

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: P507557

Luminaire Tested: **VERD-S-CA1-40-750-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507557
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-CA1-40-750-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 760mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6150 lumens
Efficiency: N/A
Efficacy: 141.7 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

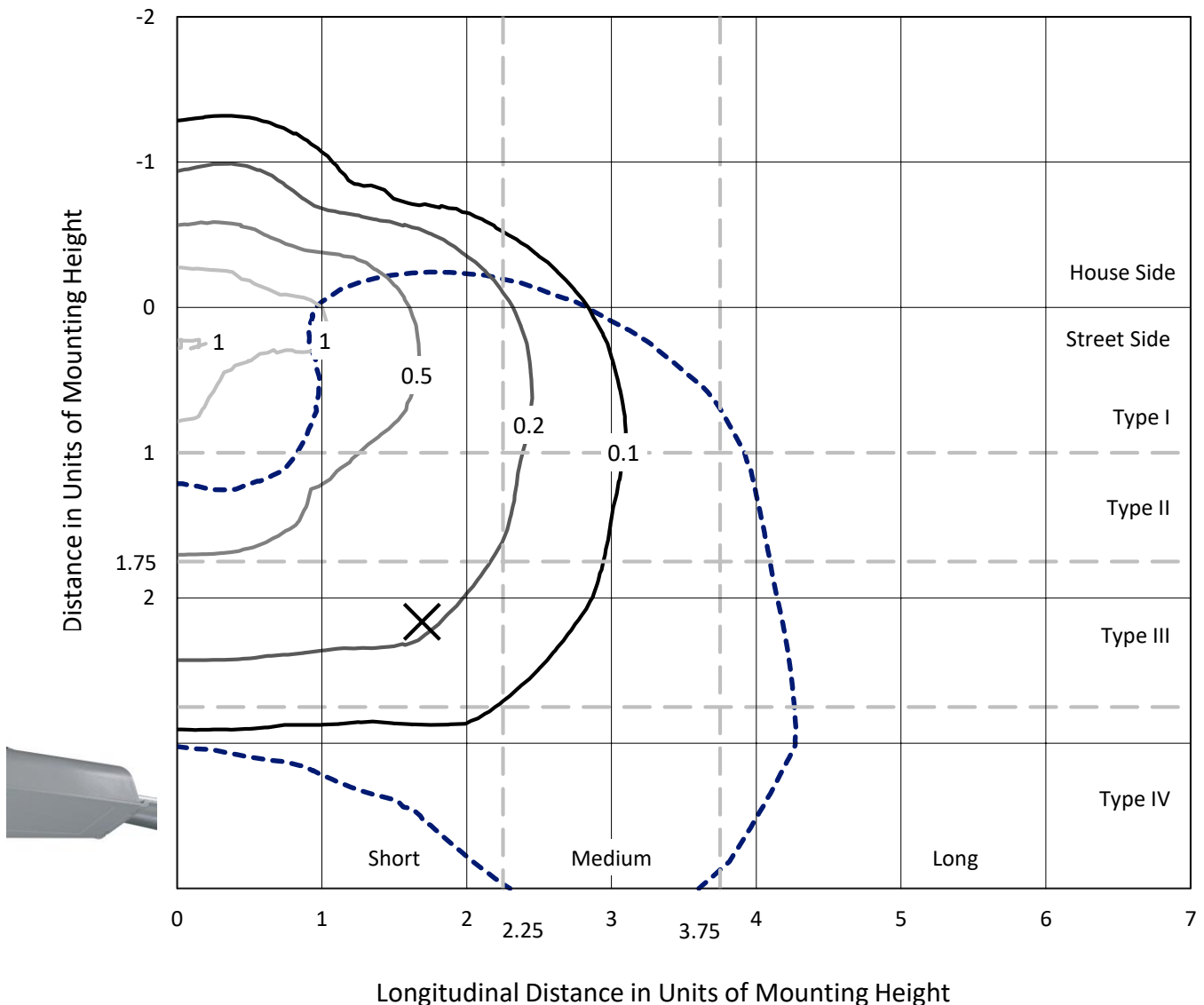
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

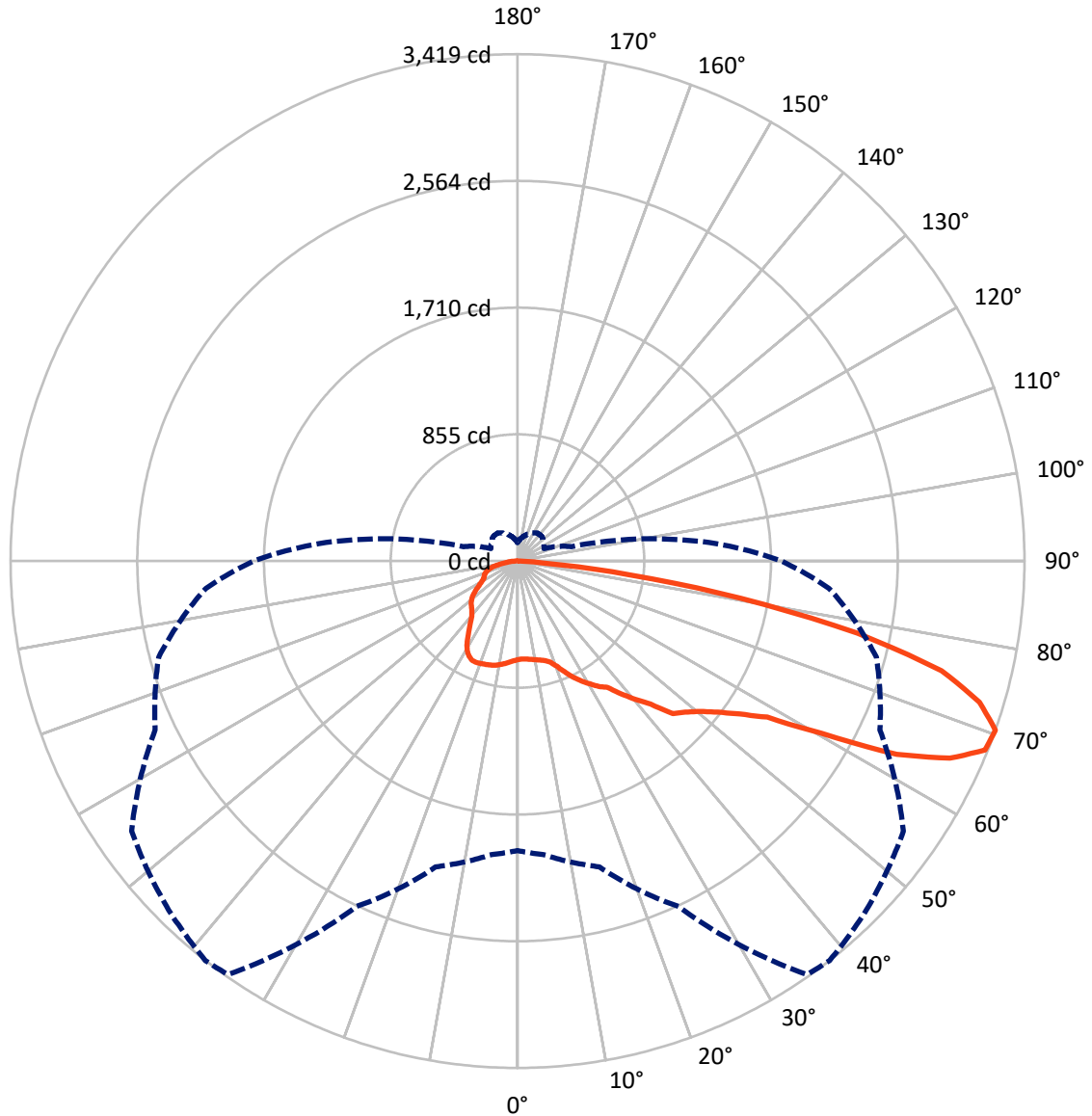
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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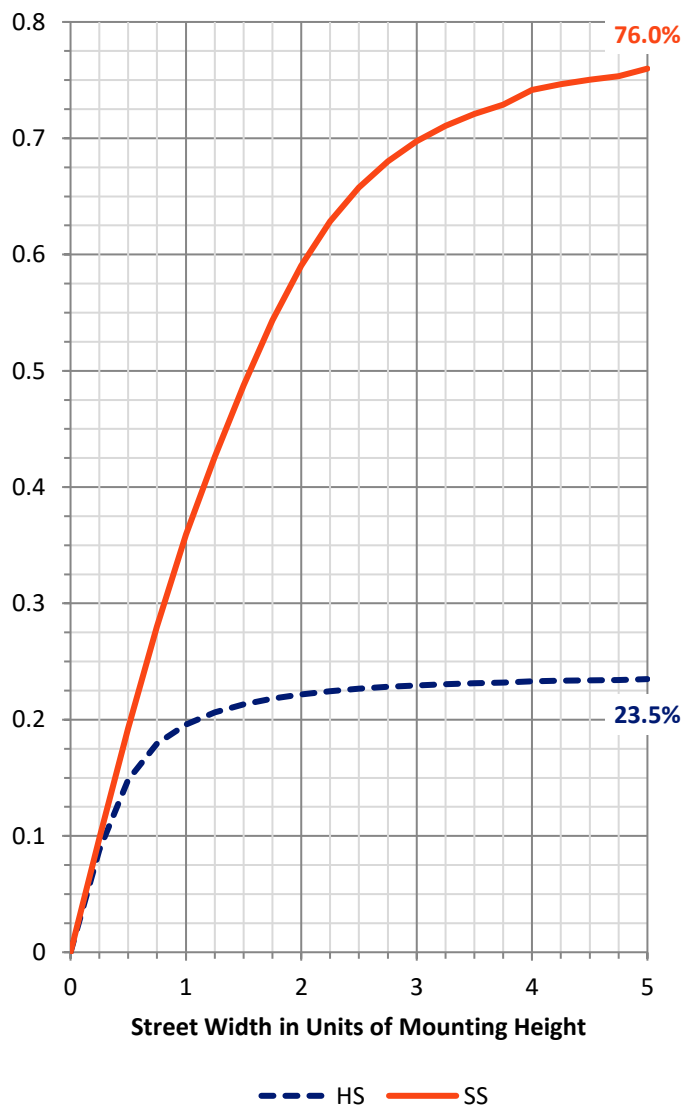
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1460.7	0.0	1460.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4689.3	0.0	4689.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	6150.0	0.0	6150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	1.1
10°-20°	204.2	3.3
20°-30°	378.9	6.2
30°-40°	586.5	9.5
40°-50°	869.1	14.1
50°-60°	1211.0	19.7
60°-70°	1555.2	25.3
70°-80°	1137.8	18.5
80°-90°	142.5	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°	6150.0	100.0
