

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: P233563

Luminaire Tested: **VERD-C026-D-U-T4-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C026-D-U-T4-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 790mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7015 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 62
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

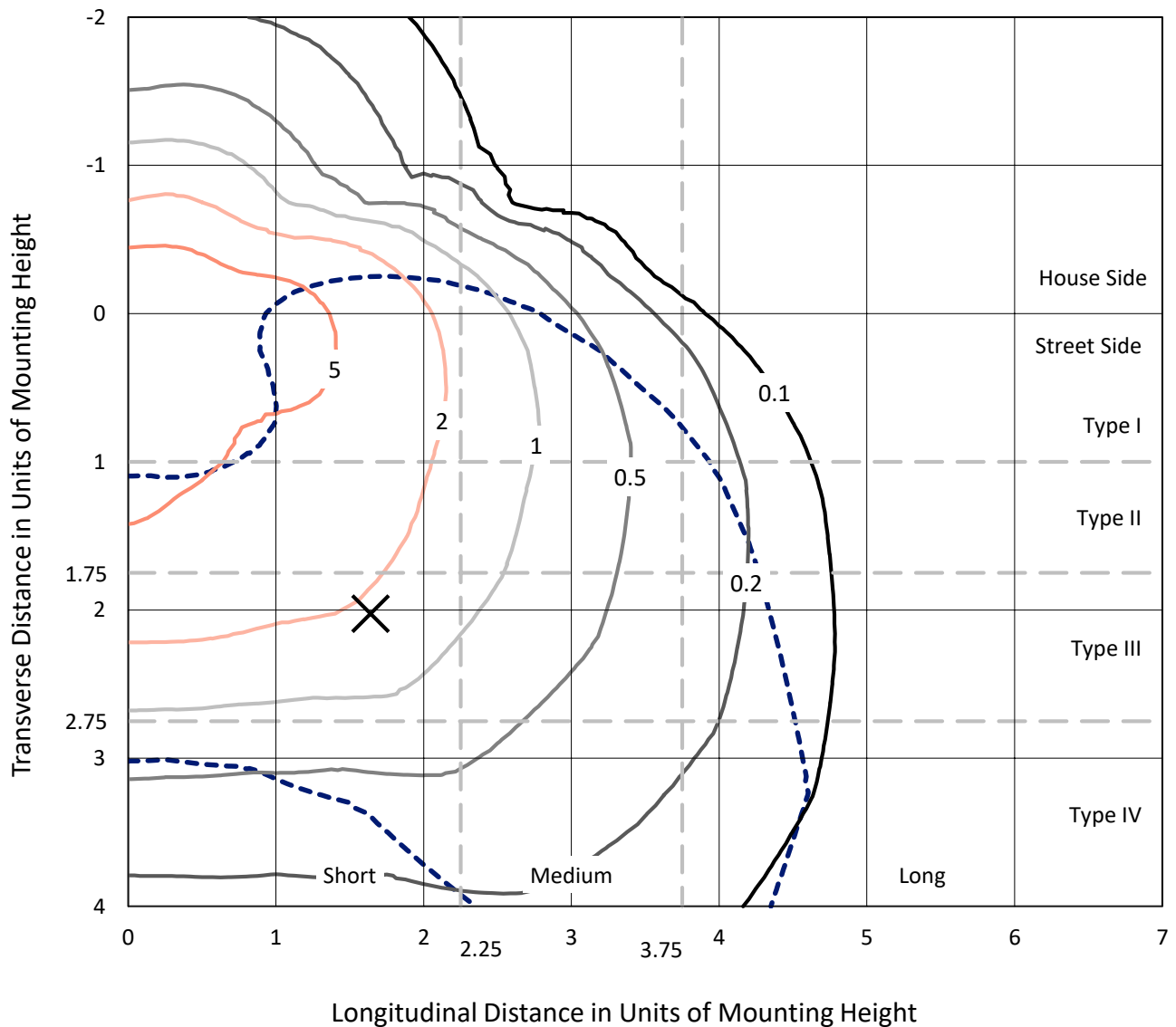


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

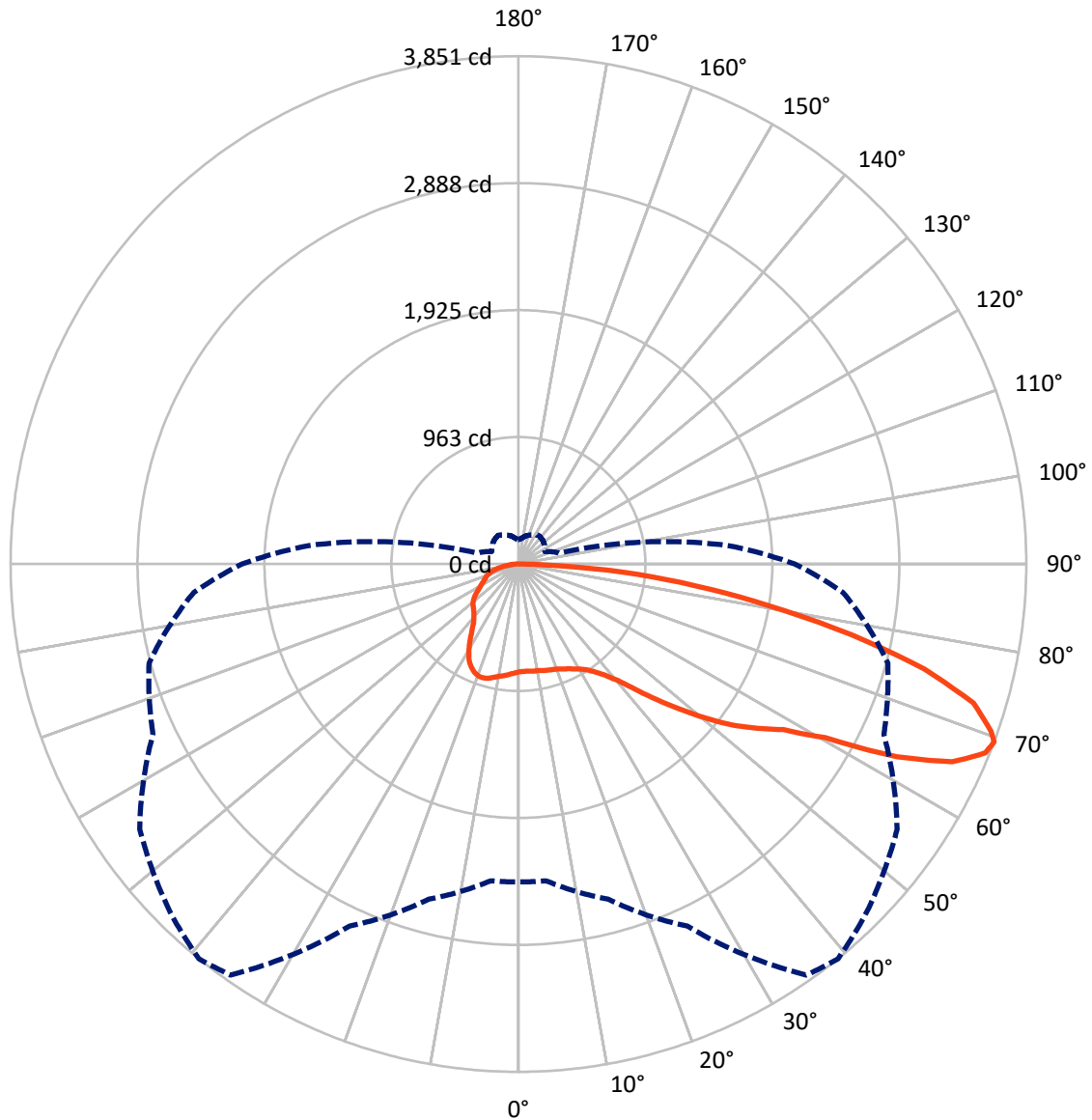


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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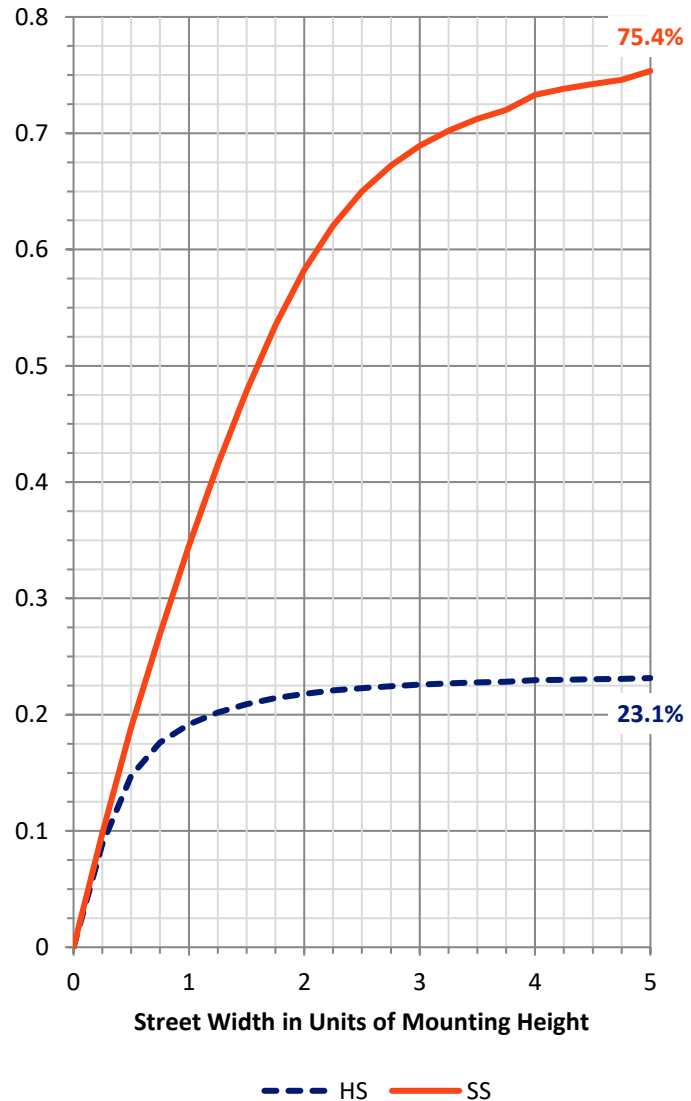
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1644.4	0.0	1644.4
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	5370.6	0.0	5370.6
	% Fixture	76.6	0.0	76.6
Total	Lumens	7015.0	0.0	7015.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	1.1
10°-20°	245.4	3.5
20°-30°	413.2	5.9
30°-40°	598.6	8.5
40°-50°	967.5	13.8
50°-60°	1416.5	20.2
60°-70°	1772.9	25.3
70°-80°	1267.4	18.1
80°-90°	254.1	3.6
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°	7015.0	100.0
0°-180°	7015.0	100.0



