

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: P853445

Luminaire Tested: **CRTK-N-50-727-U-T2R**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-111-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-N-50-727-U-T2R
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5848 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

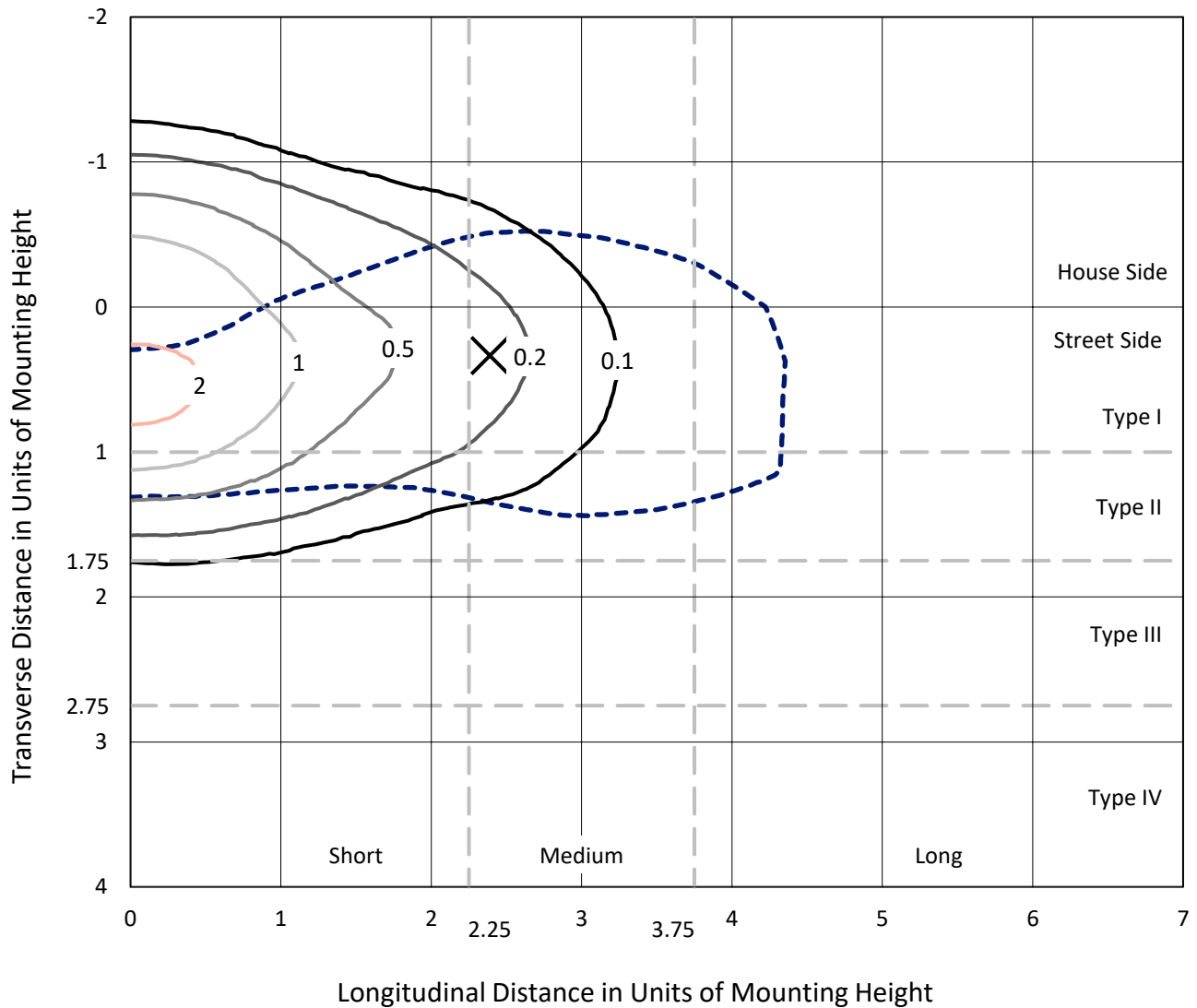
Input Watts (W): 47.7
Input Voltage (V): 120.0
Input Current (Ain): 0.398
Voltage Rise (V): NR
Power Factor: 0.9969
Total Harmonic Distortion (THDi): 6.56%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P853445
 CATALOG NUMBER: CRTK-N-50-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

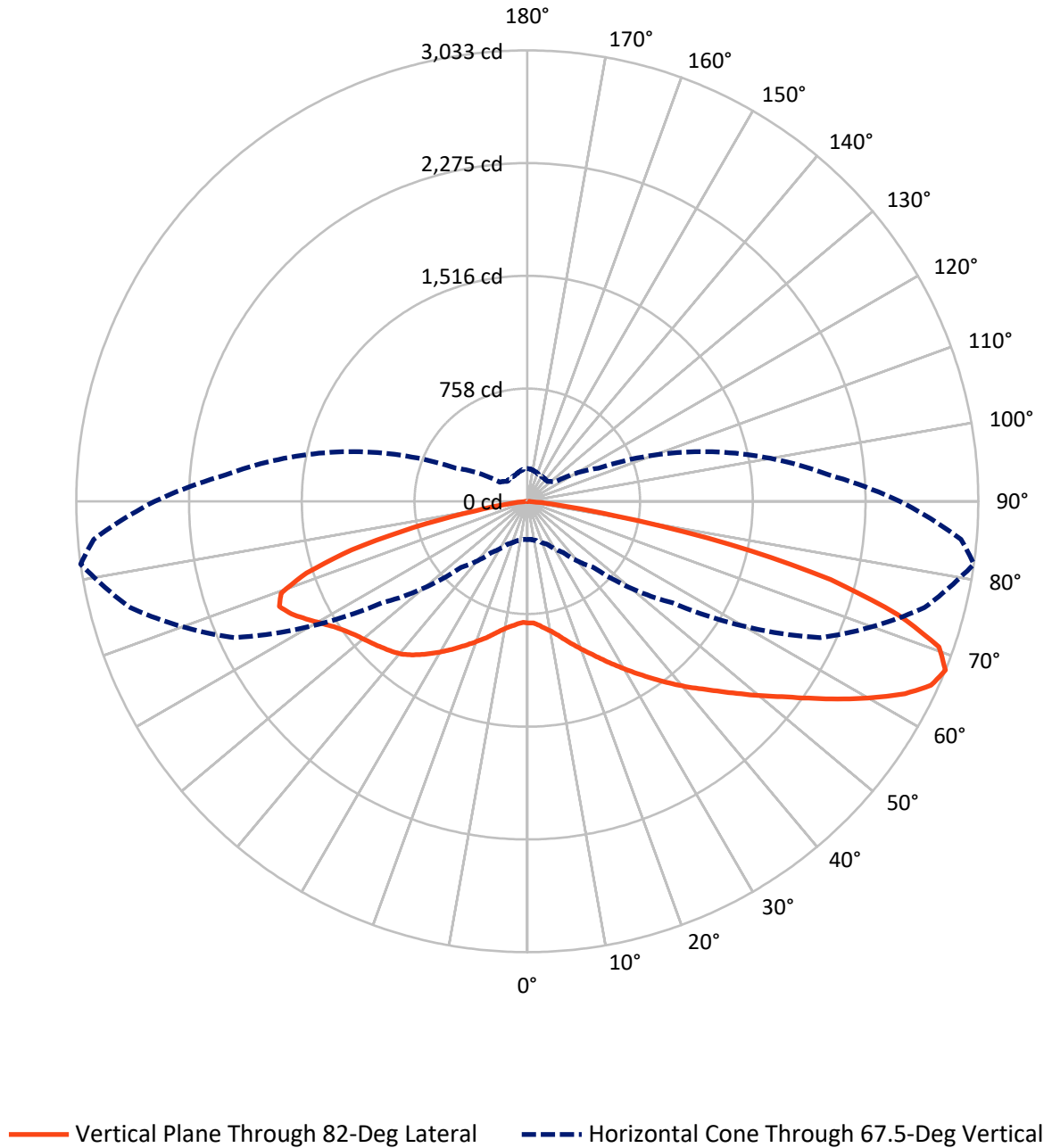
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P853445
CATALOG NUMBER: CRTK-N-50-727-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P853445
 CATALOG NUMBER: CRTK-N-50-727-U-T2R

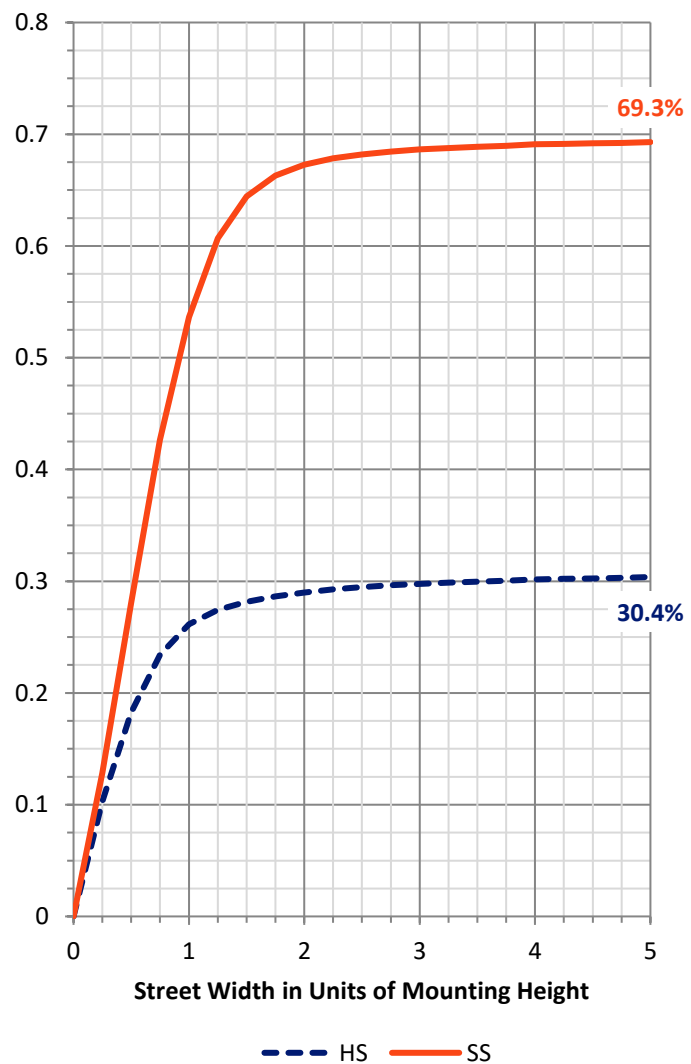
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1792.4	0.0	1792.4
	% Fixture	30.6	0.0	30.6
Street Side	Lumens	4055.6	0.0	4055.6
	% Fixture	69.4	0.0	69.4
Total	Lumens	5848.0	0.0	5848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	1.4
10°-20°	305.0	5.2
20°-30°	613.4	10.5
