

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: P177352

Luminaire Tested: **VAL-F04-LED-E-U-WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177352
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-F04-LED-E-U-WQ-7030
Description: VALET TUNNEL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9325.7 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 102.2
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: 28.75 FT

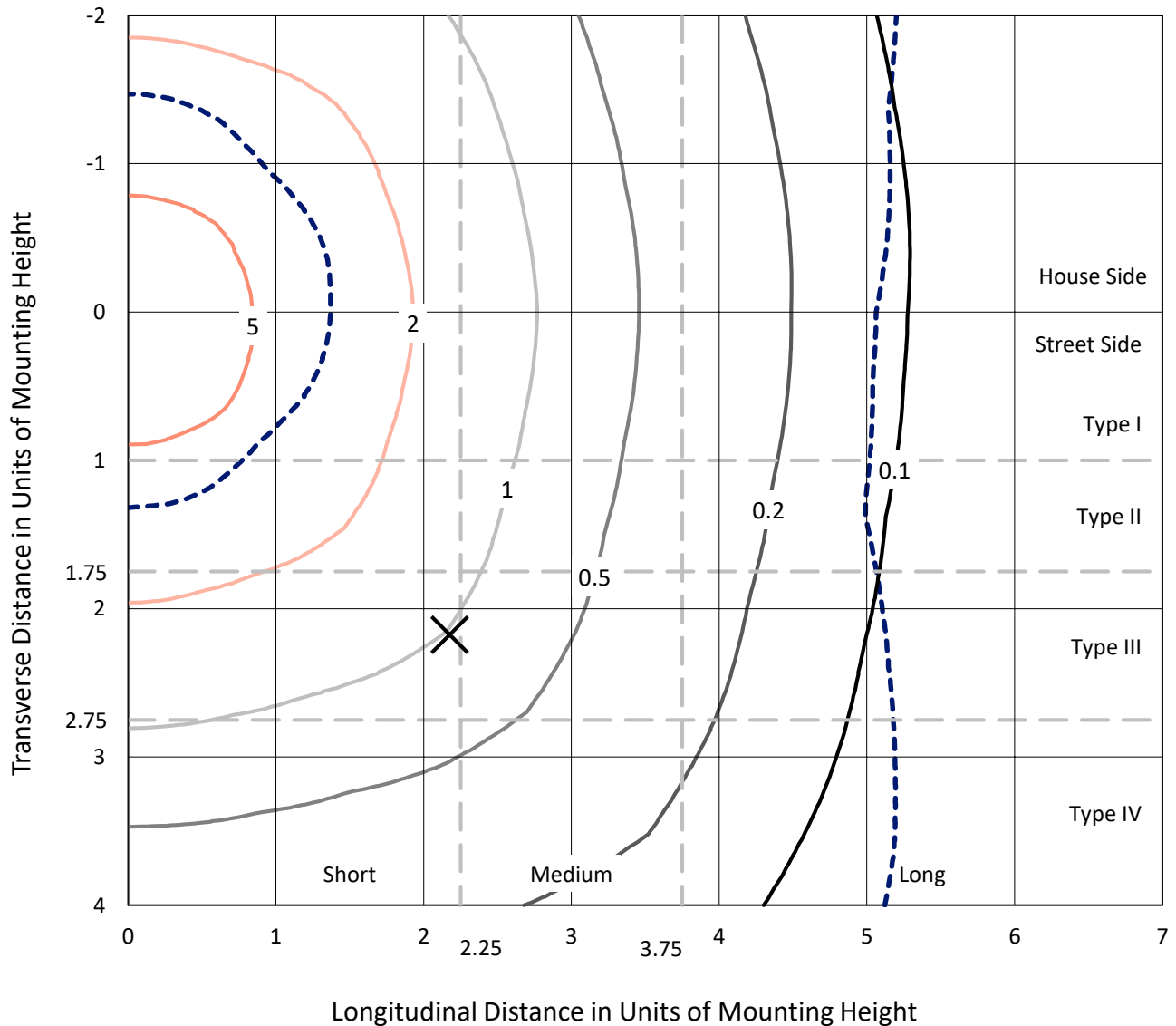


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

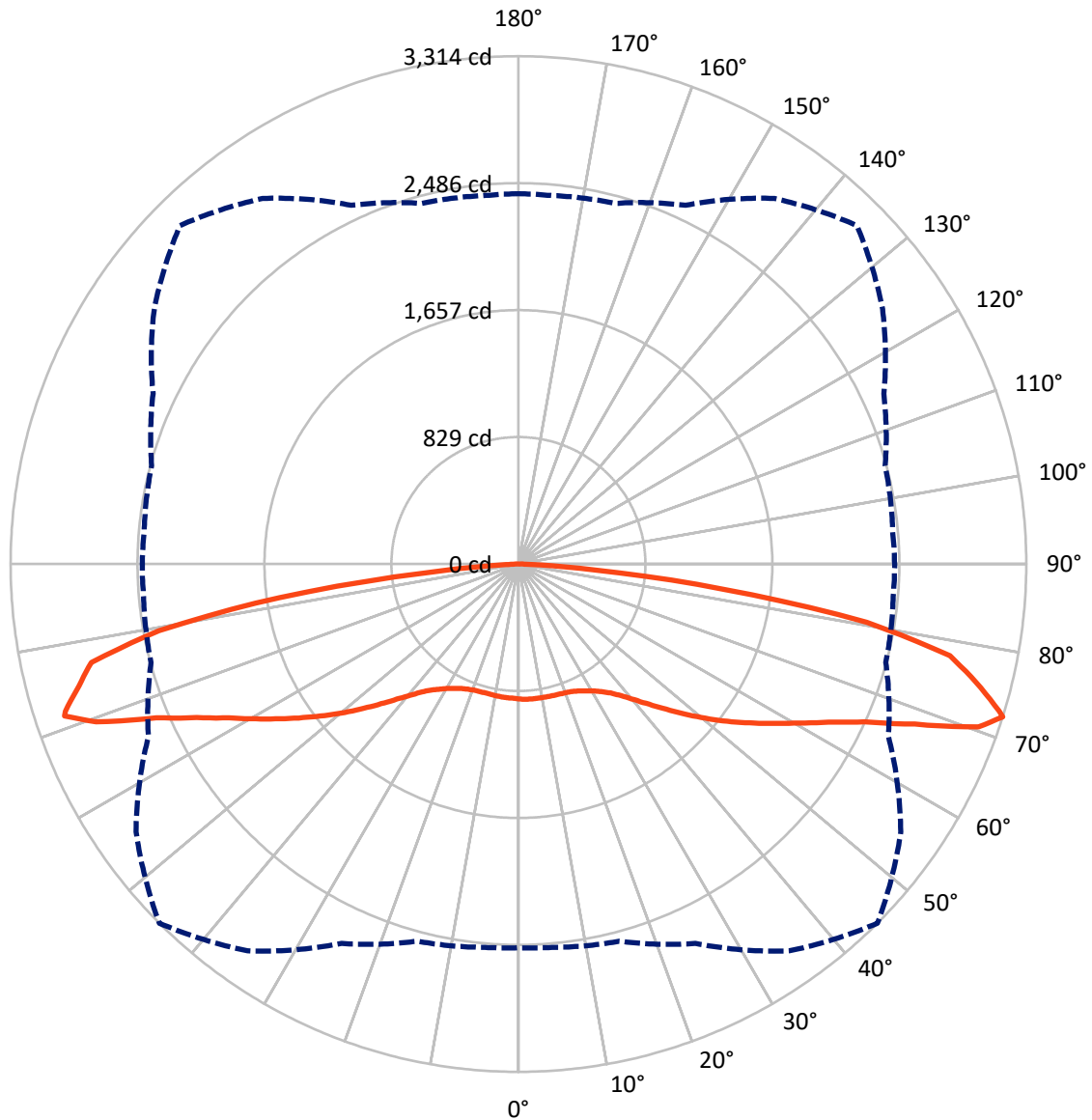


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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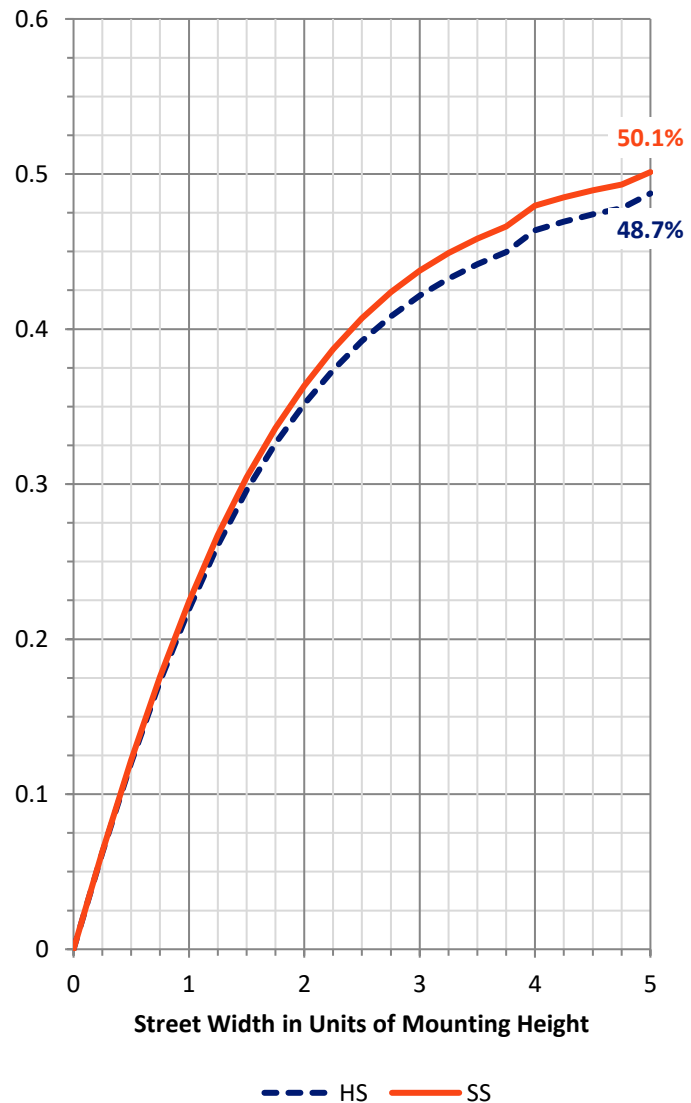
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4598.9	0.0	4598.9
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	4726.8	0.0	4726.8
	% Fixture	50.7	0.0	50.7
Total	Lumens	9325.7	0.0	9325.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	0.9
10°-20°	249.7	2.7
20°-30°	419.4	4.5
30°-40°	638.3	6.8
40°-50°	1009.1	10.8
50°-60°	1541.3	16.5
60°-70°	2258.1	24.2
70°-80°	2565.3	27.5
80°-90°	560.4	6.0
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°	9325.7	100.0