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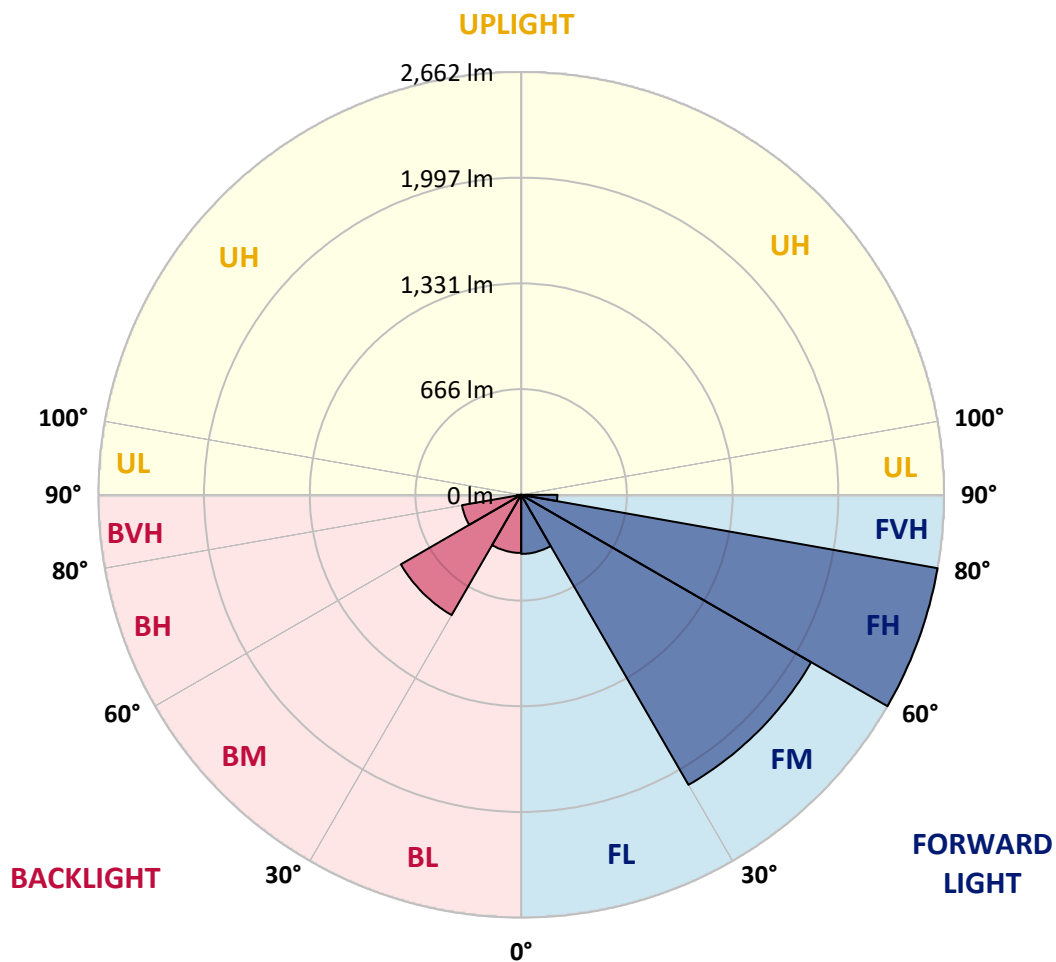
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.2	5.3			
FM	(30°-60°)	2108.1	30.1			
FH	(60°-80°)	2662.2	37.9			G2/5000
FVH	(80°-90°)	228.1	3.3			G3/500
BL	(0°-30°)	365.8	5.2	B1/500		
BM	(30°-60°)	874.5	12.5	B1/1000		
BH	(60°-80°)	378.2	5.4	B1/500		G1/500
BVH	(80°-90°)	26.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1
2.5°	831.3	830.0	827.5	817.1	815.8	815.2	816.5	812.6	811.9	813.2	811.9
5°	832.0	830.7	827.5	818.4	817.1	815.8	816.5	813.2	813.9	817.1	817.1
7.5°	833.3	832.0	828.7	819.1	821.6	820.3	822.9	818.4	818.4	821.0	821.6
10°	830.0	829.4	827.5	820.3	824.2	821.6	824.2	824.9	827.5	829.4	828.7
12.5°	821.6	821.6	821.6	818.4	829.4	828.7	833.3	837.8	844.3	847.5	849.4
15°	816.5	815.8	820.3	819.7	833.3	835.2	843.0	854.6	864.3	872.7	875.3
17.5°	821.6	821.6	827.5	826.2	839.7	841.0	849.4	866.2	882.4	898.6	905.7
20°	827.5	828.1	835.2	837.2	850.1	849.4	857.8	878.5	900.5	924.4	936.7
22.5°	845.6	844.9	850.7	846.8	861.7	864.3	871.4	889.5	920.5	950.9	971.0
25°	859.1	861.1	866.9	864.3	876.6	879.8	891.5	908.9	945.8	982.0	1017.5
27.5°	872.1	875.9	880.5	879.8	896.6	900.5	909.6	936.7	979.4	1022.7	1072.5
