

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: P507668

Luminaire Tested: **VERD-S-CA1-70-722-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-70-722-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1330mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7181 lumens
Efficiency: N/A
Efficacy: 97.7 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

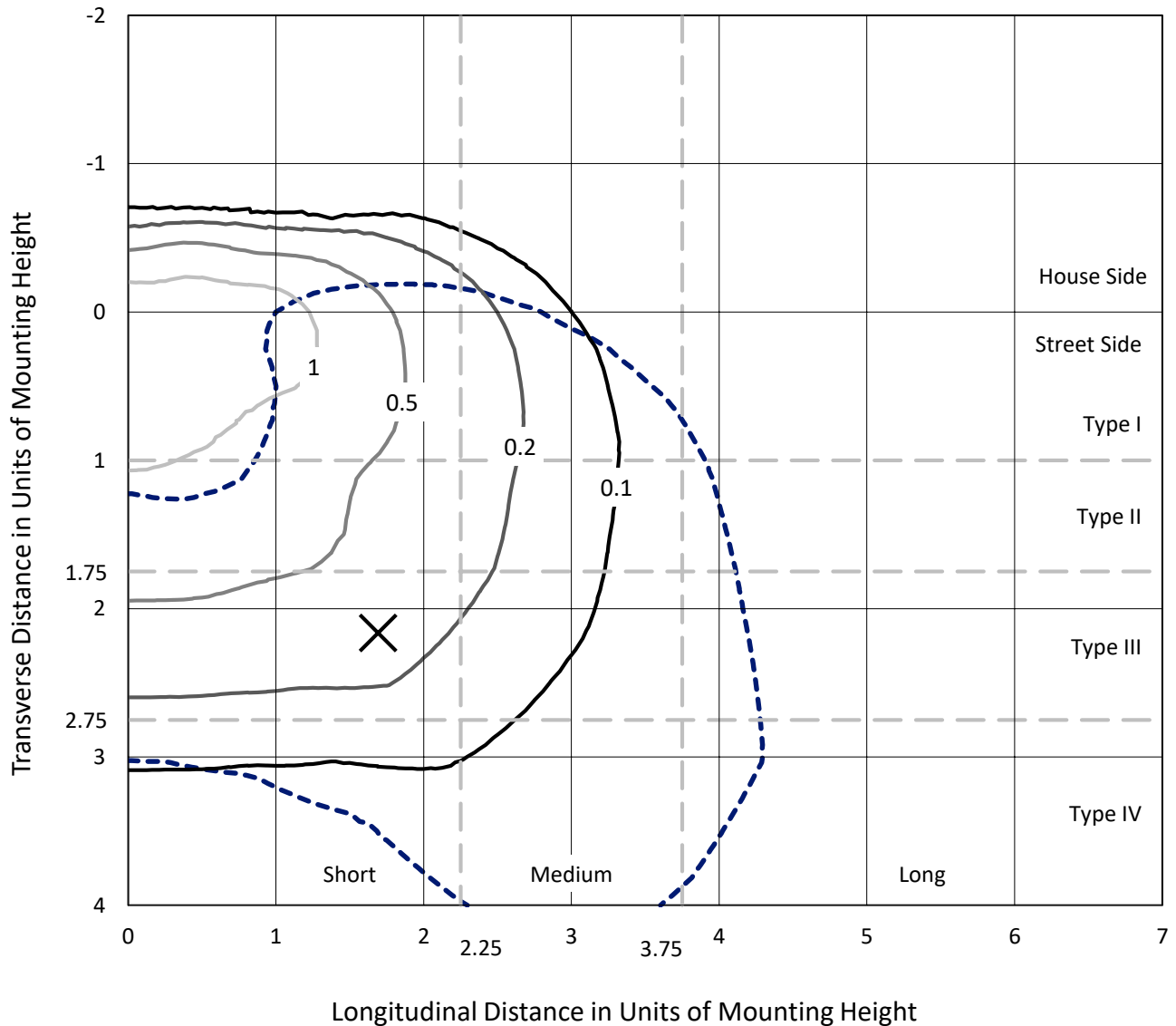
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

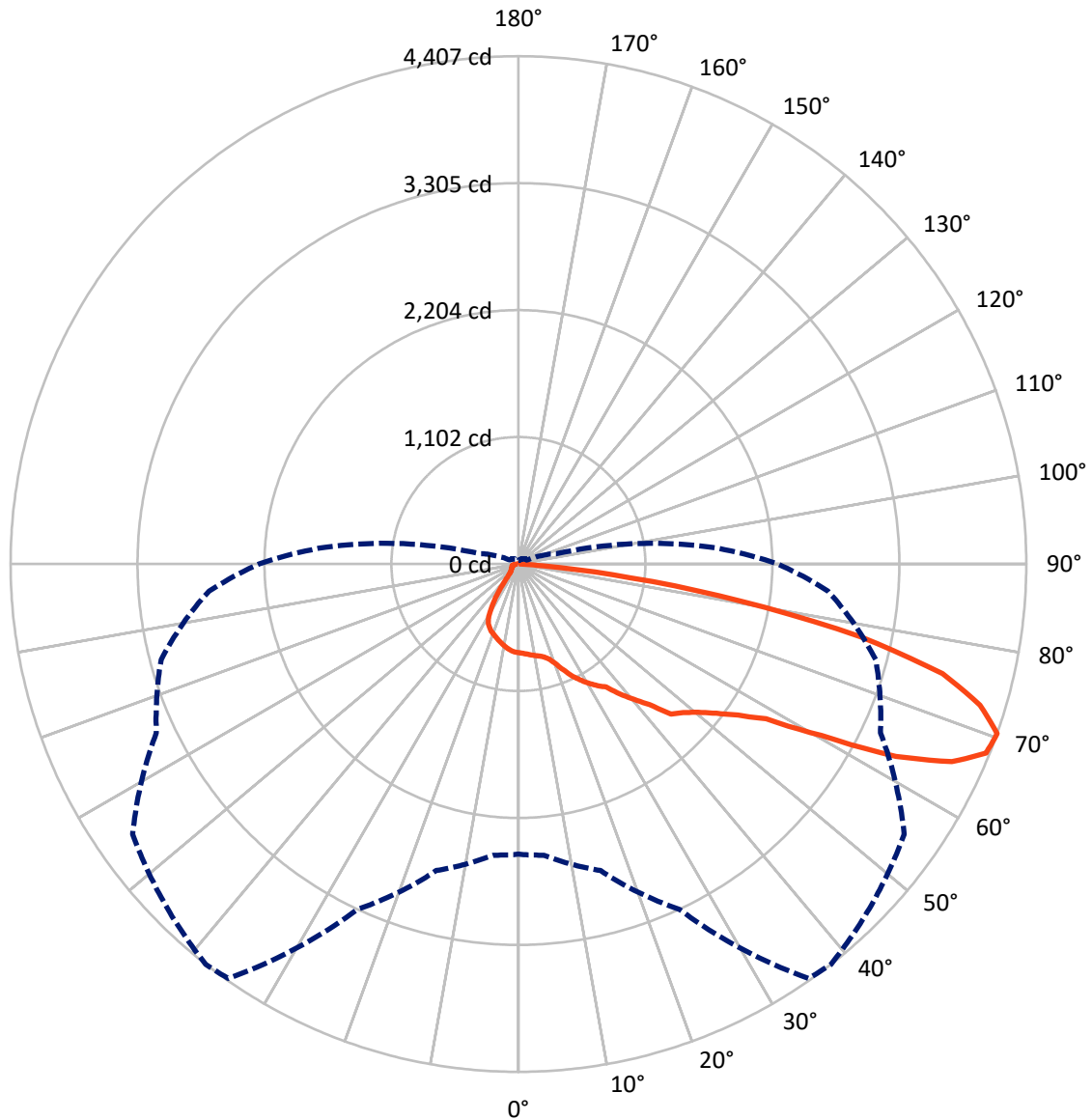
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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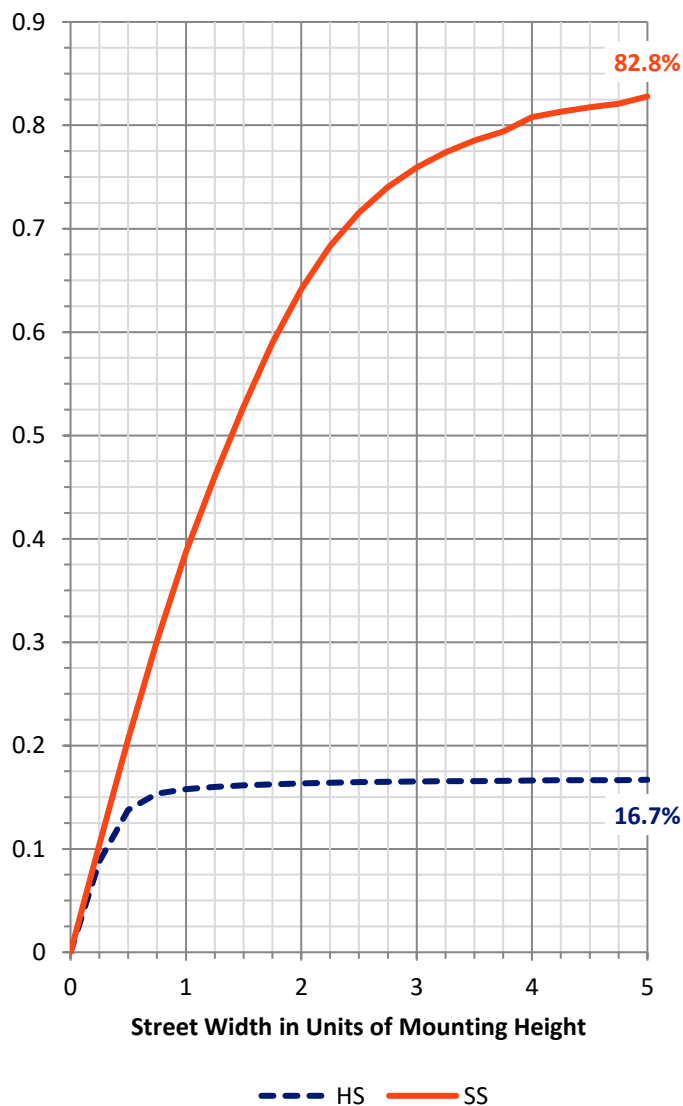
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1214.9	0.0	1214.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	5966.1	0.0	5966.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	7181.0	0.0	7181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.0
10°-20°	223.0	3.1
20°-30°	410.6	5.7
30°-40°	642.7	9.0
40°-50°	976.4	13.6
50°-60°	1404.0	19.6
60°-70°	1886.1	26.3
70°-80°	1397.4	19.5
80°-90°	167.1	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°	7181.0	100.0
0°-180°	7181.0	100.0

