

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: P507547

Luminaire Tested: **VERD-S-CA1-40-740-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-40-740-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 760mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6065 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.4
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

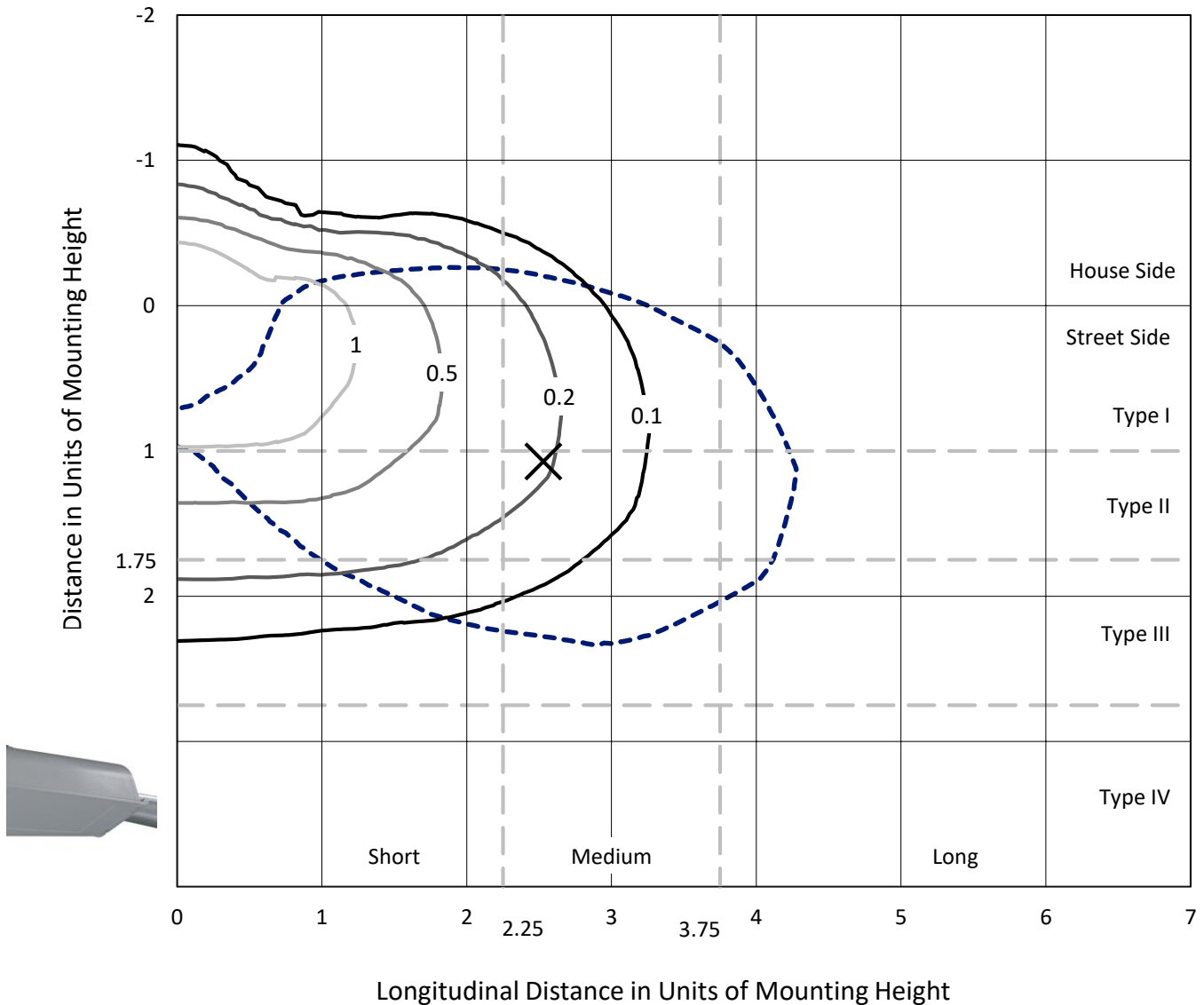


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Iso-Footcandle Lines of Horizontal Illumination

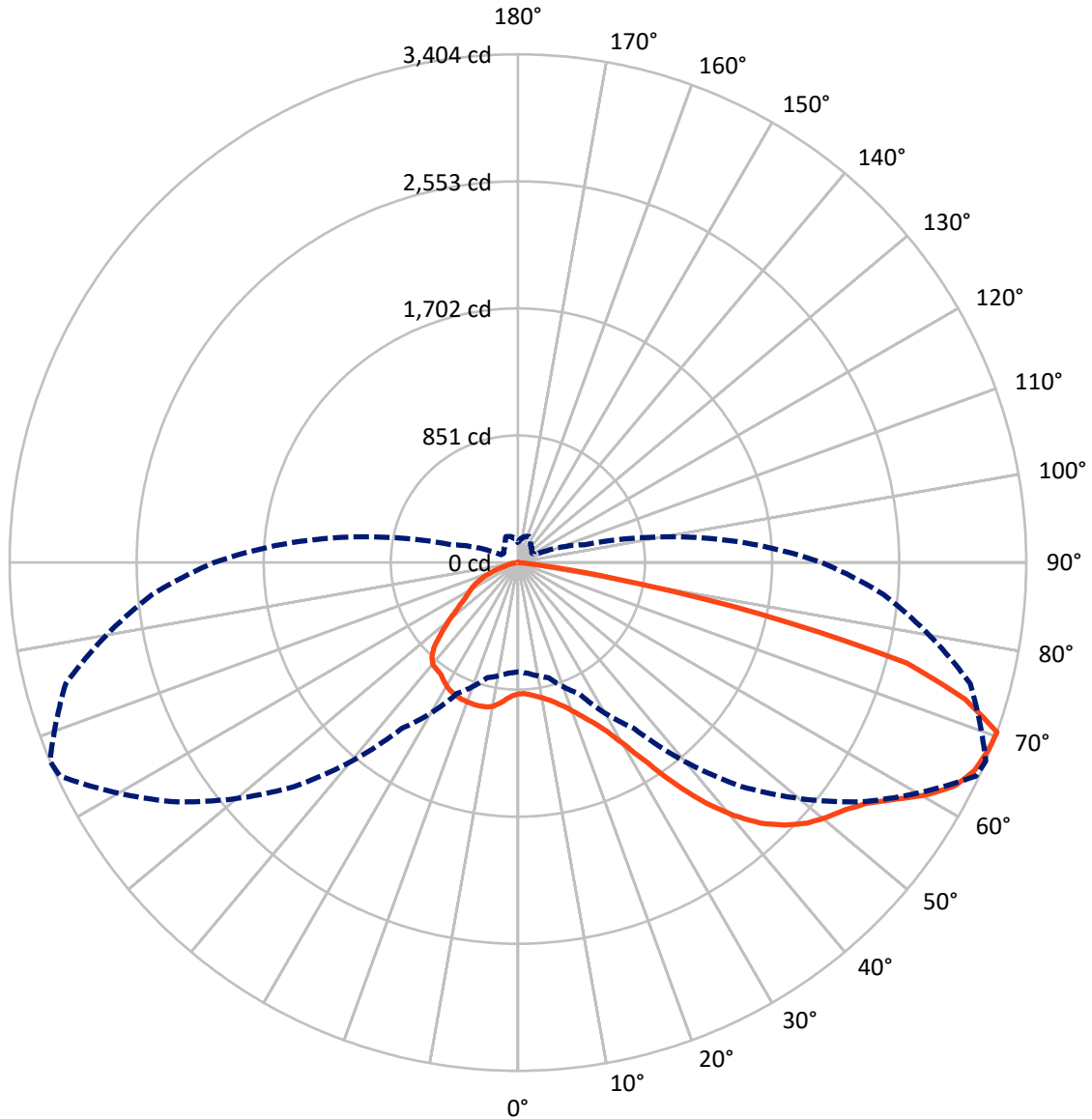
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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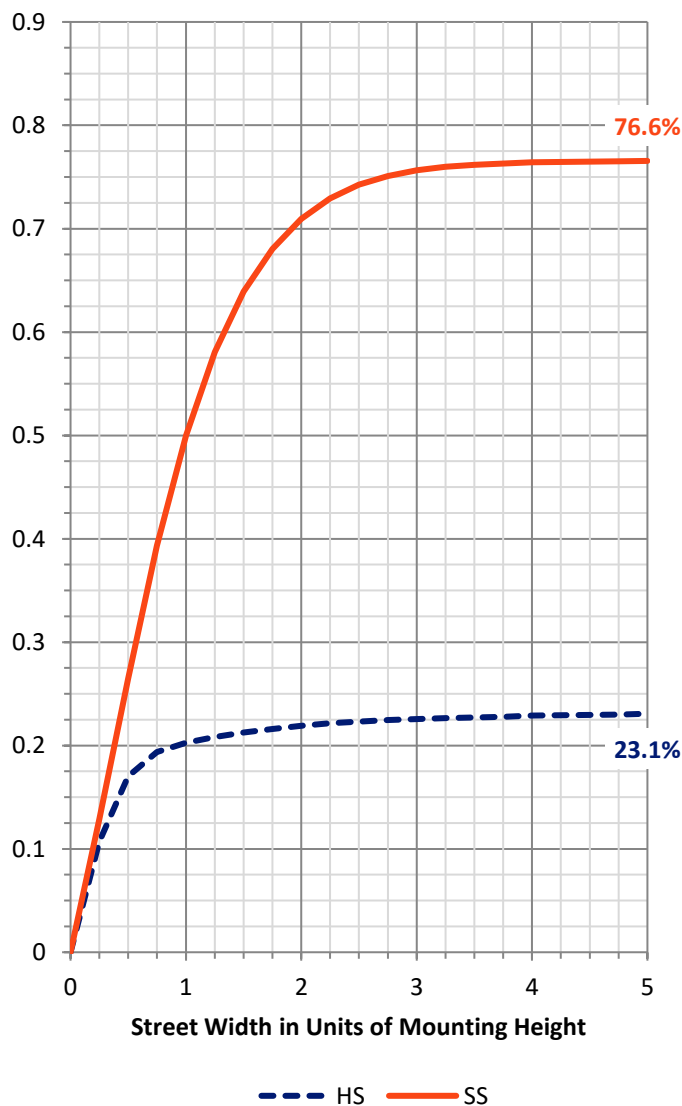
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1419.0	0.0	1419.0
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	4645.9	0.0	4645.9
	% Fixture	76.6	0.0	76.6
Total	Lumens	6065.0	0.0	6065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.5
10°-20°	287.5	4.7
20°-30°	507.0	8.4
30°-40°	777.2	12.8
40°-50°	1059.4	17.5
50°-60°	1253.6	20.7
60°-70°	1306.9	21.5
70°-80°	731.1	12.1
80°-90°	52.9	0.9
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°	6065.0	100.0
