.3	549.8	1498.1	2338.1	2609.7	2651.7
77.5°	142.8	143.7	144.7	140.0	138.1	145.6	221.2	658.0	1150.8	1270.3	1370.2
80°	108.3	110.1	117.6	112.9	105.5	106.4	130.7	220.3	330.4	299.6	308.9
82.5°	73.7	74.7	90.5	84.9	79.3	71.9	84.0	113.9	128.8	98.0	85.9
85°	52.3	51.3	58.8	54.1	50.4	36.4	50.4	64.4	77.5	48.5	43.9
87.5°	12.1	12.1	24.3	19.6	18.7	14.9	19.6	25.2	33.6	21.5	19.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7	886.7
2.5°	903.5	895.1	895.1	893.2	885.8	883.9	877.4	879.2	874.6	869.9
5°	935.2	924.0	924.0	908.2	893.2	891.4	883.9	883.9	876.4	878.3
7.5°	979.1	968.8	952.0	938.0	917.5	909.1	895.1	893.2	891.4	887.6
10°	1031.4	1018.3	1001.5	972.6	955.8	939.9	925.9	906.3	901.6	902.6
12.5°	1102.3	1081.8	1045.4	1020.2	998.7	978.2	957.6	928.7	922.2	925.0
15°	1152.7	1126.6	1090.2	1080.8	1051.9	1026.7	993.1	960.4	949.2	946.4
17.5°	1193.8	1172.3	1150.8	1136.8	1113.5	1082.7	1036.0	998.7	973.5	970.7
20°	1227.4	1199.4	1194.7	1203.1	1174.2	1153.6	1096.7	1051.0	1017.4	1003.4
22.5°	1247.9	1230.2	1243.3	1250.7	1248.9	1214.3	1155.5	1102.3	1060.3	1047.2
25°	1270.3	1249.8	1296.5	1321.7	1328.2	1271.3	1225.5	1155.5	1114.4	1106.0
27.5°	1281.5	1289.0	1343.1	1396.3	1391.7	1347.8	1286.2	1223.7	1191.0	1176.0
30°	1314.2	1326.3	1408.5	1468.2	1469.1	1426.2	1379.5	1308.6	1272.2	1265.7
32.5°	1373.0	1387.9	1475.7	1539.1	1550.3	1517.7	1471.0	1427.1	1389.8	1374.9
35°	1417.8	1456.1	1555.0	1612.9	1642.7	1623.1	1597.0	1551.3	1512.1	1499.0
37.5°	1482.2	1535.4	1630.6	1709.0	1742.6	1740.7	1721.1	1671.7	1639.0	1627.8
40°	1574.6	1627.8	1714.6	1818.2	1880.7	1877.9	1866.7	1828.5	1779.9	1774.3
42.5°	1672.6	1716.5	1829.4	1947.9	2037.6	2028.2	1998.3	1953.5	1919.9	1912.5
45°	1767.8	1835.9	1940.5	2092.6	2159.8	2183.2	2147.7	2071.2	2032.9	2028.2
47.5°	1887.3	1941.4	2072.1	2208.4	2308.2	2312.0	2251.3	2180.4	2110.4	2125.3
50°	1993.7	2065.6	2198.1	2347.4	2466.9	2424.0	2346.5	2257.8	2207.4	2187.8
52.5°	2107.6	2195.3	2349.3	2501.4	2567.7	2524.8	2398.8	2299.8	2223.3	2214.9
55°	2273.7	2319.4	2521.0	2637.7	2659.2	2568.6	2382.9	2242.9	2144.0	2119.7
57.5°	2442.6	2495.8	2672.2	2773.0	2750.6	2544.4	2280.2	2063.7	1933.9	1899.4
60°	2613.4	2678.8	2827.2	2919.6	2803.8	2377.3	1989.9	1710.9	1559.7	1528.9
62.5°	2803.8	2888.8	3021.3	3054.0	2646.1	2046.9	1579.3	1234.9	1081.8	1030.4
65°	2972.8	3059.6	3222.9	3026.0	2311.0	1527.0	1021.1	705.6	592.7	551.6
67.5°	3111.9	3209.9	3290.1	2677.8	1692.2	894.2	532.0	371.5	329.5	314.5
70°	3222.0	3385.3	3010.1	1968.5	967.0	435.9	287.5	244.5	238.9	235.2
72.5°	3125.9	3104.4	2247.6	1135.9	423.8	239.9	208.1	201.6	200.7	201.6
75°	2556.5	2280.2	1344.1	493.8	212.8	173.6	172.7	169.9	174.5	174.5
77.5°	1240.5	1084.6	561.9	211.9	140.0	136.3	140.9	140.9	140.9	140.9
80°	287.5	318.3	200.7	128.8	101.7	101.7	112.0	112.9	108.3	106.4
82.5°	98.0	130.7	110.1	81.2	67.2	75.6	84.9	86.8	71.9	72.8
85°	48.5	76.5	59.7	46.7	34.5	46.7	55.1	57.9	49.5	47.6
87.5°	22.4	33.6	22.4	15.9	12.1	16.8	15.9	13.1	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)