

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: P507676

Luminaire Tested: **VERD-S-CA1-70-727-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507676
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-CA1-70-727-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1330mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7461 lumens
Efficiency: N/A
Efficacy: 101.5 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

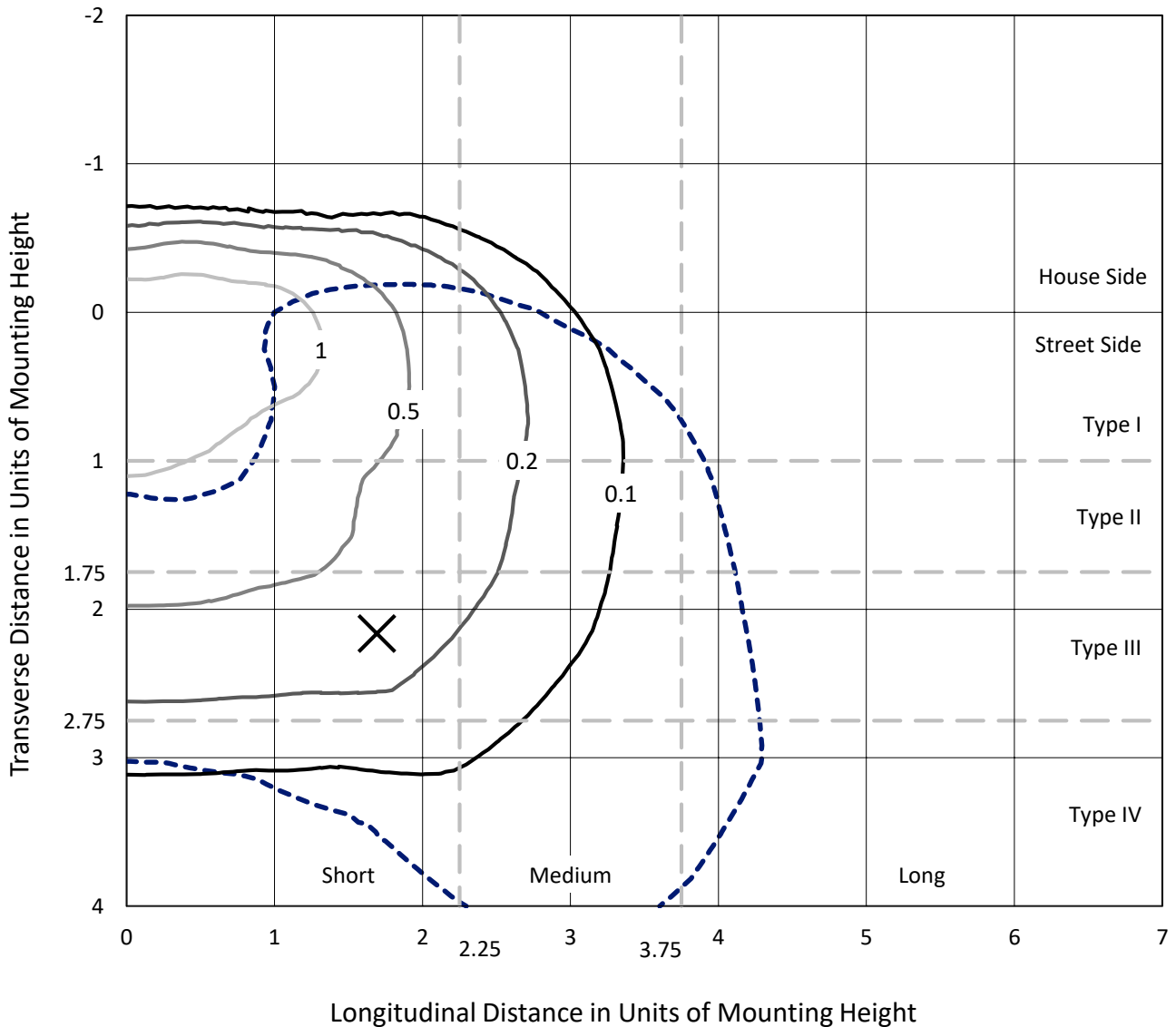
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

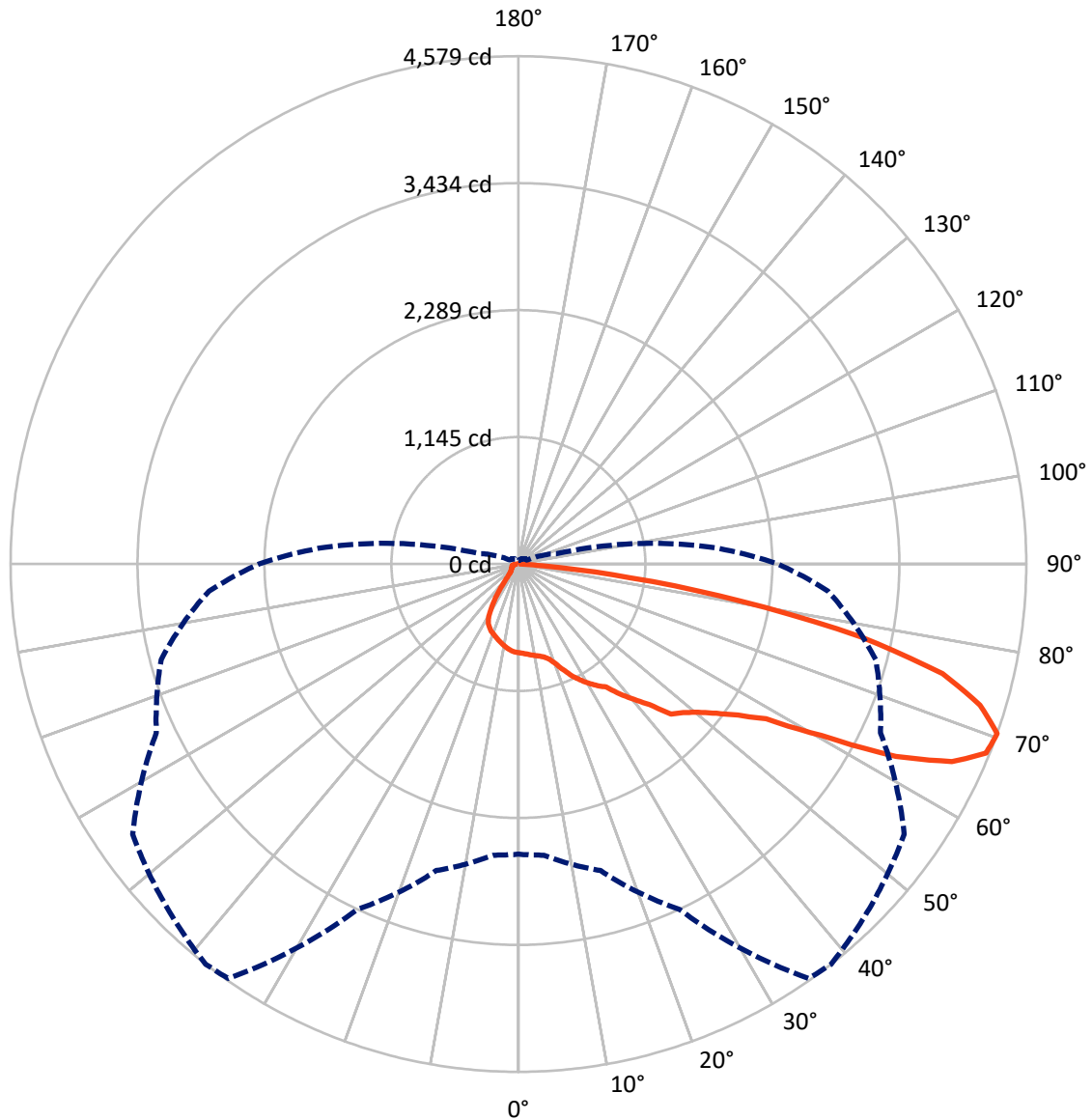
× Max cd
 - - - 1/2 Max cd



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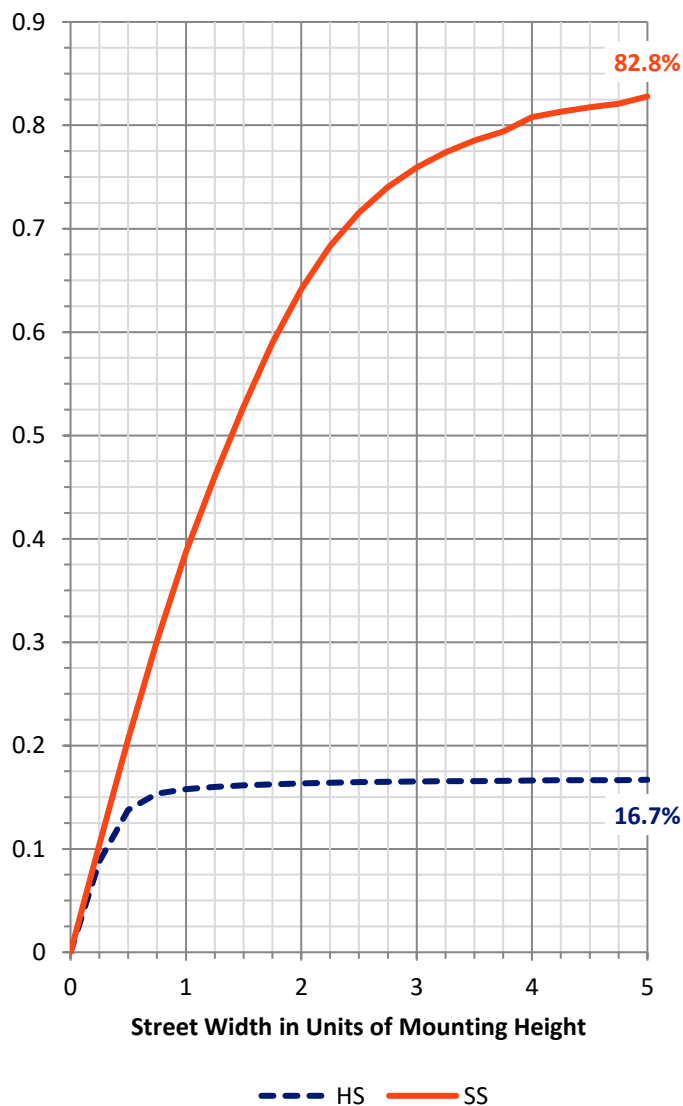
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1262.2	0.0	1262.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	6198.8	0.0	6198.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	7461.0	0.0	7461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	1.0
10°-20°	231.7	3.1
20°-30°	426.6	5.7
30°-40°	667.8	9.0
40°-50°	1014.5	13.6
50°-60°	1458.7	19.6
60°-70°	1959.7	26.3
70°-80°	1451.9	19.5
80°-90°	173.6	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°	7461.0	100.0