Coefficient of Utilization



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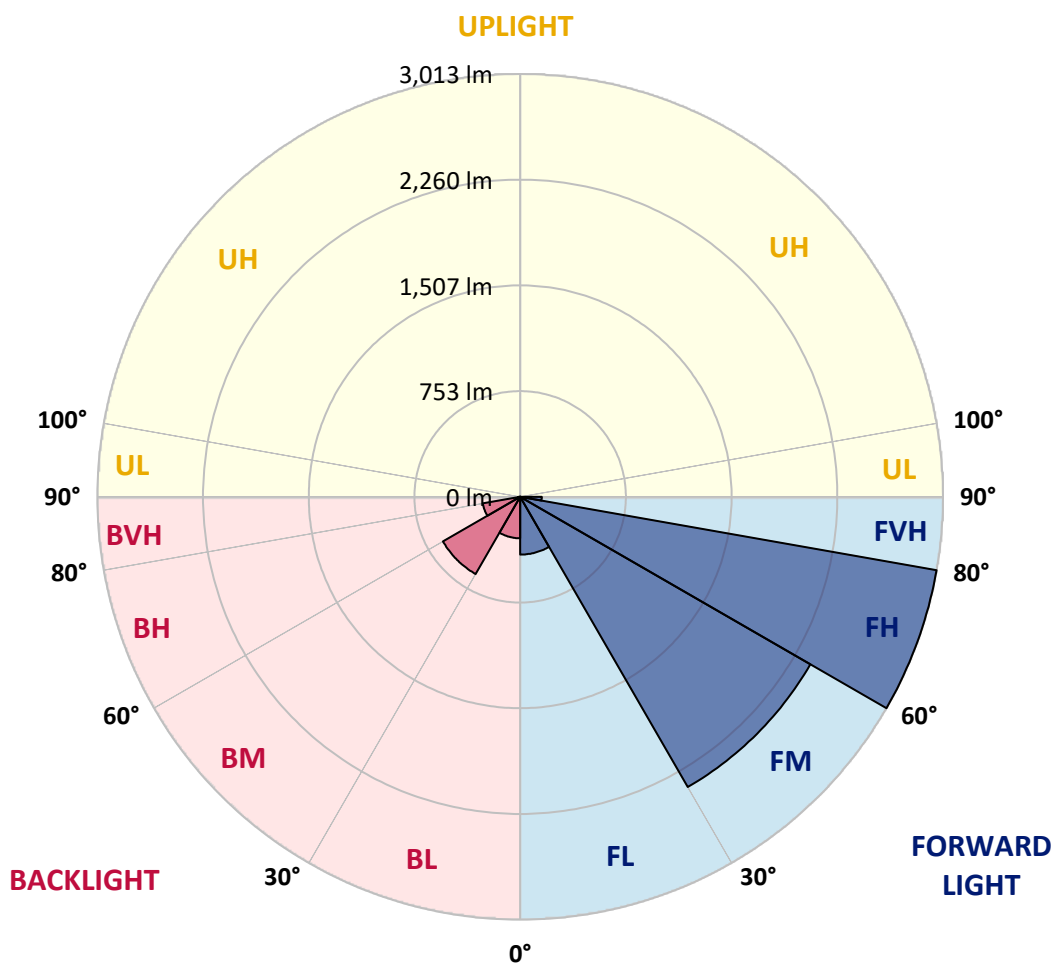
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.7	5.7			
FM	(30°-60°)	2387.6	33.2			
FH	(60°-80°)	3013.1	42.0			G2/5000
FVH	(80°-90°)	153.7	2.1			G2/225
BL	(0°-30°)	295.5	4.1	B1/500		
BM	(30°-60°)	635.5	8.8	B1/1000		
BH	(60°-80°)	270.5	3.8	B1/500		G1/500
BVH	(80°-90°)	13.4	0.2			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°	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7
2.5°	781.0	781.0	781.0	778.8	778.8	776.5	776.5	774.2	774.2	772.0	769.7
5°	792.4	792.4	790.1	787.9	785.6	785.6	785.6	783.3	778.8	778.8	774.2
7.5°	796.9	796.9	796.9	796.9	796.9	796.9	796.9	794.7	792.4	790.1	785.6
10°	799.2	799.2	801.5	801.5	806.0	808.3	808.3	810.6	808.3	803.8	799.2
12.5°	806.0	808.3	808.3	810.6	817.4	819.6	821.9	828.7	828.7	824.2	819.6
15°	819.6	819.6	821.9	826.5	835.5	837.8	844.6	851.4	856.0	851.4	846.9
17.5°	860.5	860.5	860.5	860.5	865.1	867.3	876.4	887.8	892.3	892.3	890.0
20°	942.3	942.3	937.7	928.6	924.1	924.1	921.8	926.4	935.4	942.3	944.5
22.5°	1035.3	1033.1	1030.8	1017.2	1001.3	996.7	992.2	987.7	992.2	1003.6	1008.1
