

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: P507629

Luminaire Tested: **VERD-S-CA1-60-727-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-60-727-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1150mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7309 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.3
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

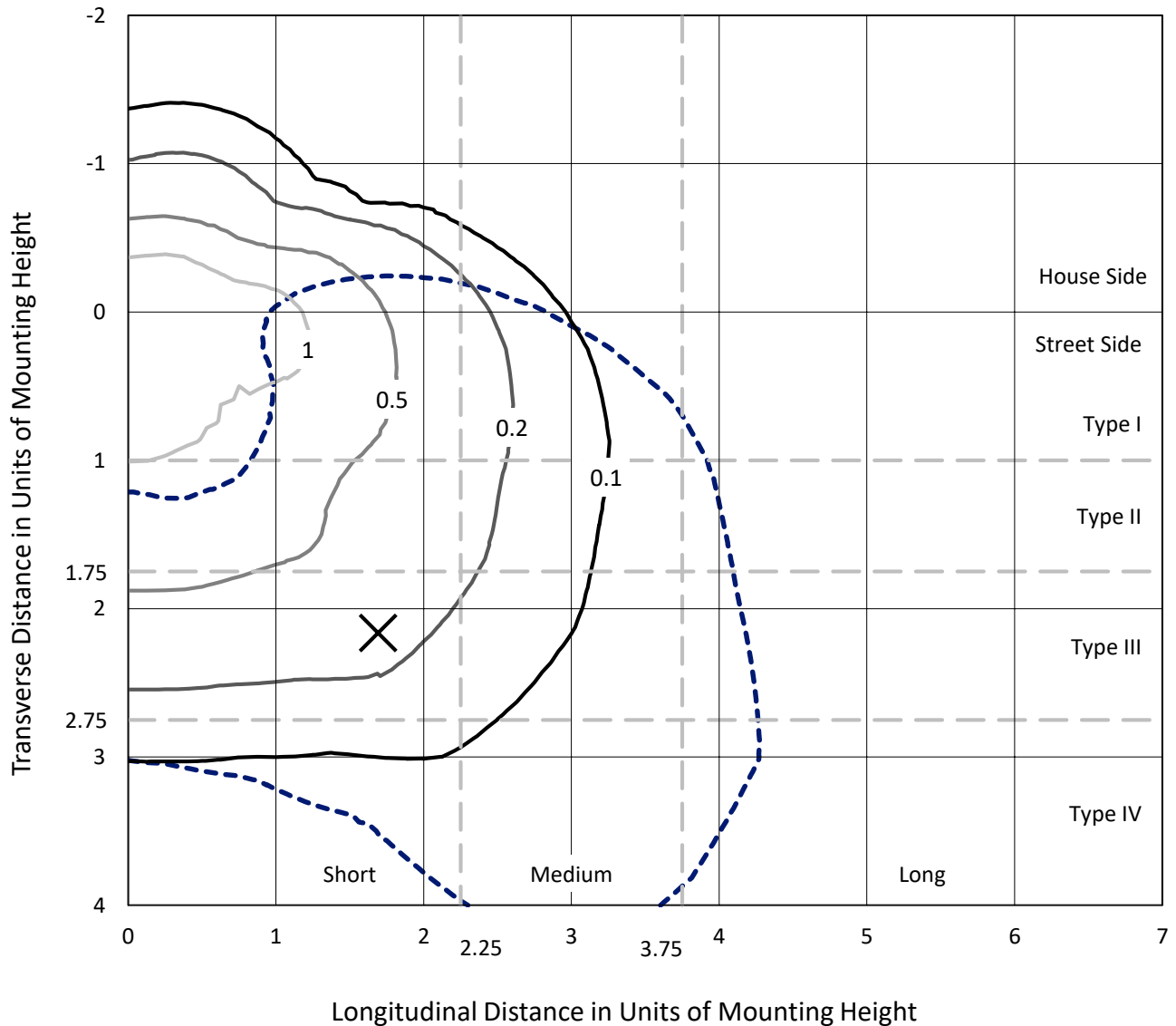


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Iso-Footcandle Lines of Horizontal Illumination

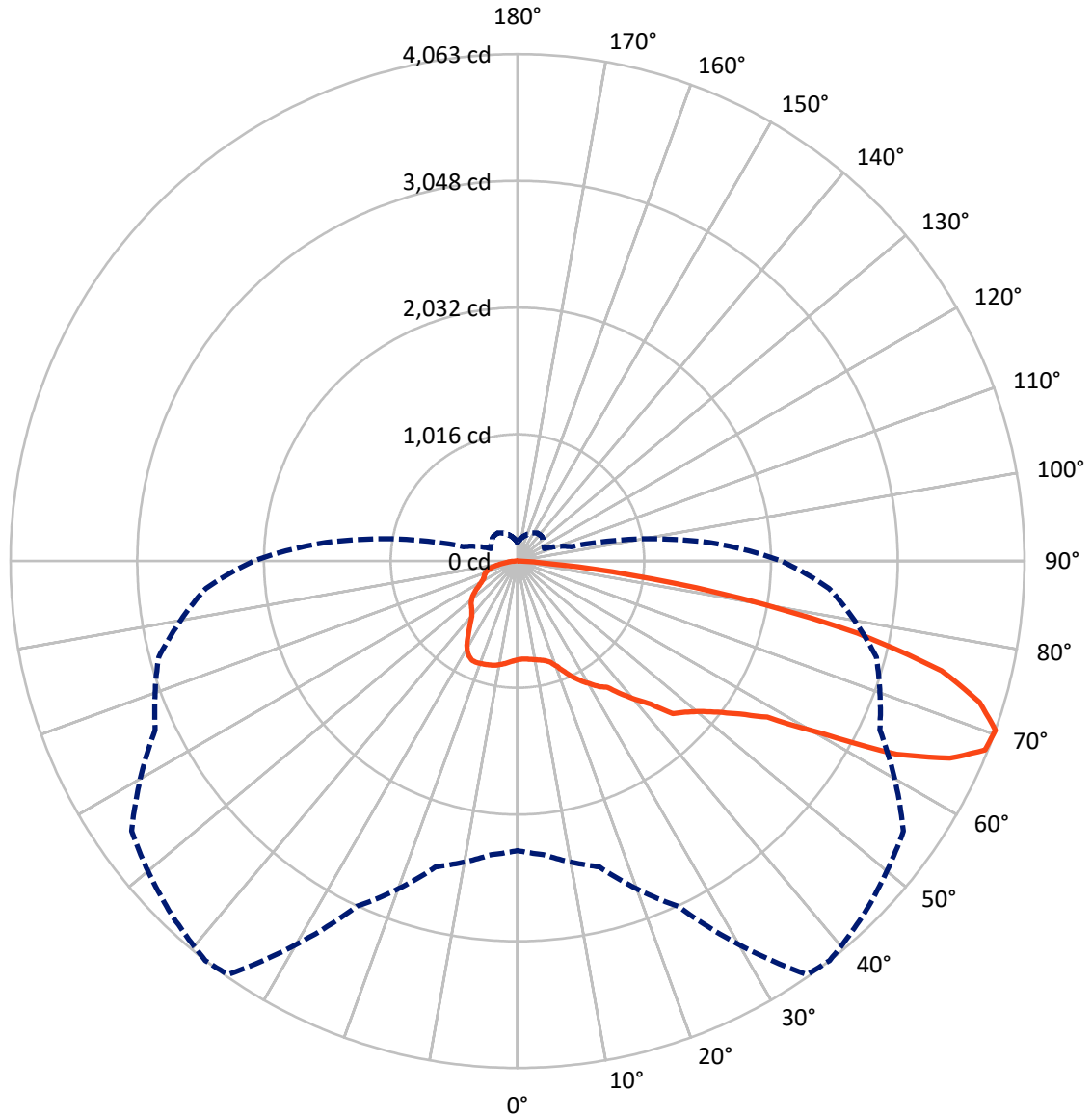
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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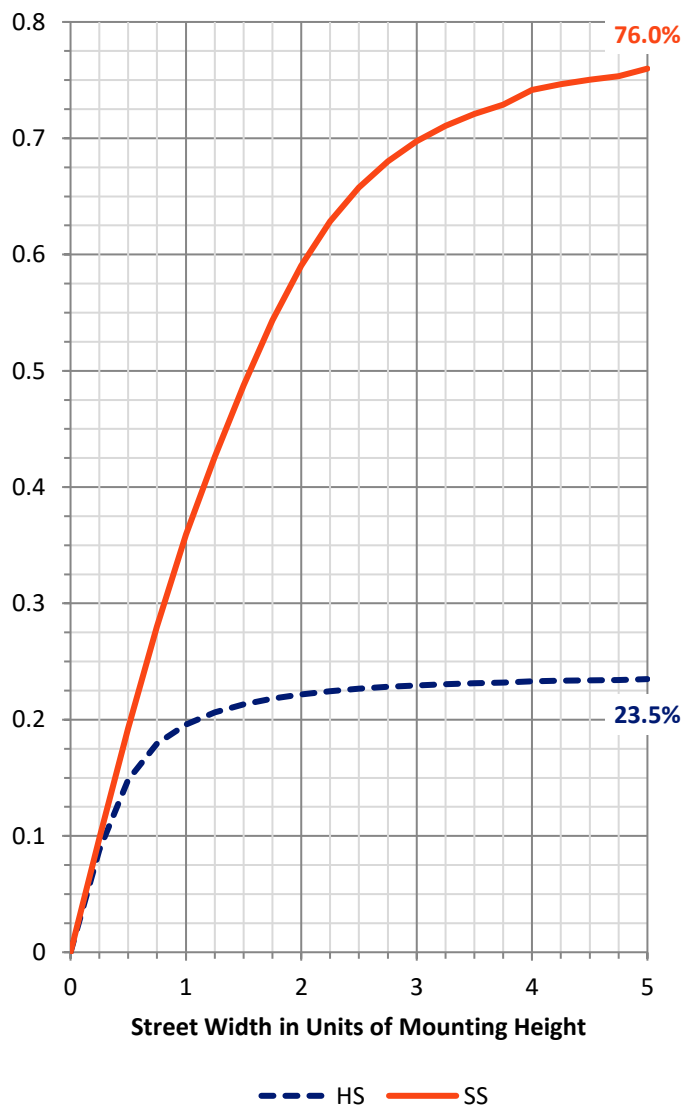
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1736.0	0.0	1736.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5573.1	0.0	5573.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	7309.0	0.0	7309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.1
10°-20°	242.7	3.3
20°-30°	450.2	6.2
30°-40°	697.1	9.5
40°-50°	1032.9	14.1
50°-60°	1439.2	19.7
60°-70°	1848.3	25.3
70°-80°	1352.2	18.5
80°-90°	169.4	2.3
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°	7309.0	100.0