0°-180°	7461.0	100.0

Coefficient of Utilization



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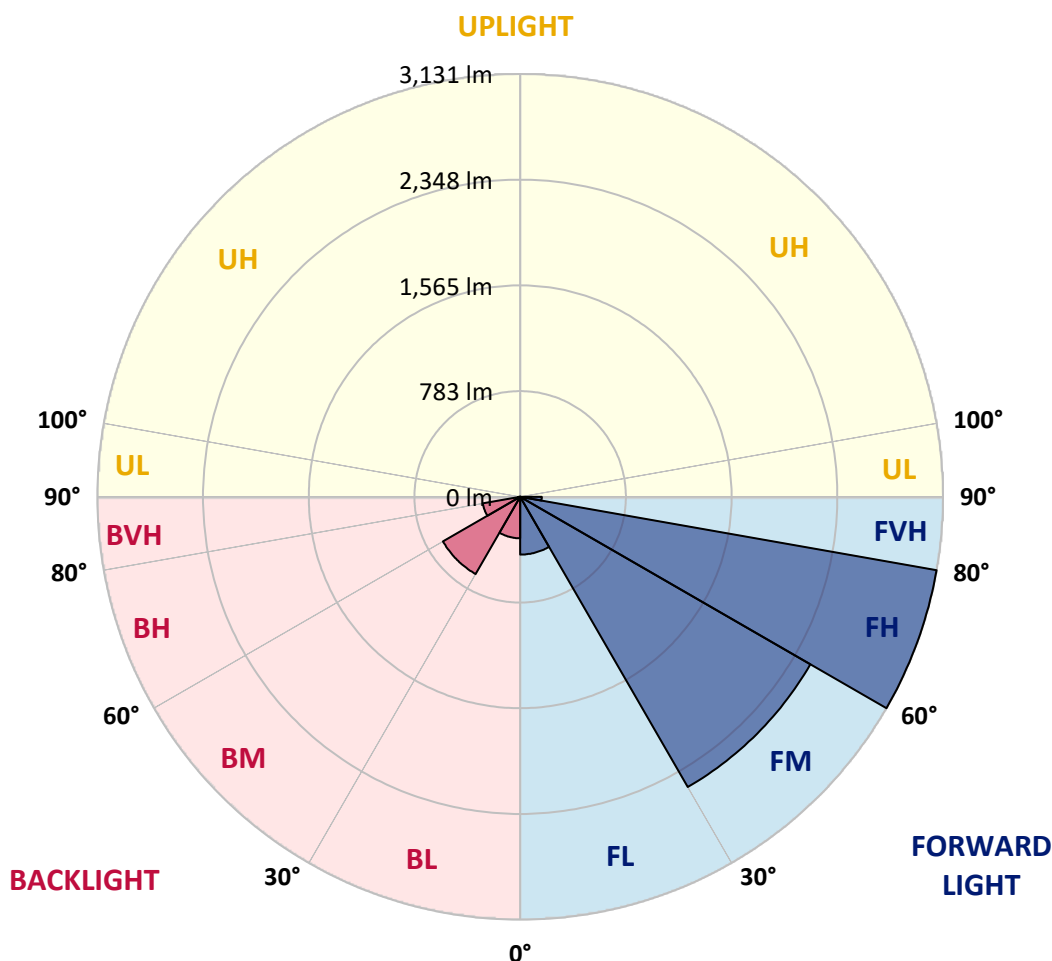
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.7	5.7			
FM (30°-60°)	2480.7	33.2			
FH (60°-80°)	3130.6	42.0			G2/5000
FVH (80°-90°)	159.7	2.1			G2/225
BL (0°-30°)	307.0	4.1	B1/500		
BM (30°-60°)	660.3	8.8	B1/1000		
BH (60°-80°)	281.0	3.8	B1/500		G1/500
BVH (80°-90°)	13.9	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°	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7
2.5°	811.5	811.5	811.5	809.1	809.1	806.8	806.8	804.4	804.4	802.1	799.7
5°	823.3	823.3	820.9	818.6	816.2	816.2	816.2	813.9	809.1	809.1	804.4
7.5°	828.0	828.0	828.0	828.0	828.0	828.0	828.0	825.7	823.3	820.9	816.2
10°	830.4	830.4	832.7	832.7	837.5	839.8	839.8	842.2	839.8	835.1	830.4
12.5°	837.5	839.8	839.8	842.2	849.2	851.6	854.0	861.0	861.0	856.3	851.6
15°	851.6	851.6	854.0	858.7	868.1	870.5	877.6	884.6	889.3	884.6	879.9
17.5°	894.1	894.1	894.1	894.1	898.8	901.1	910.6	922.4	927.1	927.1	924.7
20°	979.0	979.0	974.3	964.8	960.1	960.1	957.8	962.5	971.9	979.0	981.4
22.5°	1075.7	1073.4	1071.0	1056.8	1040.3	1035.6	1030.9	1026.2	1030.9	1042.7	1047.4
