

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: P799507

Luminaire Tested: **ARCH2-30-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-30-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5131 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 34.4
Input Voltage (V): NR
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



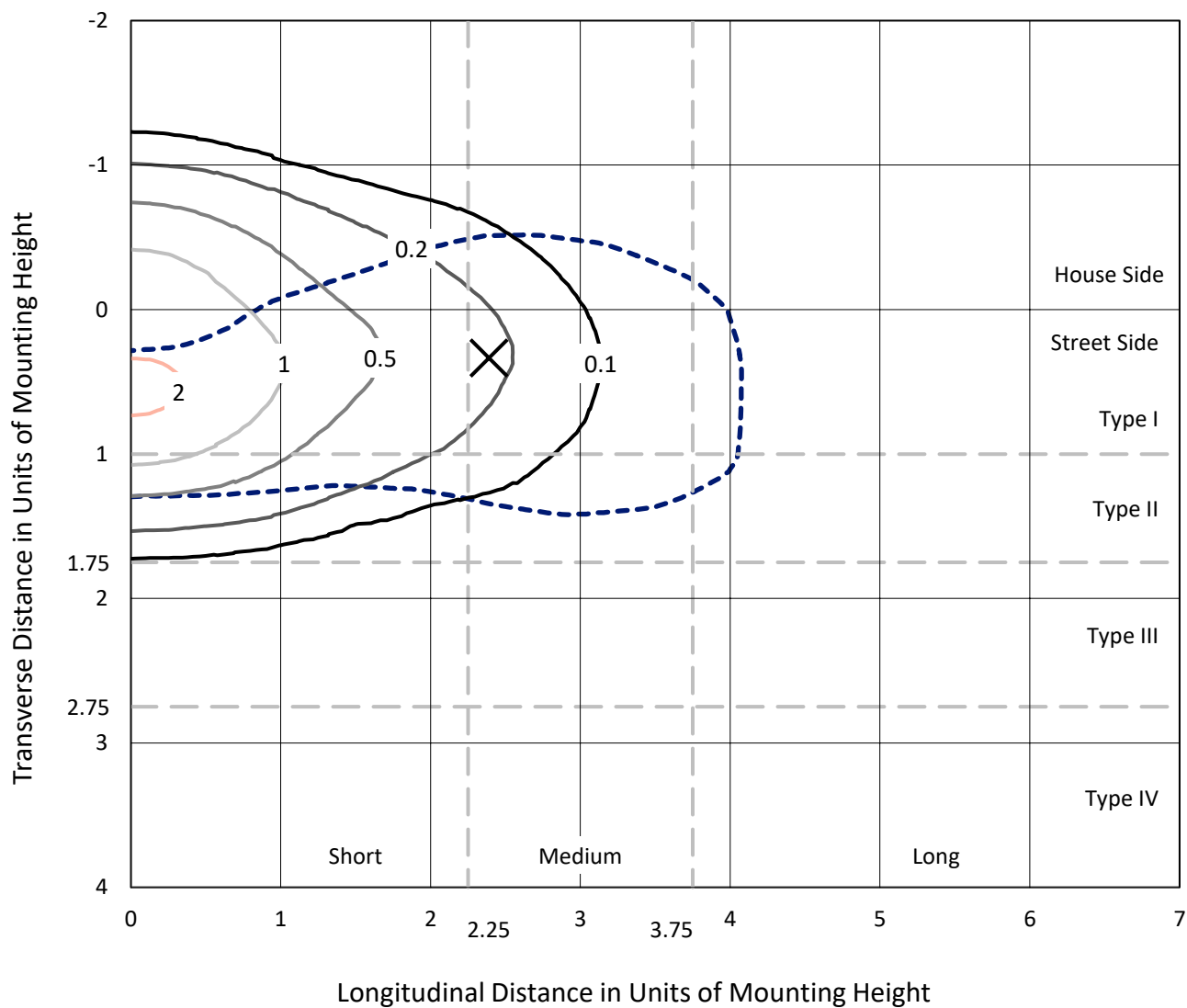
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

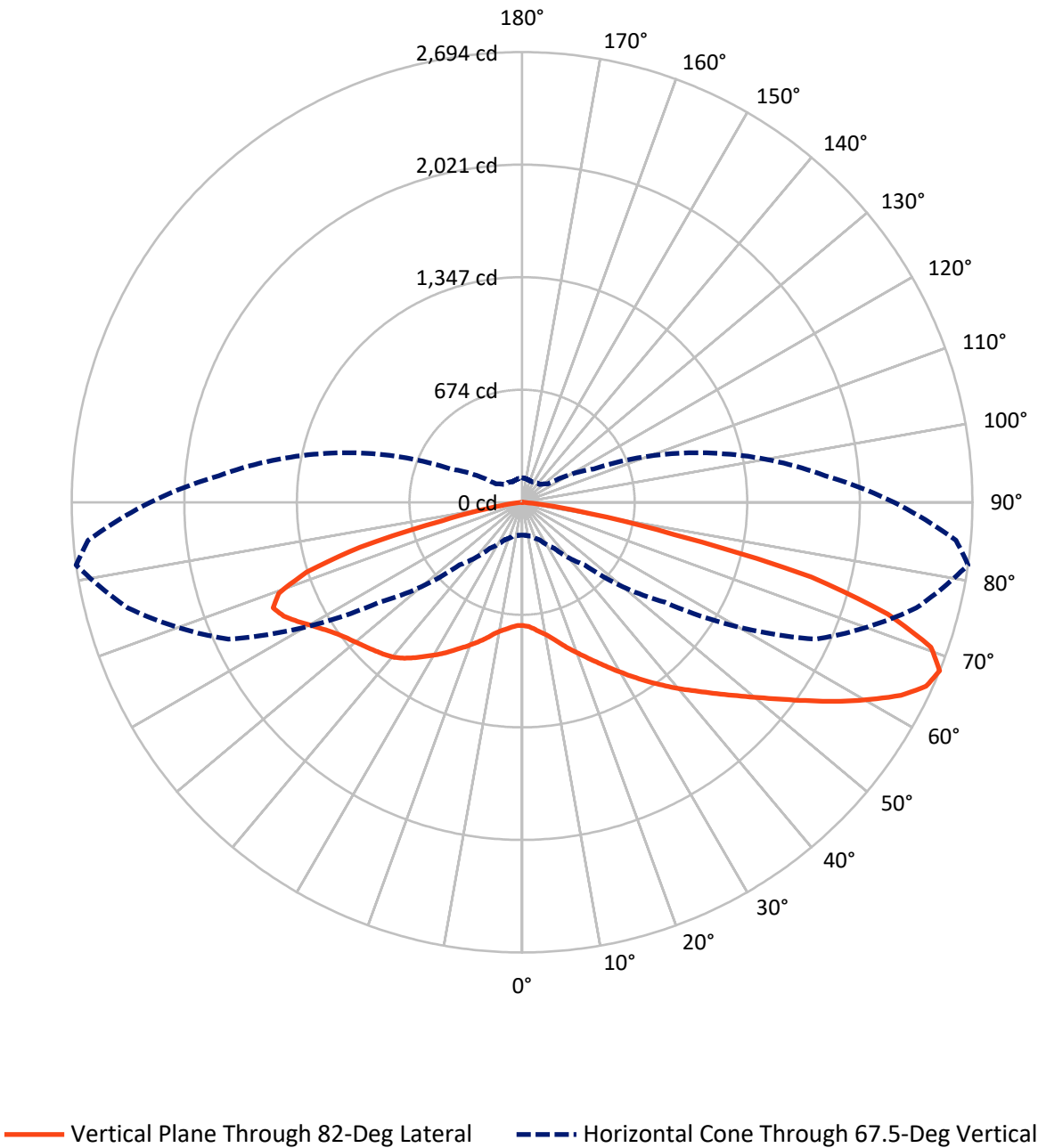
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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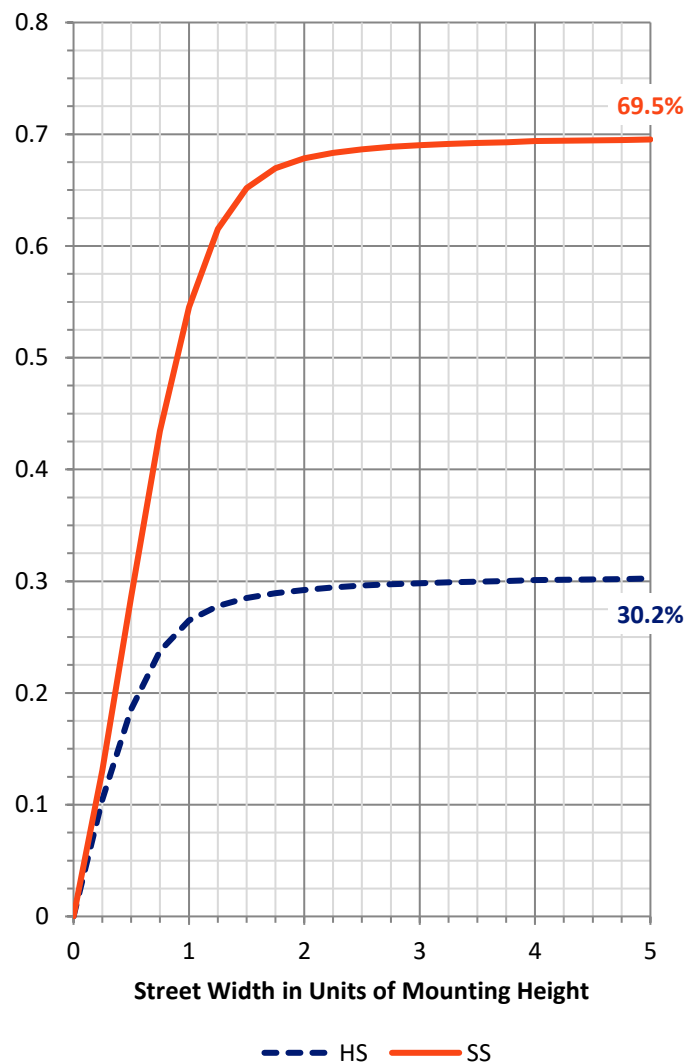
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1562.6	0.0	1562.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3568.4	0.0	3568.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	5131.0	0.0	5131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	1.5
10°-20°	274.6	5.4
20°-30°	551.8	10.8
30°-40°	866.8	16.9
40°-50°	1056.0	20.6
50°-60°	997.8	19.4
60°-70°	823.9	16.1
70°-80°	448.7	8.7
80°-90°	35.3	0.7
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°	5131.0	100.0
0°-180°	5131.0	100.0