0°-180°	7309.0	100.0

Coefficient of Utilization



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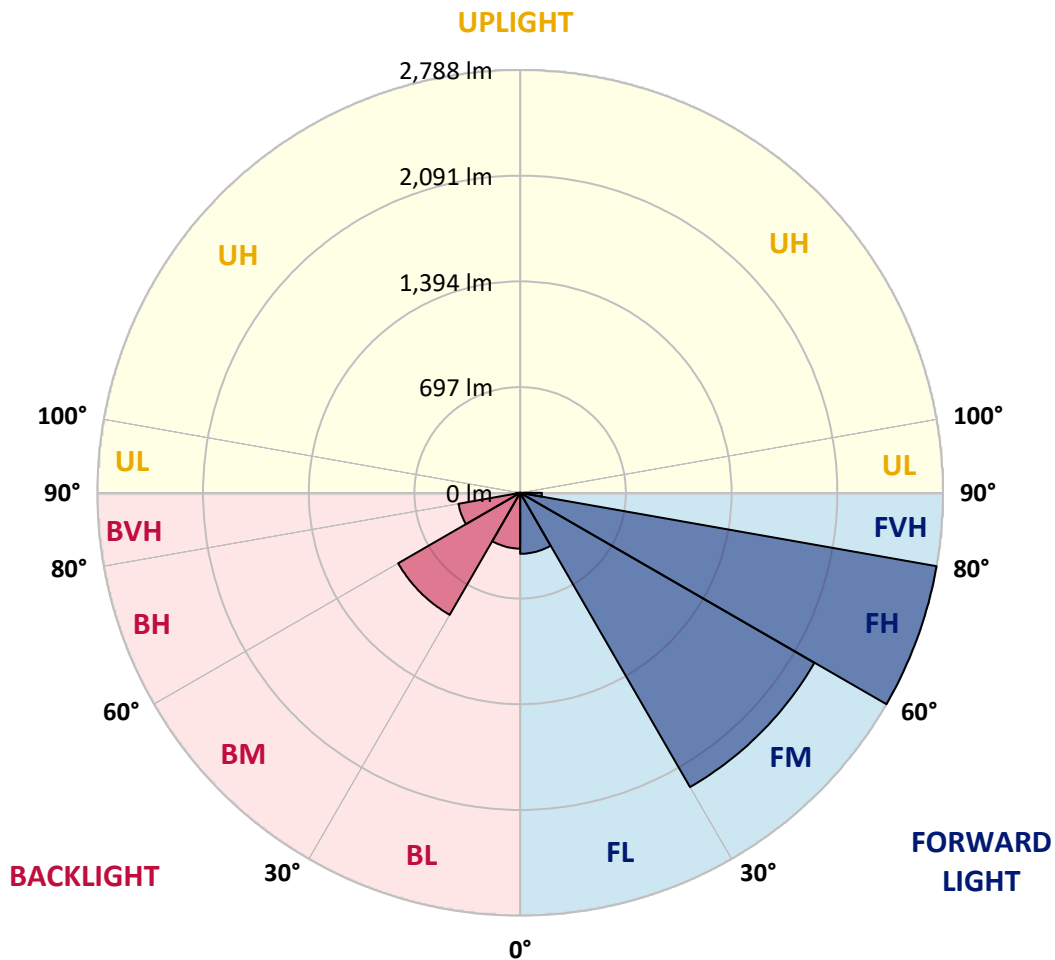
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.2	5.5			
FM	(30°-60°)	2240.0	30.6			
FH	(60°-80°)	2787.7	38.1			G2/5000
FVH	(80°-90°)	143.1	2.0			G2/225
BL	(0°-30°)	367.7	5.0	B1/500		
BM	(30°-60°)	929.2	12.7	B1/1000		
BH	(60°-80°)	412.8	5.6	B1/500		G1/500
BVH	(80°-90°)	26.3	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8
2.5°	787.7	787.7	787.7	785.6	785.6	785.6	783.5	783.5	785.6	787.7	787.7
5°	793.9	793.9	791.8	791.8	789.8	789.8	789.8	787.7	787.7	787.7	791.8
7.5°	796.0	796.0	796.0	796.0	796.0	796.0	798.1	796.0	796.0	796.0	800.2
10°	796.0	796.0	798.1	798.1	802.3	804.4	806.4	810.6	810.6	810.6	812.7
12.5°	800.2	800.2	802.3	804.4	810.6	814.8	818.9	825.2	827.3	827.3	829.4
15°	808.5	808.5	810.6	816.9	825.2	827.3	833.5	841.9	850.2	852.3	854.4
17.5°	841.9	841.9	841.9	841.9	850.2	852.3	860.6	873.1	881.5	885.6	891.9
20°	908.5	910.6	906.5	904.4	900.2	900.2	900.2	906.5	916.9	931.5	941.9
22.5°	994.0	994.0	994.0	977.3	966.9	964.8	964.8	962.7	971.1	985.6	1000.2