0°-180°	6065.0	100.0

Coefficient of Utilization



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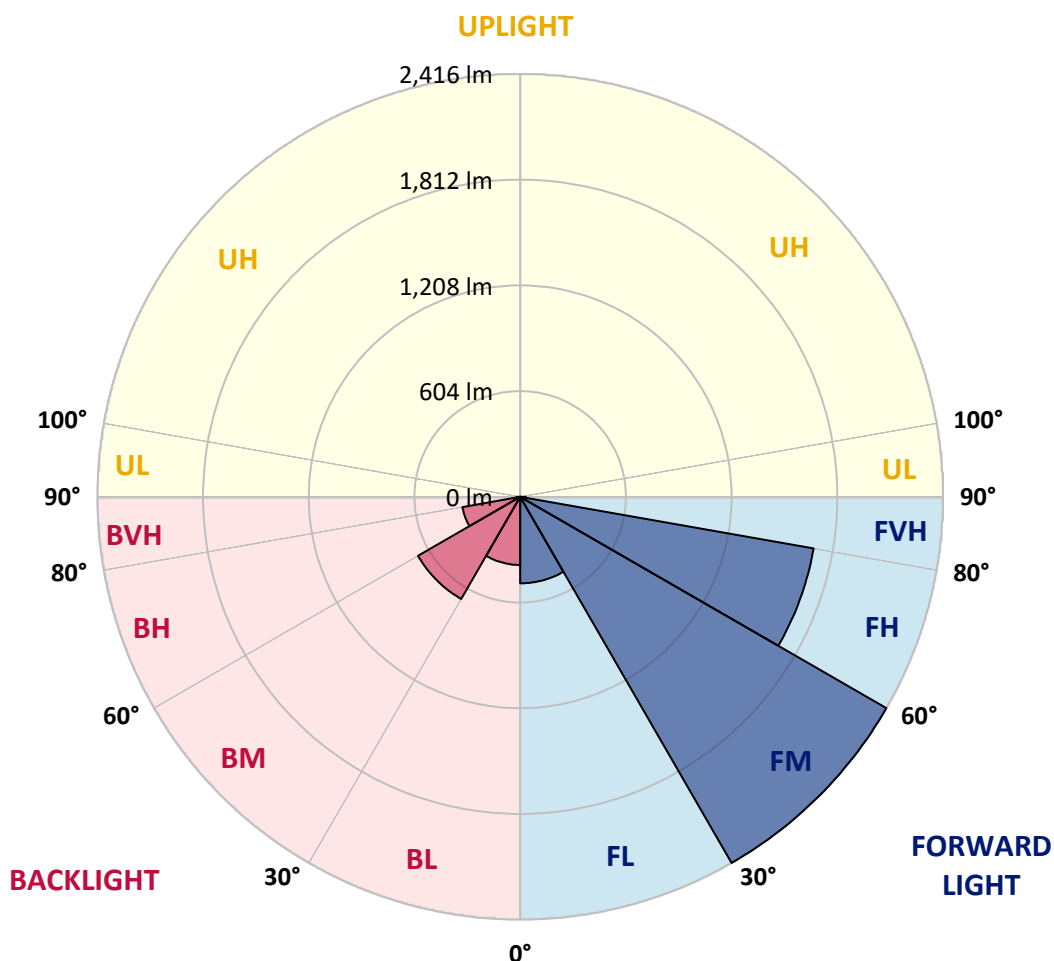
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.3	8.2			
FM (30°-60°)	2416.3	39.8			
FH (60°-80°)	1702.9	28.1			G1/1800
FVH (80°-90°)	32.4	0.5			G1/100
BL (0°-30°)	389.5	6.4	B1/500		
BM (30°-60°)	674.0	11.1	B1/1000		
BH (60°-80°)	335.1	5.5	B1/500		G1/500
BVH (80°-90°)	20.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7
2.5°	883.2	883.2	883.2	881.5	881.5	881.5	879.7	878.0	878.0	879.7	879.7
5°	905.6	905.6	903.8	902.1	898.7	895.2	891.8	890.1	890.1	890.1	891.8
7.5°	936.5	934.8	931.4	929.7	924.5	919.3	912.4	905.6	905.6	902.1	905.6
10°	974.4	974.4	969.3	965.8	958.9	945.2	934.8	924.5	922.8	919.3	924.5
12.5°	1022.6	1022.6	1019.2	1010.6	1000.2	983.0	964.1	946.9	945.2	940.0	950.3
15°	1081.2	1076.0	1074.3	1067.4	1048.5	1026.1	1000.2	977.9	977.9	969.3	981.3
17.5°	1146.6	1144.9	1143.1	1134.5	1112.2	1079.4	1045.0	1019.2	1014.0	1008.9	1015.7
20°	1225.8	1224.1	1222.3	1208.6	1182.7	1143.1	1101.8	1067.4	1063.9	1058.8	1053.6
22.5°	1317.0	1317.0	1310.1	1299.8	1263.7	1217.2	1167.2	1124.2	1124.2	1119.0	1094.9