0°-180°	6150.0	100.0

Coefficient of Utilization



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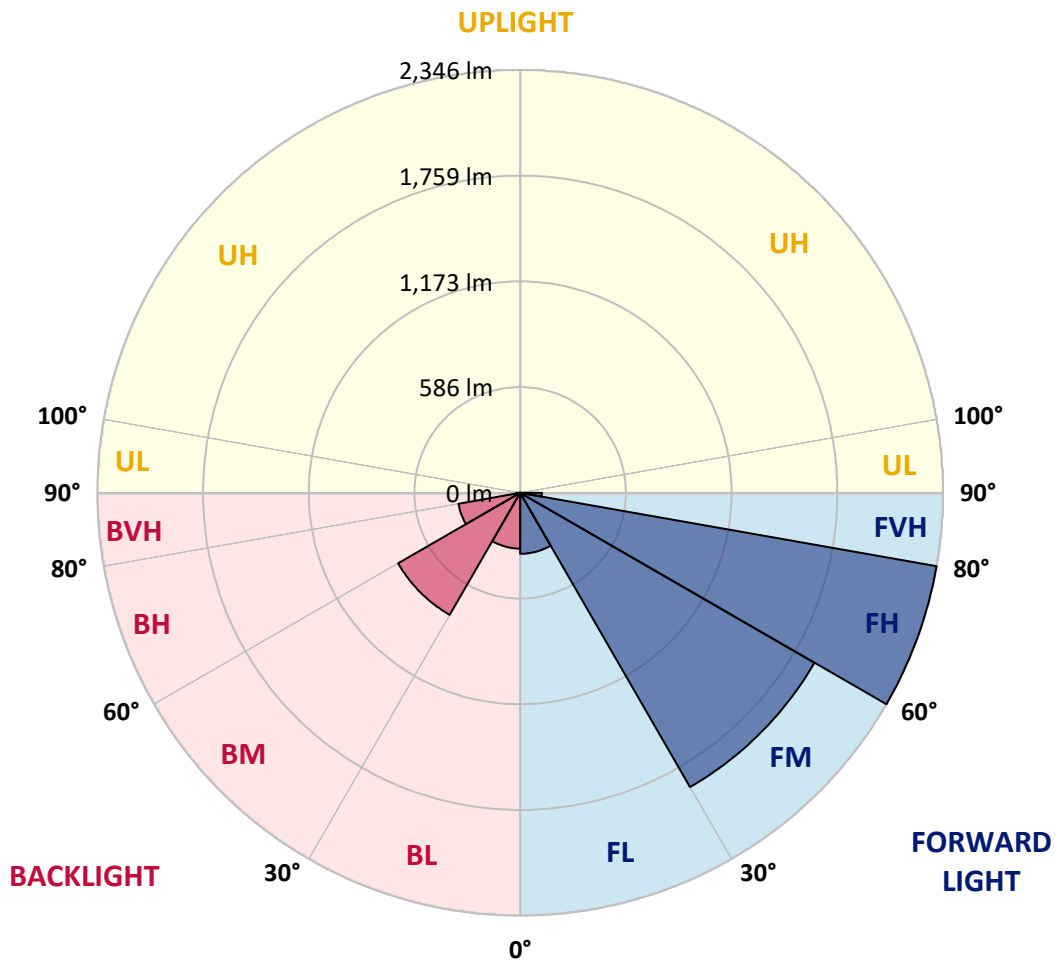
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	338.4	5.5			
FM	(30°-60°)	1884.8	30.6			
FH	(60°-80°)	2345.7	38.1			G2/5000
FVH	(80°-90°)	120.4	2.0			G2/225
BL	(0°-30°)	309.4	5.0	B1/500		
BM	(30°-60°)	781.8	12.7	B1/1000		
BH	(60°-80°)	347.3	5.6	B1/500		G1/500
BVH	(80°-90°)	22.1	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°	664.5	664.5	664.5	664.5	664.5	664.5	664.5	664.5	664.5	664.5	664.5
2.5°	662.8	662.8	662.8	661.0	661.0	661.0	659.3	659.3	661.0	662.8	662.8
5°	668.0	668.0	666.3	666.3	664.5	664.5	664.5	662.8	662.8	662.8	666.3
7.5°	669.8	669.8	669.8	669.8	669.8	669.8	671.5	669.8	669.8	669.8	673.3
10°	669.8	669.8	671.5	671.5	675.1	676.8	678.6	682.1	682.1	682.1	683.8
12.5°	673.3	673.3	675.1	676.8	682.1	685.6	689.1	694.3	696.1	696.1	697.8
15°	680.3	680.3	682.1	687.3	694.3	696.1	701.4	708.4	715.4	717.1	718.9
17.5°	708.4	708.4	708.4	708.4	715.4	717.1	724.1	734.7	741.7	745.2	750.4
20°	764.5	766.2	762.7	761.0	757.5	757.5	757.5	762.7	771.5	783.8	792.5
22.5°	836.4	836.4	836.4	822.3	813.6	811.8	811.8	810.1	817.1	829.3	841.6