25°	1060.7	1062.7	1060.7	1046.1	1033.6	1029.4	1029.4	1035.7	1035.7	1048.2	1064.8
27.5°	1114.8	1119.0	1112.8	1100.3	1089.8	1087.8	1089.8	1108.6	1119.0	1127.3	1148.2
30°	1173.2	1175.3	1160.7	1152.3	1146.1	1141.9	1144.0	1171.1	1206.5	1216.9	1252.4
32.5°	1281.5	1281.5	1260.7	1212.8	1196.1	1198.2	1198.2	1233.6	1281.5	1329.5	1375.3
35°	1383.7	1381.6	1362.8	1321.1	1258.6	1244.0	1252.4	1289.9	1364.9	1446.2	1527.4
37.5°	1504.5	1500.3	1483.7	1425.3	1373.2	1350.3	1304.5	1354.5	1446.2	1606.6	1690.0
40°	1640.0	1633.7	1596.2	1537.9	1469.1	1458.7	1419.1	1427.4	1548.3	1775.4	1871.3
42.5°	1715.0	1710.8	1685.8	1637.9	1587.9	1567.0	1533.7	1523.3	1685.8	1994.2	2042.1
45°	1785.8	1794.2	1794.2	1771.2	1750.4	1746.2	1723.3	1731.7	1862.9	2173.4	2192.2
47.5°	1829.6	1837.9	1810.8	1806.7	1806.7	1808.8	1831.7	1887.9	2023.4	2342.2	2323.5
50°	1960.9	1954.6	1846.3	1862.9	1881.7	1894.2	1944.2	2033.8	2246.4	2494.3	2438.1
52.5°	2198.4	2142.2	2013.0	1975.5	1985.9	2010.9	2077.6	2194.3	2473.5	2629.8	2538.1
55°	2492.2	2458.9	2342.2	2175.5	2121.3	2163.0	2233.8	2352.6	2648.5	2756.9	2617.3
57.5°	2690.2	2702.7	2717.3	2602.7	2350.5	2361.0	2408.9	2508.9	2823.6	2879.8	2679.8
60°	2890.3	2904.8	2986.1	2956.9	2898.6	2802.7	2627.7	2675.6	2954.8	2961.1	2725.6