25°	1404.8	1401.4	1397.9	1385.9	1356.6	1306.7	1248.2	1198.2	1191.3	1191.3	1150.0
27.5°	1485.7	1485.7	1490.9	1484.0	1454.8	1403.1	1344.6	1287.8	1284.3	1277.4	1213.7
30°	1570.1	1573.5	1575.3	1575.3	1561.5	1521.9	1458.2	1415.2	1422.0	1404.8	1308.4
32.5°	1633.8	1637.2	1659.6	1680.3	1668.2	1645.8	1609.7	1595.9	1602.8	1616.6	1511.6
35°	1694.1	1699.2	1730.2	1773.2	1792.2	1781.9	1787.0	1811.1	1826.6	1881.7	1790.5
37.5°	1738.8	1744.0	1771.5	1824.9	1881.7	1911.0	1959.2	2012.5	2041.8	2112.4	1981.6
40°	1750.9	1759.5	1816.3	1888.6	1974.7	2062.5	2121.0	2189.9	2226.0	2258.7	2110.7
42.5°	1709.5	1718.2	1792.2	1943.7	2064.2	2198.5	2262.2	2356.9	2386.1	2367.2	2210.5
45°	1683.7	1688.9	1764.6	1938.5	2141.7	2329.3	2391.3	2491.2	2508.4	2461.9	2296.6
47.5°	1647.6	1652.7	1733.6	1929.9	2203.6	2442.9	2486.0	2584.1	2606.5	2541.1	2362.0
50°	1594.2	1601.1	1694.1	1914.4	2245.0	2520.4	2566.9	2668.5	2680.5	2611.7	2430.9
52.5°	1530.5	1540.8	1639.0	1881.7	2272.5	2570.3	2630.6	2735.6	2747.7	2702.9	2504.9
55°	1453.0	1463.4	1568.4	1833.5	2263.9	2585.8	2658.1	2821.7	2842.4	2806.2	2568.6
57.5°	1377.3	1384.2	1492.6	1762.9	2215.7	2609.9	2740.8	2961.1	2988.7	2912.9	2620.3