25°	1108.0	1110.3	1108.0	1089.8	1076.2	1073.9	1067.1	1069.4	1069.4	1071.7	1078.5
27.5°	1167.0	1171.6	1162.5	1153.4	1144.3	1137.5	1142.1	1148.9	1160.2	1155.7	1169.3
30°	1232.9	1230.6	1221.5	1210.2	1203.4	1201.1	1198.8	1223.8	1255.6	1269.2	1285.1
32.5°	1350.9	1348.7	1330.5	1273.7	1257.8	1257.8	1262.4	1294.2	1344.1	1387.3	1428.1
35°	1459.9	1459.9	1437.2	1398.6	1330.5	1310.1	1321.4	1360.0	1432.7	1519.0	1584.8
37.5°	1589.3	1591.6	1566.6	1507.6	1453.1	1432.7	1378.2	1432.7	1521.2	1687.0	1768.7
40°	1739.2	1734.7	1693.8	1630.2	1559.8	1543.9	1498.5	1509.9	1634.8	1884.5	1964.0
42.5°	1823.2	1818.7	1791.4	1741.5	1684.7	1666.5	1625.7	1614.3	1786.9	2102.5	2154.7
45°	1904.9	1909.5	1907.2	1882.2	1868.6	1857.3	1834.6	1836.8	1975.3	2318.2	2320.4
47.5°	1952.6	1961.7	1925.4	1923.1	1925.4	1925.4	1957.2	2020.7	2154.7	2502.1	2465.7
50°	2093.4	2084.3	1973.1	1977.6	2007.1	2020.7	2079.8	2172.9	2404.4	2661.0	2590.6
52.5°	2377.2	2313.6	2172.9	2104.7	2116.1	2150.2	2220.5	2354.5	2654.2	2817.7	2701.9
55°	2695.1	2667.8	2522.5	2347.7	2270.5	2313.6	2388.6	2529.3	2851.7	2951.6	2795.0
57.5°	2915.3	2926.7	2931.2	2790.4	2520.2	2533.9	2581.5	2704.1	3028.8	3087.9	2865.4