62.5°	3048.6	3059.0	3179.9	3246.6	3398.7	3411.2	3138.2	2886.1	3092.4	3025.7	2744.4
65°	2969.4	2988.2	3169.5	3354.9	3773.8	3809.2	3719.6	3157.0	3198.7	3050.7	2729.8
67.5°	2702.7	2729.8	2921.5	3315.3	4013.4	4040.5	3953.0	3667.5	3236.2	3040.3	2658.9
70°	2321.4	2361.0	2538.1	3054.9	4046.8	4063.4	3955.1	3775.9	3204.9	2977.8	2506.8
72.5°	1887.9	1919.2	2098.4	2619.4	3844.6	3871.7	3838.4	3686.3	3138.2	2856.9	2200.5
75°	1446.2	1448.3	1637.9	2052.6	3402.9	3511.2	3567.5	3513.3	2956.9	2513.1	1694.1
77.5°	912.7	939.8	1133.6	1554.5	2673.5	2784.0	2809.0	2742.3	2069.2	1542.0	729.3
80°	410.5	452.2	650.2	1050.2	1819.2	1815.0	1829.6	1665.0	1102.3	489.7	81.3
82.5°	148.0	156.3	273.0	527.2	881.5	904.4	894.0	768.9	298.0	68.8	50.0
85°	62.5	66.7	89.6	141.7	200.0	212.5	183.4	139.6	47.9	39.6	33.3
87.5°	4.2	4.2	4.2	4.2	4.2	6.3	6.3	6.3	6.3	8.3	10.4
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°	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8
2.5°	787.7	789.8	791.8	796.0	796.0	798.1	800.2	802.3	802.3	802.3	802.3
5°	793.9	796.0	798.1	804.4	808.5	810.6	814.8	816.9	818.9	818.9	818.9
7.5°	802.3	804.4	808.5	814.8	821.0	825.2	829.4	831.4	833.5	833.5	833.5