60°	1286.0	1301.5	1406.5	1666.5	2141.7	2634.0	2847.5	3128.1	3154.0	3016.2	2659.9
62.5°	1191.3	1205.1	1298.1	1546.0	2026.3	2611.7	2928.4	3272.8	3288.3	3098.9	2673.6
65°	1081.2	1082.9	1169.0	1392.8	1861.0	2520.4	2935.3	3343.3	3358.8	3150.5	2649.5
67.5°	934.8	934.8	1007.1	1198.2	1639.0	2355.1	2873.3	3365.7	3388.1	3185.0	2591.0
70°	731.7	743.7	798.8	969.3	1356.6	2121.0	2794.2	3382.9	3403.6	3135.0	2458.4
72.5°	511.3	507.9	564.7	668.0	981.3	1692.3	2492.9	3129.9	3129.9	2880.2	2215.7
75°	156.7	175.6	201.4	270.3	447.6	1134.5	2041.8	2653.0	2687.4	2494.6	1826.6
77.5°	51.6	51.6	60.3	74.0	96.4	241.0	1020.9	1625.2	1652.7	1623.5	1131.1
80°	41.3	41.3	46.5	53.4	62.0	124.0	359.8	609.4	654.2	721.3	468.3
82.5°	29.3	29.3	31.0	32.7	31.0	49.9	94.7	161.8	165.3	179.0	151.5
85°	18.9	17.2	17.2	15.5	13.8	13.8	12.1	12.1	13.8	13.8	17.2
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.2	5.2	5.2	5.2
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°	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7
2.5°	881.5	883.2	888.3	891.8	895.2	898.7	900.4	902.1	902.1	903.8	903.8
5°	893.5	897.0	905.6	914.2	927.9	941.7	953.8	960.7	962.4	969.3	969.3
7.5°	909.0	914.2	934.8	950.3	971.0	986.5	1000.2	1007.1	1014.0	1017.5	1017.5