60°	3128.7	3144.6	3230.9	3210.5	3121.9	3022.0	2835.8	2876.7	3181.0	3185.5	2919.8
62.5°	3299.0	3308.1	3446.6	3510.2	3669.1	3675.9	3373.9	3115.1	3335.3	3255.9	2940.3
65°	3212.7	3237.7	3439.8	3632.8	4084.6	4134.6	4016.5	3419.4	3453.4	3287.7	2926.7
67.5°	2922.1	2963.0	3153.7	3596.5	4343.4	4377.5	4273.1	3971.1	3496.5	3276.3	2851.7
70°	2518.0	2536.1	2754.1	3305.8	4391.1	4407.0	4277.6	4086.9	3467.0	3210.5	2695.1
72.5°	2048.0	2068.4	2256.9	2842.6	4175.4	4189.0	4155.0	3996.1	3396.6	3087.9	2377.2
75°	1537.1	1568.9	1748.3	2220.5	3687.3	3803.1	3873.5	3805.3	3201.4	2681.4	1809.6
77.5°	1014.9	1017.2	1198.8	1677.9	2922.1	3037.9	3049.3	2992.5	2272.8	1682.4	803.8
80°	435.9	476.8	701.6	1126.2	1941.3	1961.7	1984.4	1834.6	1164.8	519.9	88.5
82.5°	145.3	161.2	295.2	594.9	955.9	978.6	937.7	812.8	327.0	70.4	50.0
85°	61.3	68.1	90.8	163.5	231.6	211.2	197.5	161.2	45.4	40.9	31.8
87.5°	2.3	2.3	2.3	2.3	4.5	2.3	4.5	4.5	6.8	6.8	9.1
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°	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7
2.5°	769.7	769.7	769.7	767.4	767.4	765.2	765.2	762.9	762.9	762.9	762.9
5°	774.2	774.2	769.7	767.4	762.9	758.3	753.8	749.3	744.7	744.7	744.7