30°	891.5	890.2	893.4	899.2	921.2	923.8	934.8	967.7	1019.4	1075.7	1142.3
32.5°	917.3	916.0	919.3	924.4	950.9	957.4	972.3	1007.8	1073.1	1141.0	1222.4
35°	958.0	961.3	963.9	970.3	996.2	1005.2	1025.3	1070.5	1146.2	1254.8	1371.1
37.5°	1099.6	1092.5	1078.3	1052.4	1059.5	1069.9	1098.3	1163.0	1272.9	1457.1	1563.8
40°	1320.7	1312.3	1267.7	1192.1	1157.8	1160.4	1188.2	1276.1	1426.1	1695.0	1793.2
42.5°	1528.9	1518.5	1465.5	1371.1	1303.2	1295.5	1298.1	1399.6	1594.1	1932.9	1985.2
45°	1725.4	1730.5	1649.7	1577.3	1499.8	1464.2	1453.2	1528.9	1781.0	2139.1	2155.3
47.5°	1913.5	1917.4	1826.2	1756.4	1681.4	1640.0	1618.7	1677.5	1952.9	2305.9	2291.0
50°	2105.5	2115.8	1991.1	1931.6	1862.4	1832.7	1812.0	1850.8	2143.0	2465.6	2419.7
52.5°	2376.3	2333.0	2169.5	2085.4	2036.3	2027.3	2005.9	2037.6	2344.7	2606.5	2510.8
55°	2677.6	2585.1	2413.2	2266.4	2198.6	2198.6	2179.8	2216.7	2552.8	2711.9	2585.1
57.5°	2775.2	2784.3	2724.8	2565.1	2382.8	2368.6	2350.5	2400.9	2731.2	2806.2	2612.9
60°	2945.9	2971.1	3017.0	2883.8	2794.0	2673.1	2563.2	2590.3	2885.1	2883.8	2642.7
62.5°	3030.6	3054.5	3198.0	3126.2	3210.9	3219.3	3013.7	2804.3	2998.9	2922.6	2656.9