30°-40°	966.8	16.5
40°-50°	1184.6	20.3
50°-60°	1127.8	19.3
60°-70°	946.3	16.2
70°-80°	560.2	9.6
80°-90°	59.2	1.0
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°	5848.0	100.0
0°-180°	5848.0	100.0

Coefficient of Utilization

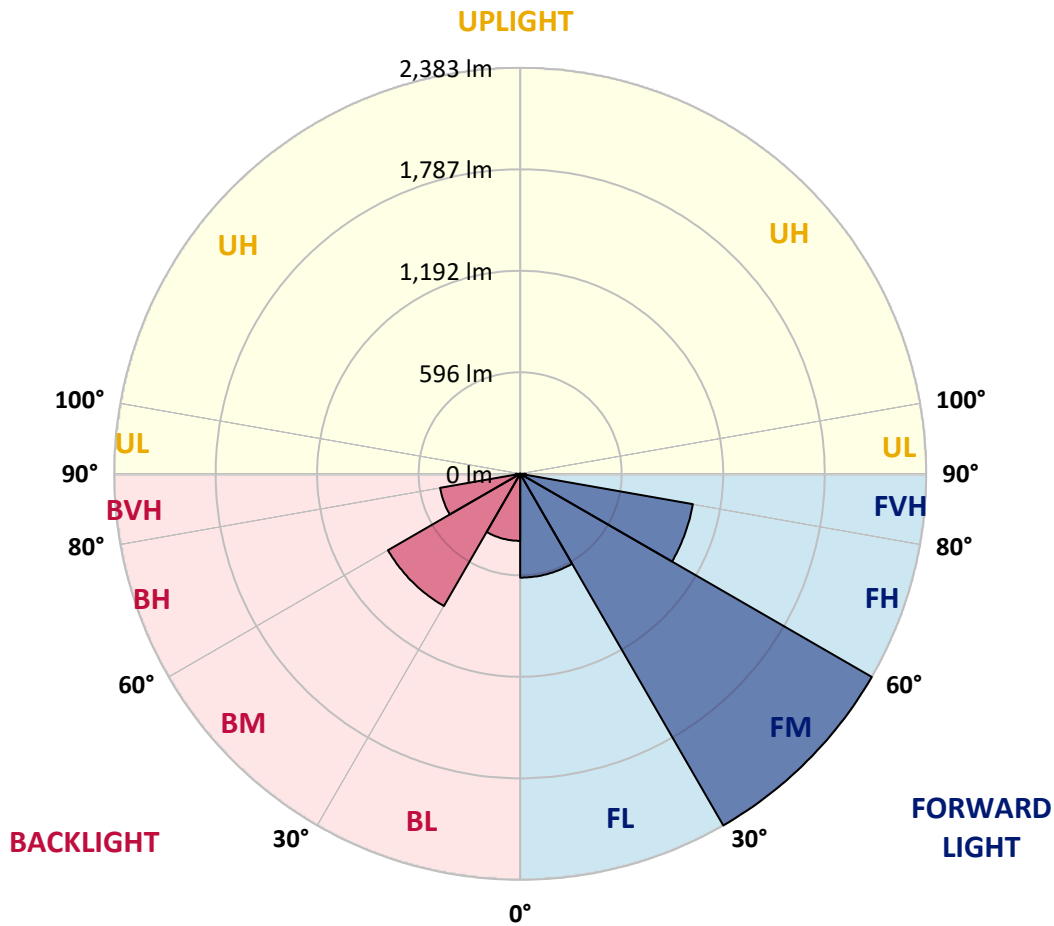


REPORT NUMBER: P853445
 CATALOG NUMBER: CRTK-N-50-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	609.4	10.4			
FM (30°-60°)	2383.2	40.8			
FH (60°-80°)	1029.4	17.6			G1/1800
FVH (80°-90°)	33.6	0.6			G1/100
BL (0°-30°)	393.7	6.7	B1/500		
BM (30°-60°)	896.0	15.3	B1/1000		
BH (60°-80°)	477.1	8.2	B1/500		G1/500
BVH (80°-90°)	25.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium



REPORT NUMBER: P853445

CATALOG NUMBER: CRTK-N-50-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4
2.5°	855.9	857.5	860.7	857.5	855.9	849.3	842.8	839.6	833.1	820.1	816.8
5°	935.6	937.2	940.5	927.4	920.9	903.0	886.8	872.1	855.9	838.0	834.7
7.5°	1033.2	1039.7	1034.8	1015.3	995.8	969.8	942.1	916.1	886.8	864.0	857.5
10°	1142.2	1152.0	1142.2	1112.9	1086.9	1044.6	1002.3	963.2	920.9	890.0	881.9
12.5°	1270.8	1272.4	1267.5	1226.8	1191.0	1132.5	1073.9	1021.8	966.5	925.8	914.4
15°	1410.7	1422.1	1405.8	1355.4	1304.9	1230.1	1155.2	1088.5	1020.2	969.8	956.7