25°	1151.2	1153.6	1151.2	1132.3	1118.2	1115.8	1108.7	1111.1	1111.1	1113.5	1120.5
27.5°	1212.5	1217.3	1207.8	1198.4	1188.9	1181.9	1186.6	1193.7	1205.5	1200.7	1214.9
30°	1280.9	1278.6	1269.2	1257.4	1250.3	1247.9	1245.6	1271.5	1304.5	1318.7	1335.2
32.5°	1403.6	1401.3	1382.4	1323.4	1306.9	1306.9	1311.6	1344.6	1396.5	1441.4	1483.8
35°	1516.8	1516.8	1493.3	1453.2	1382.4	1361.2	1372.9	1413.1	1488.5	1578.2	1646.6
37.5°	1651.3	1653.7	1627.7	1566.4	1509.8	1488.5	1431.9	1488.5	1580.5	1752.7	1837.7
40°	1807.0	1802.3	1759.8	1693.8	1620.6	1604.1	1557.0	1568.7	1698.5	1958.0	2040.5
42.5°	1894.3	1889.6	1861.3	1809.4	1750.4	1731.5	1689.1	1677.3	1856.5	2184.4	2238.7
45°	1979.2	1983.9	1981.6	1955.6	1941.5	1929.7	1906.1	1908.4	2052.3	2408.6	2410.9
47.5°	2028.8	2038.2	2000.4	1998.1	2000.4	2000.4	2033.5	2099.5	2238.7	2599.6	2561.9
50°	2175.0	2165.6	2050.0	2054.7	2085.4	2099.5	2160.9	2257.6	2498.2	2764.8	2691.6
52.5°	2469.9	2403.8	2257.6	2186.8	2198.6	2234.0	2307.1	2446.3	2757.7	2927.5	2807.2
55°	2800.2	2771.8	2620.9	2439.2	2359.0	2403.8	2481.7	2627.9	2962.9	3066.7	2903.9
57.5°	3029.0	3040.8	3045.5	2899.2	2618.5	2632.7	2682.2	2809.6	3146.9	3208.3	2977.1