Coefficient of Utilization



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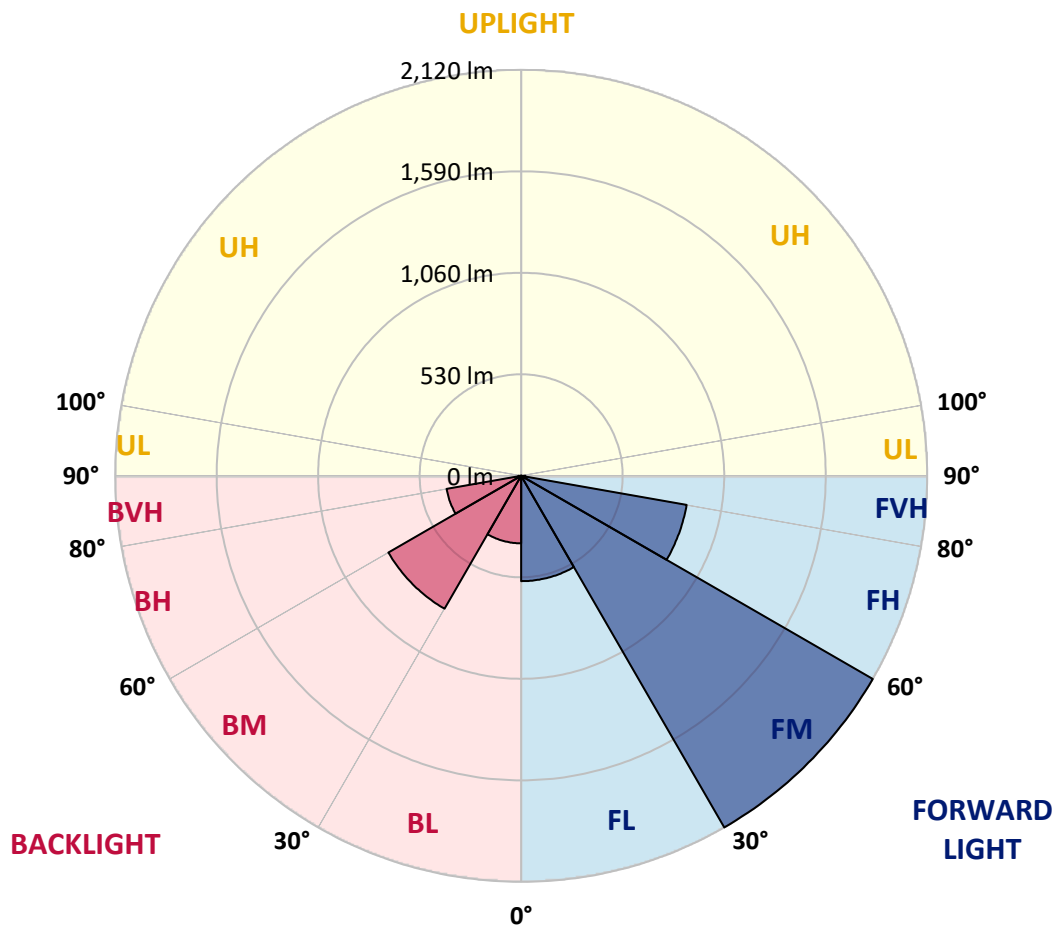
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.2	10.7			
FM	(30°-60°)	2119.8	41.3			
FH	(60°-80°)	877.1	17.1			G1/1800
FVH	(80°-90°)	21.3	0.4			G1/100
BL	(0°-30°)	352.4	6.9	B1/500		
BM	(30°-60°)	800.7	15.6	B1/1000		
BH	(60°-80°)	395.5	7.7	B1/500		G1/500
BVH	(80°-90°)	14.0	0.3			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6
2.5°	771.1	771.1	777.1	777.1	771.8	763.7	761.4	752.5	744.3	744.3	745.0
5°	844.9	844.1	848.6	842.6	830.0	813.6	802.4	783.0	766.6	761.4	760.7
7.5°	935.0	934.3	936.5	926.8	903.0	876.2	853.8	822.5	795.7	784.5	781.5
10°	1035.6	1034.8	1032.6	1016.2	984.2	942.5	908.9	865.7	825.5	807.6	803.9
12.5°	1151.1	1149.6	1144.4	1120.5	1076.6	1022.9	974.5	918.6	865.0	840.4	832.2
15°	1280.0	1277.7	1268.0	1239.0	1180.1	1112.3	1049.7	978.2	912.7	880.6	869.4
17.5°	1415.6	1415.6	1400.7	1357.4	1291.9	1207.7	1130.2	1039.3	962.6	923.1	909.7
20°	1553.4	1552.6	1534.0	1481.9	1404.4	1307.5	1209.2	1109.3	1014.0	966.3	949.9
22.5°	1698.7	1697.2	1674.1	1614.5	1522.1	1412.6	1297.8	1178.6	1070.6	1013.2	992.4