7.5°	783.3	781.0	774.2	765.2	756.1	744.7	737.9	728.8	724.3	719.7	722.0
10°	796.9	792.4	783.3	769.7	751.5	733.4	717.5	703.9	697.0	690.2	688.0
12.5°	815.1	810.6	796.9	776.5	749.3	722.0	697.0	676.6	663.0	656.2	653.9
15°	842.4	835.5	817.4	787.9	749.3	708.4	674.3	644.8	622.1	608.5	608.5
17.5°	885.5	878.7	853.7	812.8	758.3	701.6	649.4	599.4	569.9	554.0	551.7
20°	942.3	933.2	903.7	844.6	774.2	699.3	622.1	558.5	508.6	481.3	479.1
22.5°	1008.1	1001.3	955.9	878.7	790.1	694.8	601.7	517.7	447.3	397.3	386.0
25°	1085.3	1073.9	1005.8	905.9	794.7	683.4	572.2	474.5	376.9	315.6	304.2
27.5°	1176.1	1151.1	1051.2	926.4	792.4	660.7	538.1	413.2	286.1	240.7	233.9
30°	1273.7	1230.6	1096.6	940.0	778.8	624.4	479.1	308.8	206.6	179.4	172.6
32.5°	1385.0	1316.9	1137.5	942.3	749.3	574.4	379.2	211.2	147.6	131.7	129.4
35°	1519.0	1425.9	1180.7	933.2	706.1	492.7	263.4	143.0	109.0	104.4	104.4
37.5°	1693.8	1564.4	1228.3	905.9	640.3	381.4	174.8	97.6	95.4	97.6	97.6
40°	1877.7	1723.3	1287.4	865.1	556.3	274.7	111.3	90.8	90.8	93.1	93.1
42.5°	2052.5	1875.4	1362.3	810.6	460.9	177.1	90.8	86.3	84.0	86.3	88.5
45°	2200.1	2018.5	1434.9	751.5	351.9	113.5	88.5	81.7	77.2	79.5	79.5