10°	933.1	940.0	960.7	977.9	995.1	1007.1	1015.7	1020.9	1022.6	1024.4	1024.4
12.5°	957.2	965.8	977.9	991.6	1002.0	1008.9	1014.0	1015.7	1015.7	1015.7	1015.7
15°	983.0	986.5	989.9	993.4	998.5	1000.2	1000.2	998.5	995.1	993.4	993.4
17.5°	1008.9	1005.4	1000.2	993.4	986.5	981.3	974.4	967.5	962.4	958.9	960.7
20°	1039.8	1029.5	1007.1	989.9	971.0	952.0	936.5	922.8	912.4	910.7	912.4
22.5°	1076.0	1055.3	1019.2	983.0	950.3	915.9	883.2	864.2	853.9	845.3	845.3
25°	1119.0	1086.3	1029.5	972.7	921.1	866.0	821.2	791.9	774.7	764.4	767.8
27.5°	1169.0	1127.6	1039.8	957.2	878.0	805.7	747.2	700.7	681.8	668.0	669.7
30°	1241.3	1175.9	1051.9	934.8	822.9	731.7	654.2	599.1	566.4	556.1	559.5
32.5°	1403.1	1279.1	1065.7	902.1	760.9	643.9	540.6	473.4	439.0	439.0	437.3
35°	1673.4	1494.3	1098.4	862.5	692.1	545.7	413.2	351.2	349.5	356.4	358.1
37.5°	1862.8	1692.3	1200.0	824.6	616.3	427.0	306.4	289.2	306.4	313.3	311.6
40°	1985.0	1811.1	1317.0	785.0	509.6	306.4	242.7	230.7	247.9	261.7	272.0
42.5°	2084.9	1893.8	1370.4	733.4	380.5	220.4	179.0	175.6	201.4	220.4	227.3
45°	2164.0	1969.5	1377.3	661.1	258.2	163.6	146.3	161.8	192.8	208.3	210.0
47.5°	2227.7	2031.5	1358.3	545.7	172.2	142.9	142.9	163.6	192.8	208.3	208.3