65°	2950.4	2967.2	3158.5	3252.9	3498.6	3615.6	3514.1	3092.0	3059.0	2906.4	2603.9
67.5°	2687.3	2719.0	2877.3	3165.0	3755.2	3820.5	3725.5	3486.9	3084.9	2911.6	2561.2
69°	2410.6	2411.3	2631.0	3029.9	3805.6	3850.9	3734.5	3505.7	3057.7	2899.3	2470.1
70°	2254.8	2271.0	2433.9	2912.9	3786.9	3801.8	3712.6	3505.0	3039.0	2895.4	2383.5
72.5°	1759.6	1751.2	1913.5	2435.8	3574.9	3607.8	3509.6	3406.1	3023.4	2728.7	2016.3
75°	1230.2	1256.0	1415.1	1845.6	3080.3	3179.2	3179.2	3272.3	2783.0	2331.7	1457.7
77.5°	915.4	919.3	1046.6	1409.9	2478.5	2581.3	2675.7	2753.9	2175.3	1597.4	651.6
80°	619.9	625.8	742.1	1040.1	1836.6	1930.9	2080.3	1894.7	1294.2	552.7	74.3
82.5°	390.5	398.2	490.7	730.5	1309.1	1351.7	1397.6	1069.9	431.2	64.0	47.2
85°	232.1	233.4	296.1	466.7	798.4	801.0	751.8	492.6	115.7	38.1	29.7
87.5°	97.0	102.1	129.3	206.9	234.0	184.9	115.1	39.4	17.5	15.5	10.3
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°	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1
2.5°	808.1	815.2	813.9	815.8	818.4	823.6	829.4	826.8	830.0	837.2	837.2
5°	815.2	821.0	822.9	826.8	830.0	835.2	839.1	837.8	844.9	855.3	855.3
7.5°	821.0	825.5	832.0	836.5	839.7	850.1	854.0	851.4	856.5	868.8	869.5
10°	829.4	833.9	843.6	848.1	854.6	859.8	864.9	864.3	869.5	880.5	882.4