17.5°	1562.0	1566.9	1553.9	1492.1	1428.6	1334.2	1241.5	1158.5	1075.5	1016.9	1000.7
20°	1719.8	1723.1	1706.8	1625.5	1555.5	1443.2	1332.6	1231.7	1134.1	1065.8	1044.6
22.5°	1882.6	1887.4	1858.1	1773.5	1687.3	1560.4	1430.2	1306.6	1199.2	1119.4	1093.4
25°	2077.8	2077.8	2040.4	1939.5	1835.4	1690.6	1542.5	1397.7	1270.8	1179.6	1147.1
27.5°	2277.9	2268.2	2235.6	2120.1	1994.8	1828.9	1662.9	1501.8	1352.1	1244.7	1207.3
30°	2458.5	2456.9	2417.9	2292.6	2149.4	1965.5	1781.7	1607.6	1438.4	1314.7	1272.4
32.5°	2590.3	2592.0	2556.2	2440.7	2289.3	2099.0	1900.5	1711.7	1523.0	1387.9	1344.0
35°	2686.3	2686.3	2657.1	2554.5	2411.4	2225.9	2024.1	1822.4	1615.7	1467.6	1420.5
37.5°	2717.3	2710.7	2697.7	2619.6	2496.0	2333.3	2146.1	1939.5	1713.3	1550.6	1493.7
40°	2670.1	2657.1	2670.1	2622.9	2533.4	2409.7	2251.9	2058.3	1815.8	1638.5	1570.2
42.5°	2569.2	2551.3	2577.3	2554.5	2515.5	2448.8	2331.6	2170.6	1923.2	1726.4	1646.6
45°	2437.4	2413.0	2443.9	2439.0	2432.5	2437.4	2378.8	2269.8	2040.4	1824.0	1734.5
47.5°	2243.8	2208.0	2273.1	2299.1	2321.9	2373.9	2383.7	2349.5	2164.0	1936.2	1830.5
50°	1929.7	1902.1	2016.0	2112.0	2183.6	2271.4	2341.4	2395.1	2289.3	2056.7	1936.2
52.5°	1527.8	1498.6	1653.1	1850.0	2009.5	2146.1	2253.5	2404.9	2409.7	2185.2	2056.7