0°-180°	9325.7	100.0



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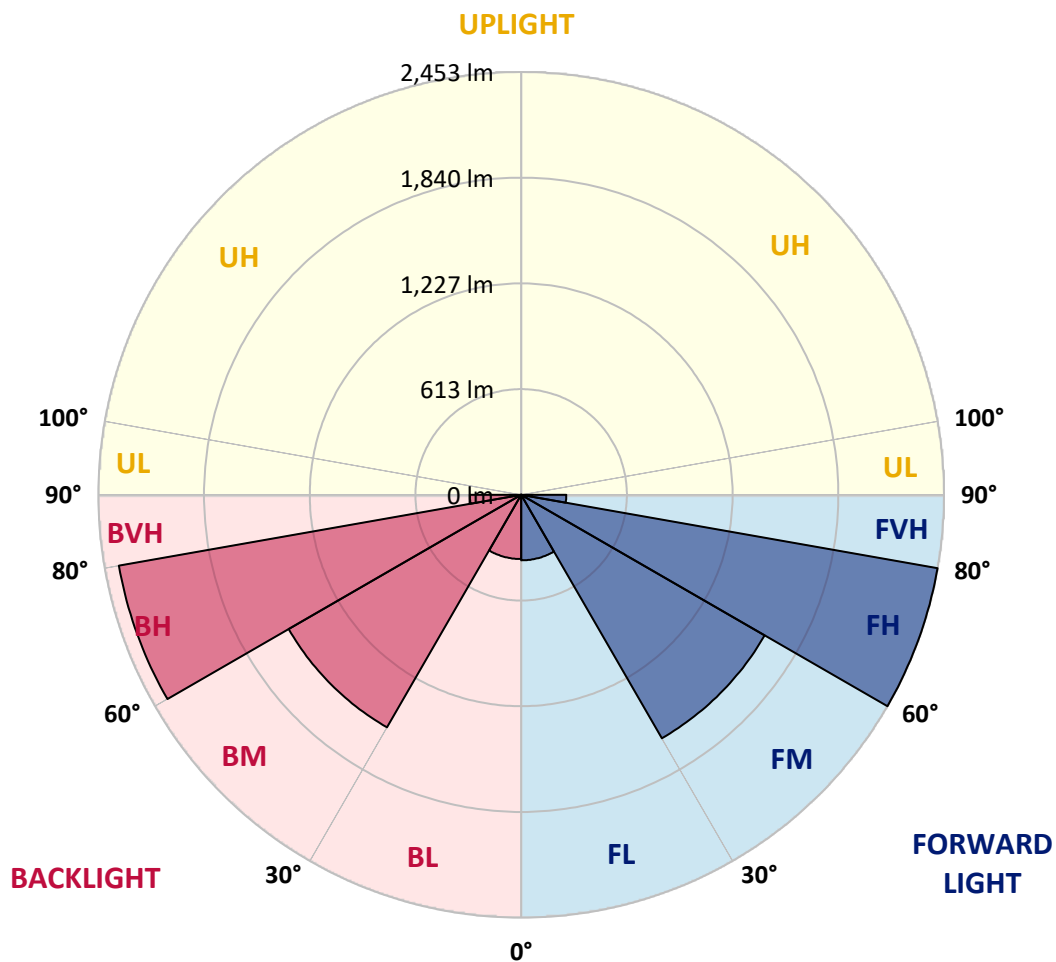
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.3	4.1			
FM (30°-60°)	1631.1	17.5			
FH (60°-80°)	2453.3	26.3			G2/5000
FVH (80°-90°)	262.1	2.8			G3/500
BL (0°-30°)	372.8	4.0	B1/500		
BM (30°-60°)	1557.8	16.7	B2/2500		
BH (60°-80°)	2370.1	25.4	B3/2500		G2/5000
BVH (80°-90°)	298.3	3.2			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	880.7	880.7	880.7	880.7	880.7	880.7	880.7	880.7	880.7	880.7	880.7
2.5°	887.9	887.9	885.5	884.3	884.3	883.7	883.1	883.1	882.5	883.1	881.3
5°	889.1	889.1	886.7	885.5	884.9	884.3	884.3	883.1	882.5	883.1	881.3
7.5°	889.1	889.7	888.5	887.3	885.5	884.9	884.3	882.5	882.5	881.3	880.7
10°	891.5	893.3	890.9	889.1	886.7	885.5	883.7	882.5	881.9	880.7	880.7
12.5°	893.3	895.1	892.7	890.9	888.5	886.7	884.3	882.5	881.3	879.5	880.1
15°	895.7	897.6	895.1	892.7	890.3	887.9	885.5	883.1	881.3	880.1	880.1
17.5°	897.0	898.8	896.3	893.9	892.1	890.9	887.9	884.3	881.9	880.7	880.7
20°	898.8	900.6	898.8	897.6	895.7	895.1	892.1	887.9	884.9	883.1	882.5
22.5°	903.0	904.2	903.6	903.6	903.6	903.0	900.6	893.9	890.3	887.3	886.7