12.5°	850.1	853.3	866.9	873.4	873.4	879.8	875.9	869.5	872.1	878.5	879.8
15°	877.2	881.8	899.2	902.4	899.2	900.5	891.5	870.8	860.4	862.4	863.0
17.5°	908.3	916.0	936.1	931.5	927.7	918.0	894.7	863.7	832.6	821.0	822.9
20°	941.2	950.9	974.2	964.5	950.3	925.1	887.6	834.6	786.7	758.9	757.6
22.5°	979.4	991.7	1013.6	996.8	965.1	921.2	863.7	799.0	738.2	694.9	692.3
25°	1031.7	1045.3	1053.1	1019.4	967.7	907.0	829.4	750.5	674.2	622.5	618.7
27.5°	1091.2	1098.3	1082.8	1032.4	955.5	876.6	786.7	689.1	605.1	562.4	556.6
30°	1157.1	1151.3	1102.8	1025.9	923.8	828.7	720.1	610.9	543.7	509.4	504.2
32.5°	1233.4	1215.3	1118.4	1007.8	881.8	766.0	647.7	561.1	507.5	473.2	470.6
35°	1358.8	1307.1	1143.6	980.0	826.2	692.3	581.2	518.5	476.4	433.8	427.3
37.5°	1540.5	1442.9	1180.4	954.2	766.0	621.2	530.7	484.2	447.3	399.5	390.5
40°	1729.3	1602.5	1241.2	925.7	709.8	568.9	502.9	470.0	433.8	388.5	376.2
42.5°	1901.9	1754.5	1312.3	890.2	651.0	526.9	489.4	466.1	429.9	387.2	377.5
45°	2058.3	1897.3	1385.3	849.4	586.3	493.2	478.4	459.0	422.1	381.4	373.6
47.5°	2190.2	2018.9	1459.0	802.2	524.3	472.6	466.7	446.0	411.8	372.4	365.9
50°	2299.4	2106.1	1501.1	752.5	473.2	457.0	449.9	424.1	389.2	352.3	348.4