55°	1111.3	1121.1	1264.3	1500.2	1771.9	2001.3	2142.9	2380.4	2520.4	2339.8	2203.1
57.5°	789.1	797.3	920.9	1117.8	1464.4	1814.2	2038.8	2325.1	2626.1	2509.0	2372.3
60°	538.6	563.0	654.1	803.8	1117.8	1557.1	1933.0	2258.4	2705.9	2679.8	2551.3
62.5°	395.4	408.4	465.4	577.6	797.3	1231.7	1775.2	2211.2	2757.9	2850.7	2705.9
65°	307.5	314.0	346.6	421.4	571.1	896.5	1523.0	2201.5	2777.5	2984.1	2862.1
67.5°	257.1	257.1	275.0	318.9	419.8	628.1	1191.0	2170.6	2764.4	3032.9	2927.2
70°	216.4	214.8	229.4	257.1	315.7	447.5	839.6	2024.1	2694.5	2936.9	2845.8
72.5°	175.7	175.7	195.3	213.2	247.3	325.4	550.0	1710.1	2483.0	2606.6	2539.9
75°	141.6	139.9	154.6	179.0	195.3	237.6	344.9	1244.7	2115.2	2107.1	2035.5
77.5°	109.0	107.4	120.4	146.4	157.8	175.7	224.5	750.1	1467.6	1394.4	1399.3
80°	83.0	79.7	87.9	107.4	110.6	113.9	125.3	305.9	659.0	602.0	600.4
82.5°	52.1	52.1	55.3	68.3	65.1	66.7	56.9	102.5	232.7	198.5	205.0
85°	19.5	19.5	24.4	29.3	26.0	24.4	17.9	22.8	35.8	27.7	26.0
87.5°	1.6	1.6	1.6	3.3	3.3	3.3	1.6	1.6	1.6	1.6	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P853445
 CATALOG NUMBER: CRTK-N-50-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4	818.4
2.5°	815.2	815.2	815.2	816.8	811.9	808.7	803.8	800.5	800.5	802.2	805.4