25°	913.2	912.6	913.8	915.0	915.6	916.9	913.2	906.0	901.2	896.3	895.7
27.5°	930.1	930.7	931.3	933.7	936.2	936.8	933.1	925.3	918.1	911.4	910.8
30°	949.4	949.4	951.8	956.7	959.1	960.9	957.3	947.6	938.6	931.9	930.7
32.5°	977.2	979.6	980.8	986.2	991.0	992.9	987.4	977.2	966.9	958.5	956.7
35°	1017.0	1020.6	1021.8	1026.6	1032.1	1032.7	1027.8	1016.4	1005.5	994.1	994.7
37.5°	1073.1	1073.7	1076.7	1077.9	1088.2	1088.2	1080.3	1070.1	1059.2	1049.0	1045.9
40°	1147.9	1148.5	1149.7	1147.9	1159.9	1163.6	1153.3	1137.6	1127.4	1114.1	1112.3
42.5°	1229.3	1235.3	1234.7	1231.7	1243.8	1251.6	1239.0	1220.9	1210.0	1196.1	1193.7
45°	1330.0	1328.8	1323.4	1330.0	1343.9	1352.4	1336.7	1313.8	1302.3	1284.8	1284.2
47.5°	1427.8	1426.6	1418.1	1422.9	1448.9	1462.7	1439.8	1413.9	1398.8	1388.6	1380.7
50°	1520.7	1529.1	1518.2	1528.5	1562.3	1581.0	1559.9	1518.8	1500.7	1485.1	1480.8
52.5°	1629.8	1634.7	1625.0	1641.3	1678.7	1705.8	1676.9	1623.8	1605.7	1588.2	1582.8
55°	1741.4	1739.0	1734.2	1752.3	1798.1	1830.1	1798.7	1734.8	1708.2	1695.0	1695.0
57.5°	1851.2	1852.4	1841.0	1862.7	1920.6	1962.8	1923.6	1845.2	1812.6	1797.5	1802.3
60°	1968.8	1968.8	1951.3	1971.2	2052.1	2105.8	2046.6	1956.8	1921.2	1912.1	1912.7