25°	892.5	894.2	892.5	880.2	869.7	866.2	866.2	871.4	871.4	882.0	896.0
27.5°	938.1	941.6	936.3	925.8	917.0	915.3	917.0	932.8	941.6	948.6	966.1
30°	987.2	988.9	976.6	969.6	964.4	960.9	962.6	985.4	1015.2	1024.0	1053.8
32.5°	1078.3	1078.3	1060.8	1020.5	1006.4	1008.2	1008.2	1038.0	1078.3	1118.7	1157.2
35°	1164.2	1162.5	1146.7	1111.6	1059.0	1046.8	1053.8	1085.3	1148.5	1216.8	1285.2
37.5°	1265.9	1262.4	1248.4	1199.3	1155.5	1136.2	1097.6	1139.7	1216.8	1351.9	1422.0
40°	1379.9	1374.7	1343.1	1294.0	1236.1	1227.4	1194.1	1201.1	1302.8	1493.9	1574.5
42.5°	1443.0	1439.5	1418.5	1378.2	1336.1	1318.5	1290.5	1281.7	1418.5	1678.0	1718.3
45°	1502.6	1509.7	1509.7	1490.4	1472.8	1469.3	1450.0	1457.1	1567.5	1828.8	1844.6
47.5°	1539.5	1546.5	1523.7	1520.2	1520.2	1521.9	1541.2	1588.6	1702.5	1970.8	1955.0
50°	1649.9	1644.7	1553.5	1567.5	1583.3	1593.8	1635.9	1711.3	1890.1	2098.8	2051.5
52.5°	1849.8	1802.5	1693.8	1662.2	1671.0	1692.0	1748.1	1846.3	2081.3	2212.8	2135.6
55°	2097.0	2069.0	1970.8	1830.5	1784.9	1820.0	1879.6	1979.6	2228.5	2319.7	2202.2
57.5°	2263.6	2274.1	2286.4	2190.0	1977.8	1986.6	2026.9	2111.1	2375.8	2423.2	2254.8