25°	1865.6	1863.3	1835.0	1762.0	1652.5	1528.8	1397.7	1259.8	1135.4	1065.4	1040.8
27.5°	2042.9	2039.9	2006.4	1921.4	1801.5	1652.5	1507.9	1353.7	1206.9	1123.5	1095.9
30°	2200.8	2198.6	2162.1	2074.9	1937.1	1775.4	1613.0	1447.6	1282.2	1185.3	1151.1
32.5°	2320.0	2320.0	2287.2	2201.6	2058.5	1893.1	1718.8	1536.2	1360.4	1251.6	1211.4
35°	2392.3	2394.5	2366.2	2297.7	2162.8	2004.1	1828.3	1640.6	1443.9	1322.4	1279.2
37.5°	2402.7	2410.2	2393.8	2347.6	2235.1	2096.5	1935.6	1741.1	1530.3	1393.9	1345.5
40°	2354.3	2359.5	2360.3	2342.4	2264.9	2162.8	2030.2	1847.7	1621.9	1469.2	1413.3
42.5°	2257.4	2261.2	2267.9	2273.1	2243.3	2191.9	2102.5	1946.8	1719.5	1545.9	1480.4
45°	2132.3	2131.5	2142.7	2165.1	2163.6	2175.5	2142.7	2036.9	1820.9	1633.1	1554.9
47.5°	1945.3	1941.5	1981.0	2031.7	2057.0	2112.9	2143.4	2107.7	1931.1	1729.2	1639.8
50°	1652.5	1648.7	1735.2	1854.4	1928.9	2013.8	2102.5	2150.2	2046.6	1837.2	1732.2
52.5°	1296.4	1292.6	1402.1	1610.8	1773.2	1896.8	2019.8	2159.8	2156.1	1957.9	1836.5
55°	964.1	961.1	1067.6	1293.4	1556.4	1761.2	1918.4	2134.5	2258.9	2096.5	1963.2
57.5°	679.5	678.0	770.4	957.4	1277.7	1595.9	1820.9	2085.3	2353.5	2247.0	2106.2