60°	3250.7	3267.2	3356.9	3335.6	3243.6	3139.9	2946.4	2988.9	3305.0	3309.7	3033.7
62.5°	3427.7	3437.1	3581.0	3647.0	3812.2	3819.2	3505.5	3236.6	3465.4	3382.8	3054.9
65°	3338.0	3364.0	3573.9	3774.4	4243.9	4295.8	4173.1	3552.7	3588.1	3415.9	3040.8
67.5°	3036.1	3078.5	3276.7	3736.7	4512.8	4548.2	4439.7	4125.9	3632.9	3404.1	2962.9
70°	2616.1	2635.0	2861.5	3434.7	4562.3	4578.9	4444.4	4246.2	3602.2	3335.6	2800.2
72.5°	2127.8	2149.1	2344.9	2953.5	4338.2	4352.4	4317.0	4151.9	3529.1	3208.3	2469.9
75°	1597.1	1630.1	1816.4	2307.1	3831.0	3951.4	4024.5	3953.7	3326.2	2786.0	1880.1
77.5°	1054.5	1056.8	1245.6	1743.3	3036.1	3156.4	3168.2	3109.2	2361.4	1748.0	835.1
80°	452.9	495.4	728.9	1170.1	2017.0	2038.2	2061.8	1906.1	1210.2	540.2	92.0
82.5°	151.0	167.5	306.7	618.1	993.1	1016.7	974.3	844.5	339.7	73.1	51.9
85°	63.7	70.8	94.4	169.8	240.6	219.4	205.2	167.5	47.2	42.5	33.0
87.5°	2.4	2.4	2.4	2.4	4.7	2.4	4.7	4.7	7.1	7.1	9.4
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°	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7	799.7
2.5°	799.7	799.7	799.7	797.3	797.3	795.0	795.0	792.6	792.6	792.6	792.6
5°	804.4	804.4	799.7	797.3	792.6	787.9	783.2	778.5	773.8	773.8	773.8