60°	2431.9	2444.2	2512.6	2488.0	2439.0	2358.3	2211.0	2251.3	2486.3	2491.6	2293.4
62.5°	2565.2	2574.0	2675.7	2731.8	2859.8	2870.3	2640.6	2428.4	2602.0	2545.9	2309.2
65°	2498.6	2514.3	2666.9	2822.9	3175.4	3205.2	3129.8	2656.4	2691.4	2566.9	2296.9
67.5°	2274.1	2296.9	2458.2	2789.6	3377.0	3399.8	3326.2	3086.0	2723.0	2558.2	2237.3
70°	1953.3	1986.6	2135.6	2570.5	3405.1	3419.1	3327.9	3177.1	2696.7	2505.6	2109.3
72.5°	1588.6	1614.9	1765.7	2204.0	3235.0	3257.8	3229.7	3101.7	2640.6	2403.9	1851.6
75°	1216.8	1218.6	1378.2	1727.1	2863.3	2954.4	3001.8	2956.2	2488.0	2114.6	1425.5
77.5°	768.0	790.8	953.8	1308.0	2249.6	2342.5	2363.6	2307.4	1741.1	1297.5	613.7
80°	345.4	380.5	547.1	883.7	1530.7	1527.2	1539.5	1401.0	927.5	412.0	68.4
82.5°	124.5	131.5	229.7	443.6	741.7	761.0	752.2	647.0	250.7	57.9	42.1
85°	52.6	56.1	75.4	119.2	168.3	178.8	154.3	117.5	40.3	33.3	28.1
87.5°	3.5	3.5	3.5	3.5	3.5	5.3	5.3	5.3	5.3	7.0	8.8
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°	664.5	664.5	664.5	664.5	664.5	664.5	664.5	664.5	664.5	664.5	664.5
2.5°	662.8	664.5	666.3	669.8	669.8	671.5	673.3	675.1	675.1	675.1	675.1
5°	668.0	669.8	671.5	676.8	680.3	682.1	685.6	687.3	689.1	689.1	689.1
7.5°	675.1	676.8	680.3	685.6	690.8	694.3	697.8	699.6	701.4	701.4	701.4