5°	829.8	828.2	826.6	826.6	821.7	818.4	815.2	811.9	811.9	815.2	815.2
7.5°	849.3	846.1	841.2	841.2	838.0	834.7	833.1	829.8	831.4	833.1	834.7
10°	870.5	865.6	860.7	860.7	857.5	854.2	854.2	849.3	851.0	852.6	854.2
12.5°	899.8	894.9	885.1	888.4	885.1	881.9	878.6	873.8	870.5	873.8	873.8
15°	937.2	929.1	919.3	922.6	917.7	911.2	906.3	896.5	893.3	893.3	894.9
17.5°	976.3	966.5	953.5	956.7	948.6	937.2	925.8	914.4	909.5	907.9	907.9
20°	1016.9	1002.3	986.0	989.3	973.0	955.1	938.8	919.3	911.2	907.9	907.9
22.5°	1057.6	1041.3	1020.2	1016.9	992.5	964.9	938.8	914.4	899.8	896.5	894.9
25°	1104.8	1083.6	1056.0	1046.2	1010.4	969.8	932.3	901.4	883.5	878.6	877.0
27.5°	1156.9	1129.2	1093.4	1070.6	1020.2	964.9	916.1	878.6	857.5	849.3	849.3
30°	1208.9	1176.4	1127.6	1088.5	1018.6	948.6	890.0	844.5	820.1	808.7	808.7
32.5°	1267.5	1223.6	1160.1	1096.7	1007.2	922.6	854.2	802.2	772.9	759.9	758.2
35°	1331.0	1277.3	1187.8	1099.9	989.3	890.0	813.6	756.6	727.3	711.0	709.4
37.5°	1397.7	1329.3	1208.9	1095.0	964.9	852.6	769.6	712.7	673.6	647.6	646.0
40°	1457.9	1378.2	1225.2	1082.0	934.0	811.9	724.1	647.6	593.9	564.6	561.3
42.5°	1513.2	1412.3	1233.3	1062.5	899.8	763.1	660.6	564.6	509.3	480.0	478.4
45°	1573.4	1448.1	1231.7	1039.7	854.2	707.8	580.9	483.2	434.4	410.0	408.4