10°	814.8	818.9	825.2	833.5	839.8	839.8	841.9	843.9	846.0	846.0	846.0
12.5°	831.4	835.6	846.0	856.4	858.5	856.4	852.3	852.3	850.2	848.1	848.1
15°	858.5	860.6	875.2	883.5	877.3	866.9	858.5	850.2	843.9	839.8	839.8
17.5°	896.0	902.3	916.9	916.9	900.2	881.5	860.6	839.8	823.1	816.9	814.8
20°	950.2	958.6	971.1	958.6	931.5	898.1	860.6	827.3	793.9	773.1	766.8
22.5°	1010.7	1021.1	1025.2	998.1	958.6	912.7	862.7	810.6	756.4	710.6	698.1
25°	1081.5	1087.8	1073.2	1029.4	975.2	916.9	856.4	787.7	704.3	643.9	637.6
27.5°	1164.9	1158.6	1119.0	1052.3	979.4	908.5	833.5	741.8	637.6	591.8	585.6
30°	1254.5	1231.5	1158.6	1064.8	966.9	883.5	793.9	673.1	587.6	550.1	546.0
32.5°	1360.7	1314.9	1196.1	1066.9	944.0	839.8	729.3	616.8	554.3	512.6	508.5
35°	1479.5	1408.7	1229.5	1054.4	898.1	779.3	652.2	575.1	518.9	479.3	470.9
37.5°	1640.0	1535.8	1271.1	1027.3	839.8	702.2	596.0	531.4	483.4	439.7	433.4
40°	1804.6	1681.6	1329.5	996.1	775.2	639.7	548.0	500.1	458.4	408.4	398.0
42.5°	1969.2	1827.5	1408.7	958.6	710.6	591.8	527.2	495.9	445.9	393.8	383.4
45°	2104.7	1952.5	1483.7	914.8	646.0	548.0	514.7	487.6	437.6	381.3	368.8
47.5°	2221.3	2056.7	1548.3	875.2	583.5	514.7	504.3	473.0	425.1	368.8	356.3