10°	685.6	689.1	694.3	701.4	706.6	706.6	708.4	710.1	711.9	711.9	711.9
12.5°	699.6	703.1	711.9	720.6	722.4	720.6	717.1	717.1	715.4	713.6	713.6
15°	722.4	724.1	736.4	743.4	738.2	729.4	722.4	715.4	710.1	706.6	706.6
17.5°	754.0	759.2	771.5	771.5	757.5	741.7	724.1	706.6	692.6	687.3	685.6
20°	799.5	806.6	817.1	806.6	783.8	755.7	724.1	696.1	668.0	650.5	645.2
22.5°	850.4	859.2	862.7	839.9	806.6	768.0	725.9	682.1	636.5	597.9	587.4
25°	910.0	915.3	903.0	866.2	820.6	771.5	720.6	662.8	592.6	541.8	536.5
27.5°	980.1	974.9	941.6	885.5	824.1	764.5	701.4	624.2	536.5	498.0	492.7
30°	1055.5	1036.2	974.9	896.0	813.6	743.4	668.0	566.3	494.5	462.9	459.4
32.5°	1145.0	1106.4	1006.4	897.7	794.3	706.6	613.7	519.0	466.4	431.3	427.8
35°	1244.9	1185.3	1034.5	887.2	755.7	655.8	548.8	483.9	436.6	403.3	396.3
37.5°	1379.9	1292.2	1069.6	864.4	706.6	590.9	501.5	447.1	406.8	370.0	364.7
40°	1518.4	1415.0	1118.7	838.1	652.3	538.3	461.1	420.8	385.7	343.7	334.9
42.5°	1656.9	1537.7	1185.3	806.6	597.9	498.0	443.6	417.3	375.2	331.4	322.6
45°	1770.9	1642.9	1248.4	769.7	543.5	461.1	433.1	410.3	368.2	320.9	310.3
47.5°	1869.1	1730.6	1302.8	736.4	490.9	433.1	424.3	398.0	357.7	310.3	299.8