47.5°	1638.5	1483.9	1231.7	1013.7	803.8	636.2	501.1	413.3	367.7	346.6	344.9
50°	1706.8	1523.0	1226.8	982.8	745.2	551.6	423.0	346.6	310.8	294.5	294.5
52.5°	1788.2	1565.3	1225.2	945.3	675.2	468.6	353.1	292.9	265.2	257.1	257.1
55°	1885.8	1617.3	1228.5	899.8	593.9	387.2	297.8	255.5	239.2	235.9	235.9
57.5°	2007.8	1684.0	1238.2	849.3	504.4	317.3	257.1	234.3	229.4	227.8	227.8
60°	2144.5	1765.4	1256.1	792.4	418.2	265.2	232.7	224.5	222.9	229.4	229.4
62.5°	2287.7	1856.5	1285.4	719.2	341.7	229.4	218.0	214.8	216.4	227.8	227.8
65°	2421.1	1950.9	1309.8	634.6	275.0	208.3	205.0	205.0	213.2	226.2	226.2
67.5°	2505.7	2035.5	1287.0	527.2	224.5	190.4	192.0	193.6	206.6	218.0	219.7
70°	2473.2	2030.6	1153.6	398.6	185.5	174.1	179.0	182.2	190.4	206.6	211.5
72.5°	2247.0	1845.1	894.9	271.7	156.2	156.2	164.3	169.2	174.1	190.4	200.1
75°	1874.4	1495.3	597.1	179.0	130.2	141.6	149.7	151.3	156.2	170.8	175.7
77.5°	1311.4	976.3	328.7	120.4	102.5	115.5	125.3	131.8	138.3	144.8	148.1
80°	574.4	434.4	157.8	79.7	76.5	86.2	94.4	107.4	118.8	130.2	131.8
82.5°	188.7	152.9	71.6	45.6	45.6	55.3	63.5	79.7	92.7	110.6	110.6
85°	26.0	19.5	21.2	17.9	19.5	26.0	32.5	42.3	47.2	47.2	40.7
87.5°	3.3	3.3	3.3	3.3	3.3	4.9	4.9	4.9	3.3	3.3	1.6
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)