7.5°	813.9	811.5	804.4	795.0	785.6	773.8	766.7	757.2	752.5	747.8	750.2
10°	828.0	823.3	813.9	799.7	780.8	762.0	745.4	731.3	724.2	717.1	714.8
12.5°	846.9	842.2	828.0	806.8	778.5	750.2	724.2	703.0	688.8	681.8	679.4
15°	875.2	868.1	849.2	818.6	778.5	736.0	700.6	670.0	646.4	632.2	632.2
17.5°	920.0	912.9	887.0	844.5	787.9	728.9	674.7	622.8	592.1	575.6	573.2
20°	979.0	969.6	938.9	877.6	804.4	726.6	646.4	580.3	528.4	500.1	497.8
22.5°	1047.4	1040.3	993.1	912.9	820.9	721.9	625.1	537.9	464.7	412.8	401.0
25°	1127.6	1115.8	1045.0	941.2	825.7	710.1	594.5	493.0	391.6	327.9	316.1
27.5°	1222.0	1196.0	1092.2	962.5	823.3	686.5	559.1	429.3	297.2	250.1	243.0
30°	1323.4	1278.6	1139.4	976.6	809.1	648.7	497.8	320.8	214.7	186.4	179.3
32.5°	1439.0	1368.2	1181.9	979.0	778.5	596.8	394.0	219.4	153.3	136.8	134.5
35°	1578.2	1481.5	1226.7	969.6	733.7	511.9	273.6	148.6	113.2	108.5	108.5
37.5°	1759.8	1625.4	1276.2	941.2	665.2	396.3	181.6	101.4	99.1	101.4	101.4
40°	1950.9	1790.5	1337.6	898.8	578.0	285.4	115.6	94.4	94.4	96.7	96.7
42.5°	2132.6	1948.5	1415.4	842.2	478.9	184.0	94.4	89.6	87.3	89.6	92.0
45°	2285.9	2097.2	1490.9	780.8	365.6	118.0	92.0	84.9	80.2	82.6	82.6