52.5°	2380.2	2160.4	1539.2	726.0	433.1	431.8	427.3	402.1	368.5	330.3	322.6
55°	2436.5	2205.0	1522.4	705.3	390.5	400.2	397.6	382.1	353.6	309.0	302.5
57.5°	2439.7	2208.9	1486.2	582.5	348.4	362.0	366.5	369.1	337.4	298.0	290.3
60°	2436.5	2180.5	1419.0	427.3	307.7	323.9	340.7	340.7	318.7	279.9	274.1
62.5°	2421.6	2124.2	1262.5	304.5	275.4	296.7	318.7	309.0	290.3	259.2	253.4
65°	2353.7	2030.5	987.8	248.2	261.8	281.2	291.5	278.0	254.1	221.7	219.1
67.5°	2230.2	1815.9	571.5	227.5	250.2	267.6	276.0	255.3	232.7	201.7	200.4
69°	2094.5	1598.7	321.9	222.4	243.1	258.6	265.7	243.1	221.1	191.3	185.5
70°	1973.0	1404.7	209.4	217.9	236.0	252.8	257.9	234.7	214.0	183.6	179.7
72.5°	1494.6	846.2	140.9	199.1	216.6	229.5	237.2	215.3	192.0	161.6	153.9
75°	816.5	230.1	124.1	170.7	192.6	210.1	212.0	184.2	150.6	119.6	116.4
77.5°	159.0	78.9	106.7	140.9	153.2	173.9	172.6	153.9	130.6	101.5	97.6
80°	60.1	56.9	89.2	100.8	108.0	129.9	137.7	124.1	108.6	69.2	59.5
82.5°	40.7	42.0	66.6	59.5	65.9	76.9	97.0	94.4	86.0	47.2	42.0
85°	28.4	33.0	36.8	25.2	32.3	48.5	64.0	62.1	53.0	33.0	29.7
87.5°	8.4	9.1	10.3	12.9	20.0	36.2	52.4	43.3	29.1	24.6	21.3
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)