62.5°	2100.9	2096.1	2076.8	2101.5	2199.9	2271.0	2196.8	2084.6	2038.2	2038.2	2042.4
65°	2253.5	2245.7	2239.1	2267.4	2394.7	2481.5	2383.8	2242.1	2201.1	2196.2	2204.1
67.5°	2473.1	2481.5	2464.7	2502.1	2675.8	2789.2	2640.8	2458.0	2414.6	2410.4	2429.7
70°	2670.9	2662.5	2684.2	2789.8	3026.2	3184.3	2978.0	2696.9	2572.6	2547.3	2555.1
72°	2504.5	2511.1	2547.9	2731.3	3081.7	3314.0	3046.1	2663.7	2481.5	2455.0	2454.4
72.5°	2465.9	2470.7	2502.1	2678.2	3041.9	3279.6	3011.8	2621.5	2449.6	2426.7	2425.4
75°	2263.2	2272.8	2322.3	2493.6	2862.8	3086.5	2835.0	2470.1	2281.3	2237.9	2246.9
77.5°	1927.8	1947.7	1997.8	2195.0	2628.1	2878.4	2609.4	2189.6	1977.9	1945.9	1935.7
80°	1414.5	1388.0	1478.4	1653.4	1961.6	2306.0	1989.9	1649.7	1430.2	1371.7	1386.1
82.5°	481.3	492.8	635.8	848.7	1076.7	1346.3	1143.1	826.4	608.6	535.0	502.5
85°	58.5	63.3	98.9	180.4	339.0	489.8	346.2	183.4	114.0	70.0	61.5
87.5°	28.4	30.2	42.2	45.2	56.1	47.7	56.7	36.2	34.4	21.1	17.5
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°	880.7	880.7	880.7	880.7	880.7	880.7	880.7	880.7	880.7	880.7
2.5°	880.7	879.5	878.9	877.6	876.4	876.4	876.4	876.4	876.4	877.0
5°	880.7	879.5	878.9	877.0	875.8	875.8	875.2	875.8	875.2	875.8
7.5°	880.7	878.9	877.0	875.2	874.0	874.6	873.4	872.8	873.4	873.4