47.5°	2422.7	2210.4	1533.4	707.7	257.1	92.0	92.0	77.8	73.1	73.1	75.5
50°	2538.3	2300.0	1557.0	622.8	162.8	89.6	82.6	73.1	68.4	68.4	66.1
52.5°	2635.0	2366.1	1554.6	528.4	106.2	87.3	77.8	68.4	61.3	63.7	63.7
55°	2708.2	2418.0	1519.2	405.8	89.6	82.6	75.5	63.7	59.0	63.7	63.7
57.5°	2764.8	2441.6	1453.2	283.1	87.3	75.5	70.8	59.0	54.3	56.6	56.6
60°	2793.1	2429.8	1349.4	176.9	84.9	73.1	66.1	54.3	49.5	47.2	49.5
62.5°	2783.6	2387.3	1200.7	118.0	80.2	68.4	61.3	51.9	44.8	40.1	40.1
65°	2727.0	2293.0	1023.8	99.1	77.8	68.4	59.0	49.5	40.1	37.7	37.7
67.5°	2599.6	2097.2	759.6	92.0	77.8	66.1	56.6	47.2	40.1	35.4	35.4
70°	2337.8	1745.7	365.6	84.9	77.8	68.4	56.6	44.8	37.7	33.0	33.0
72.5°	1891.9	1233.8	94.4	73.1	75.5	68.4	59.0	44.8	35.4	30.7	30.7
75°	1233.8	592.1	80.2	59.0	68.4	63.7	56.6	44.8	35.4	28.3	28.3
77.5°	401.0	82.6	73.1	51.9	61.3	61.3	56.6	44.8	35.4	25.9	25.9
80°	63.7	59.0	63.7	40.1	44.8	51.9	44.8	42.5	33.0	23.6	23.6
82.5°	44.8	54.3	47.2	33.0	40.1	42.5	35.4	28.3	23.6	21.2	21.2
85°	33.0	35.4	28.3	25.9	30.7	35.4	28.3	21.2	18.9	18.9	18.9
87.5°	11.8	14.2	14.2	18.9	23.6	25.9	16.5	11.8	14.2	14.2	14.2
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)