60°	476.8	474.6	541.6	686.2	966.3	1346.3	1724.0	2019.8	2424.3	2395.3	2258.2
62.5°	321.1	319.6	367.3	488.0	686.2	1036.3	1577.2	1975.8	2464.6	2544.3	2411.7
65°	243.6	242.9	264.5	330.8	485.8	744.3	1344.0	1970.6	2469.8	2656.0	2542.0
67.5°	196.7	197.4	209.4	247.3	336.0	529.0	1042.3	1937.8	2442.2	2694.0	2605.4
70°	160.9	160.9	166.1	191.5	248.1	356.9	727.9	1788.8	2365.5	2594.9	2530.1
72.5°	122.9	123.7	140.1	155.0	187.0	250.3	466.4	1480.4	2184.4	2288.0	2238.8
75°	97.6	96.9	106.5	127.4	145.3	178.8	286.1	1061.7	1858.8	1788.1	1756.8
77.5°	70.0	69.3	76.7	94.6	110.3	126.7	170.6	535.7	1011.0	929.1	906.0
80°	47.7	46.2	52.9	65.6	73.0	74.5	83.4	205.6	441.1	415.7	410.5
82.5°	24.6	24.6	28.3	37.3	38.0	38.7	37.3	66.3	146.0	136.3	130.4
85°	9.7	9.7	10.4	12.7	12.7	13.4	13.4	17.1	15.6	14.9	14.2
87.5°	0.7	0.7	1.5	1.5	2.2	2.2	2.2	3.0	3.7	3.7	3.7
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°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6
2.5°	743.5	740.6	730.9	728.6	727.1	724.9	725.7	720.4	718.2	719.0	716.0
5°	756.9	751.7	739.8	734.6	733.1	730.9	733.1	729.4	725.7	727.1	725.7
7.5°	775.6	768.1	753.2	748.0	747.3	745.0	748.0	745.0	742.0	743.5	740.6