50°	1951.5	1800.7	1346.6	708.4	447.1	413.8	406.8	375.2	333.1	292.8	285.8
52.5°	2023.4	1851.6	1365.9	699.6	403.3	391.0	378.7	347.2	308.6	271.8	261.3
55°	2070.7	1890.1	1362.4	699.6	361.2	359.4	345.4	320.9	292.8	263.0	252.5
57.5°	2107.6	1907.7	1336.1	597.9	326.1	319.1	310.3	299.8	282.3	249.0	238.5
60°	2125.1	1897.2	1280.0	434.8	291.1	278.8	285.8	282.3	264.8	219.2	212.2
62.5°	2114.6	1865.6	1153.7	317.4	254.2	252.5	263.0	256.0	222.7	182.4	178.8
65°	2074.2	1786.7	992.4	238.5	233.2	245.5	250.7	236.7	205.1	168.3	154.3
67.5°	1970.8	1634.2	722.4	213.9	226.2	240.2	243.7	224.4	192.9	157.8	140.3
70°	1779.7	1346.6	375.2	198.1	215.7	233.2	231.4	206.9	175.3	143.8	122.7
72.5°	1443.0	955.6	142.0	177.1	199.9	217.4	213.9	185.9	124.5	89.4	80.7
75°	936.3	457.6	122.7	152.5	178.8	194.6	196.4	168.3	108.7	75.4	64.9
77.5°	320.9	84.2	99.9	126.2	154.3	175.3	170.1	135.0	84.2	56.1	50.8
80°	54.4	56.1	77.1	89.4	107.0	140.3	119.2	96.4	66.6	40.3	33.3
82.5°	38.6	47.3	54.4	52.6	73.6	92.9	80.7	64.9	43.8	31.6	28.1
85°	28.1	31.6	29.8	31.6	42.1	61.4	56.1	45.6	31.6	22.8	19.3
87.5°	10.5	10.5	14.0	17.5	26.3	38.6	33.3	14.0	12.3	10.5	10.5
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)