50°	2289.7	2083.1	1310.1	444.2	154.9	139.4	144.6	165.3	191.1	203.1	203.1
52.5°	2341.4	2117.6	1225.8	354.6	149.8	136.0	144.6	165.3	187.7	192.8	189.4
55°	2387.9	2131.3	1150.0	285.8	144.6	134.3	148.1	168.7	185.9	185.9	179.0
57.5°	2413.7	2098.6	1093.2	235.9	139.4	134.3	149.8	172.2	191.1	194.5	189.4
60°	2413.7	2052.1	1031.2	208.3	136.0	134.3	149.8	184.2	227.3	210.0	208.3
62.5°	2381.0	2002.2	938.3	185.9	130.8	136.0	151.5	204.9	277.2	208.3	199.7
65°	2324.2	1905.8	816.0	165.3	125.7	137.7	149.8	235.9	330.5	201.4	177.3
67.5°	2217.4	1752.6	664.5	144.6	118.8	134.3	146.3	216.9	203.1	167.0	149.8
70°	2033.2	1523.6	461.4	125.7	113.6	130.8	146.3	191.1	180.8	153.2	134.3
72.5°	1759.5	1249.9	247.9	103.3	99.9	124.0	142.9	175.6	154.9	125.7	113.6
75°	1351.5	888.3	151.5	80.9	82.6	110.2	132.6	167.0	148.1	120.5	105.0
77.5°	779.9	411.5	108.5	60.3	58.5	87.8	118.8	154.9	144.6	117.1	101.6
80°	285.8	170.4	74.0	44.8	39.6	63.7	93.0	125.7	137.7	115.3	103.3
82.5°	122.2	91.2	48.2	31.0	29.3	36.2	56.8	87.8	115.3	93.0	86.1
85°	17.2	17.2	17.2	15.5	17.2	22.4	24.1	43.0	63.7	34.4	34.4
87.5°	6.9	6.9	6.9	6.9	8.6	8.6	6.9	6.9	5.2	5.2	5.2
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)