10°	880.1	877.0	874.6	872.8	872.2	871.6	871.6	871.0	872.2	871.6
12.5°	879.5	875.8	872.8	870.4	869.8	869.8	869.8	869.8	871.6	871.0
15°	878.9	875.2	872.2	869.2	868.6	869.8	869.8	871.0	872.2	872.2
17.5°	879.5	875.2	871.6	869.2	869.2	870.4	871.0	872.8	874.6	873.4
20°	881.9	877.0	874.0	871.6	872.8	874.0	874.0	875.2	877.0	875.8
22.5°	885.5	881.9	879.5	878.9	880.7	881.3	880.7	880.1	880.7	879.5
25°	893.9	890.3	888.5	890.9	892.7	892.1	889.7	887.3	886.1	885.5
27.5°	909.6	906.6	906.0	909.0	910.8	907.8	903.6	900.0	898.8	897.0
30°	928.9	927.1	928.9	931.9	932.5	927.7	921.7	916.3	914.4	914.4
32.5°	954.3	952.4	956.7	961.5	962.7	956.1	946.4	939.2	934.3	933.7
35°	991.0	989.8	991.0	997.1	996.5	989.8	979.0	970.5	965.7	965.7
37.5°	1042.3	1041.1	1038.1	1044.1	1043.5	1034.5	1023.0	1015.8	1010.4	1011.0
40°	1109.3	1107.5	1103.8	1105.1	1109.9	1097.8	1083.3	1073.7	1073.1	1073.1
42.5°	1189.5	1181.1	1182.3	1189.5	1185.9	1171.4	1158.1	1149.7	1149.7	1149.1
45°	1277.0	1273.9	1272.7	1275.2	1278.2	1266.7	1244.4	1234.7	1234.1	1234.1
47.5°	1378.3	1363.2	1366.2	1372.3	1379.5	1365.0	1336.7	1325.2	1323.4	1324.0
50°	1477.2	1461.5	1464.6	1477.2	1491.1	1468.2	1433.2	1419.3	1416.9	1418.1