50°	2319.3	2140.1	1600.4	841.9	531.4	491.8	483.4	445.9	395.9	348.0	339.7
52.5°	2404.7	2200.5	1623.3	831.4	479.3	464.7	450.1	412.6	366.8	323.0	310.5
55°	2461.0	2246.4	1619.1	831.4	429.3	427.2	410.5	381.3	348.0	312.6	300.1
57.5°	2504.7	2267.2	1587.9	710.6	387.6	379.3	368.8	356.3	335.5	295.9	283.4
60°	2525.6	2254.7	1521.2	516.8	345.9	331.3	339.7	335.5	314.7	260.5	252.1
62.5°	2513.1	2217.2	1371.2	377.2	302.2	300.1	312.6	304.2	264.6	216.7	212.5
65°	2465.2	2123.4	1179.4	283.4	277.1	291.7	298.0	281.3	243.8	200.0	183.4
67.5°	2342.2	1942.1	858.5	254.2	268.8	285.5	289.7	266.7	229.2	187.5	166.7
70°	2115.1	1600.4	445.9	235.5	256.3	277.1	275.1	245.9	208.4	170.9	145.9
72.5°	1715.0	1135.7	168.8	210.5	237.6	258.4	254.2	220.9	148.0	106.3	95.9
75°	1112.8	543.9	145.9	181.3	212.5	231.3	233.4	200.0	129.2	89.6	77.1
77.5°	381.3	100.0	118.8	150.0	183.4	208.4	202.1	160.5	100.0	66.7	60.4
80°	64.6	66.7	91.7	106.3	127.1	166.7	141.7	114.6	79.2	47.9	39.6
82.5°	45.8	56.3	64.6	62.5	87.5	110.4	95.9	77.1	52.1	37.5	33.3
85°	33.3	37.5	35.4	37.5	50.0	72.9	66.7	54.2	37.5	27.1	22.9
87.5°	12.5	12.5	16.7	20.8	31.3	45.8	39.6	16.7	14.6	12.5	12.5
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)