10°	794.9	785.3	768.9	763.7	763.7	762.9	765.9	761.4	758.4	759.2	757.7
12.5°	823.3	810.6	792.7	788.2	786.0	788.2	789.0	783.0	777.8	778.6	776.3
15°	857.5	843.4	824.0	817.3	815.8	815.1	812.1	804.6	797.9	797.2	794.9
17.5°	894.8	876.9	853.8	847.1	840.4	838.2	830.7	821.0	810.6	810.6	807.6
20°	930.5	910.4	882.9	873.2	863.5	854.5	841.9	826.2	812.8	810.6	807.6
22.5°	969.3	945.4	913.4	899.2	882.1	864.2	842.6	821.8	804.6	800.9	798.7
25°	1012.5	982.7	944.7	923.8	896.3	868.7	836.7	809.8	789.7	783.8	782.3
27.5°	1060.2	1024.4	978.2	947.7	907.4	864.2	823.3	791.2	766.6	759.2	756.9
30°	1108.6	1066.1	1008.8	964.1	907.4	850.1	798.7	761.4	733.1	722.7	721.2
32.5°	1157.0	1109.3	1036.3	973.0	898.5	826.2	766.6	722.7	690.6	678.0	681.0
35°	1215.1	1157.0	1061.7	976.7	883.6	797.2	730.1	678.7	645.9	634.8	637.0
37.5°	1275.5	1204.7	1081.8	973.8	862.7	764.4	689.2	639.2	598.3	578.9	581.1
40°	1327.6	1247.9	1095.9	963.3	835.9	727.1	648.9	583.4	526.7	508.1	505.9
42.5°	1376.8	1280.0	1103.4	947.7	805.4	683.9	591.6	507.4	450.7	427.6	428.4
45°	1428.2	1311.3	1100.4	926.8	767.4	633.3	517.8	432.9	382.9	362.1	362.8
47.5°	1487.1	1344.8	1097.4	904.5	721.2	567.7	447.0	367.3	324.1	309.2	307.7