47.5°	2331.8	2127.4	1475.8	681.1	247.5	88.5	88.5	74.9	70.4	70.4	72.7
50°	2443.0	2213.7	1498.5	599.4	156.7	86.3	79.5	70.4	65.8	65.8	63.6
52.5°	2536.1	2277.3	1496.3	508.6	102.2	84.0	74.9	65.8	59.0	61.3	61.3
55°	2606.5	2327.2	1462.2	390.5	86.3	79.5	72.7	61.3	56.8	61.3	61.3
57.5°	2661.0	2350.0	1398.6	272.5	84.0	72.7	68.1	56.8	52.2	54.5	54.5
60°	2688.3	2338.6	1298.7	170.3	81.7	70.4	63.6	52.2	47.7	45.4	47.7
62.5°	2679.2	2297.7	1155.7	113.5	77.2	65.8	59.0	50.0	43.1	38.6	38.6
65°	2624.7	2206.9	985.4	95.4	74.9	65.8	56.8	47.7	38.6	36.3	36.3
67.5°	2502.1	2018.5	731.1	88.5	74.9	63.6	54.5	45.4	38.6	34.1	34.1
70°	2250.1	1680.2	351.9	81.7	74.9	65.8	54.5	43.1	36.3	31.8	31.8
72.5°	1820.9	1187.5	90.8	70.4	72.7	65.8	56.8	43.1	34.1	29.5	29.5
75°	1187.5	569.9	77.2	56.8	65.8	61.3	54.5	43.1	34.1	27.2	27.2
77.5°	386.0	79.5	70.4	50.0	59.0	59.0	54.5	43.1	34.1	25.0	25.0
80°	61.3	56.8	61.3	38.6	43.1	50.0	43.1	40.9	31.8	22.7	22.7
82.5°	43.1	52.2	45.4	31.8	38.6	40.9	34.1	27.2	22.7	20.4	20.4
85°	31.8	34.1	27.2	25.0	29.5	34.1	27.2	20.4	18.2	18.2	18.2
87.5°	11.4	13.6	13.6	18.2	22.7	25.0	15.9	11.4	13.6	13.6	13.6
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)