52.5°	1579.8	1566.5	1566.5	1587.6	1605.7	1577.4	1533.3	1516.4	1516.4	1515.8
55°	1688.3	1670.2	1677.5	1704.6	1726.3	1692.0	1637.7	1624.4	1614.1	1618.4
57.5°	1796.3	1778.2	1784.3	1825.9	1853.0	1812.0	1743.8	1716.1	1710.1	1708.9
60°	1906.7	1886.2	1893.4	1958.6	1990.5	1936.3	1836.1	1802.3	1796.9	1796.3
62.5°	2029.1	2014.7	2025.5	2100.9	2137.7	2060.5	1934.4	1895.8	1897.7	1893.4
65°	2181.8	2170.3	2189.0	2281.3	2326.5	2213.1	2061.7	2017.1	2022.5	2021.9
67.5°	2400.1	2386.2	2397.7	2526.8	2567.2	2421.8	2238.5	2194.4	2202.9	2216.7
70°	2537.0	2547.3	2650.4	2831.4	2942.4	2794.0	2551.5	2468.9	2473.1	2474.9
72°	2451.4	2477.3	2630.5	2900.8	3123.3	2912.2	2582.3	2435.7	2414.0	2416.4
72.5°	2428.5	2448.4	2602.2	2871.8	3108.3	2886.9	2549.1	2410.4	2375.4	2376.6
75°	2255.9	2293.9	2441.7	2722.2	2975.6	2759.6	2421.2	2273.4	2246.3	2246.3
77.5°	1958.6	2011.7	2163.1	2556.9	2861.0	2625.7	2259.0	2076.2	2048.4	2038.2
80°	1441.0	1518.8	1667.8	2056.9	2385.0	2170.3	1859.6	1671.5	1628.0	1612.3
82.5°	567.6	634.6	884.9	1239.0	1571.9	1337.9	1011.6	843.9	709.4	694.9
85°	70.6	114.0	223.2	408.4	624.3	444.0	264.8	138.7	74.8	62.7
87.5°	20.5	38.6	42.2	68.8	81.4	74.8	47.0	42.2	23.5	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)