50°	1549.7	1382.0	1093.7	876.9	669.8	494.7	377.0	306.2	269.7	260.0	257.8
52.5°	1620.4	1422.3	1091.5	844.1	607.9	417.2	314.4	252.6	228.0	221.3	220.5
55°	1705.4	1469.2	1094.4	804.6	533.4	344.2	261.5	217.5	201.2	197.4	196.7
57.5°	1808.9	1529.5	1103.4	758.4	455.2	280.9	222.8	195.9	185.5	182.5	182.5
60°	1921.4	1598.1	1119.8	706.3	377.0	231.7	197.4	178.8	174.3	178.1	178.1
62.5°	2042.9	1678.6	1148.8	643.0	304.0	195.9	177.3	164.7	161.7	169.1	169.9
65°	2155.4	1756.8	1167.5	567.0	241.4	169.9	161.7	150.5	152.0	159.4	158.7
67.5°	2224.7	1821.6	1141.4	471.6	191.5	150.5	145.3	135.6	139.3	145.3	146.0
70°	2182.2	1785.1	1012.5	356.1	149.8	131.1	127.4	121.4	124.4	131.9	134.9
72.5°	1974.3	1598.8	787.5	240.6	120.7	110.3	111.8	108.8	112.5	119.2	125.9
75°	1602.6	1208.4	528.2	154.2	95.4	93.9	96.1	93.9	95.4	102.1	105.8
77.5°	836.7	589.3	263.0	96.1	70.8	73.0	76.7	77.5	82.0	83.4	84.9
80°	390.4	265.2	109.5	53.6	46.9	51.4	58.9	59.6	61.1	63.3	64.1
82.5°	127.4	79.7	50.7	29.1	26.8	29.1	38.0	45.4	46.2	50.7	50.7
85°	13.4	8.2	11.2	11.9	10.4	12.7	17.1	16.4	7.5	4.5	4.5
87.5°	3.7	3.0	3.7	3.7	3.0	3.0	2.2	0.7	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)