

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: P507724

Luminaire Tested: **VERD-S-CA1-80-727-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507724
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-CA1-80-727-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1500mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8212 lumens
Efficiency: N/A
Efficacy: 98.8 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): 83.1
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

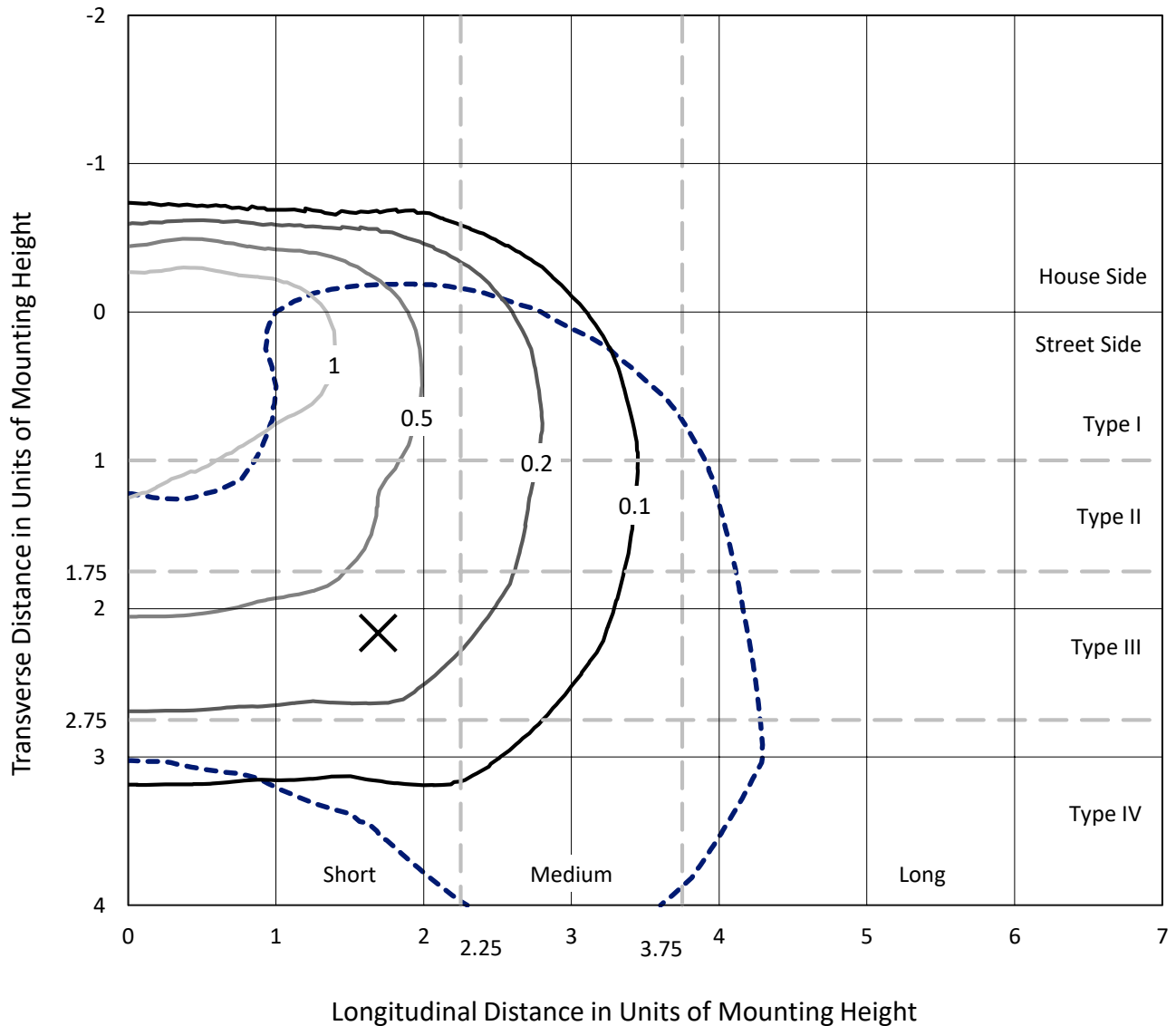


REPORT NUMBER: P507724

CATALOG NUMBER: VERD-S-CA1-80-727-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

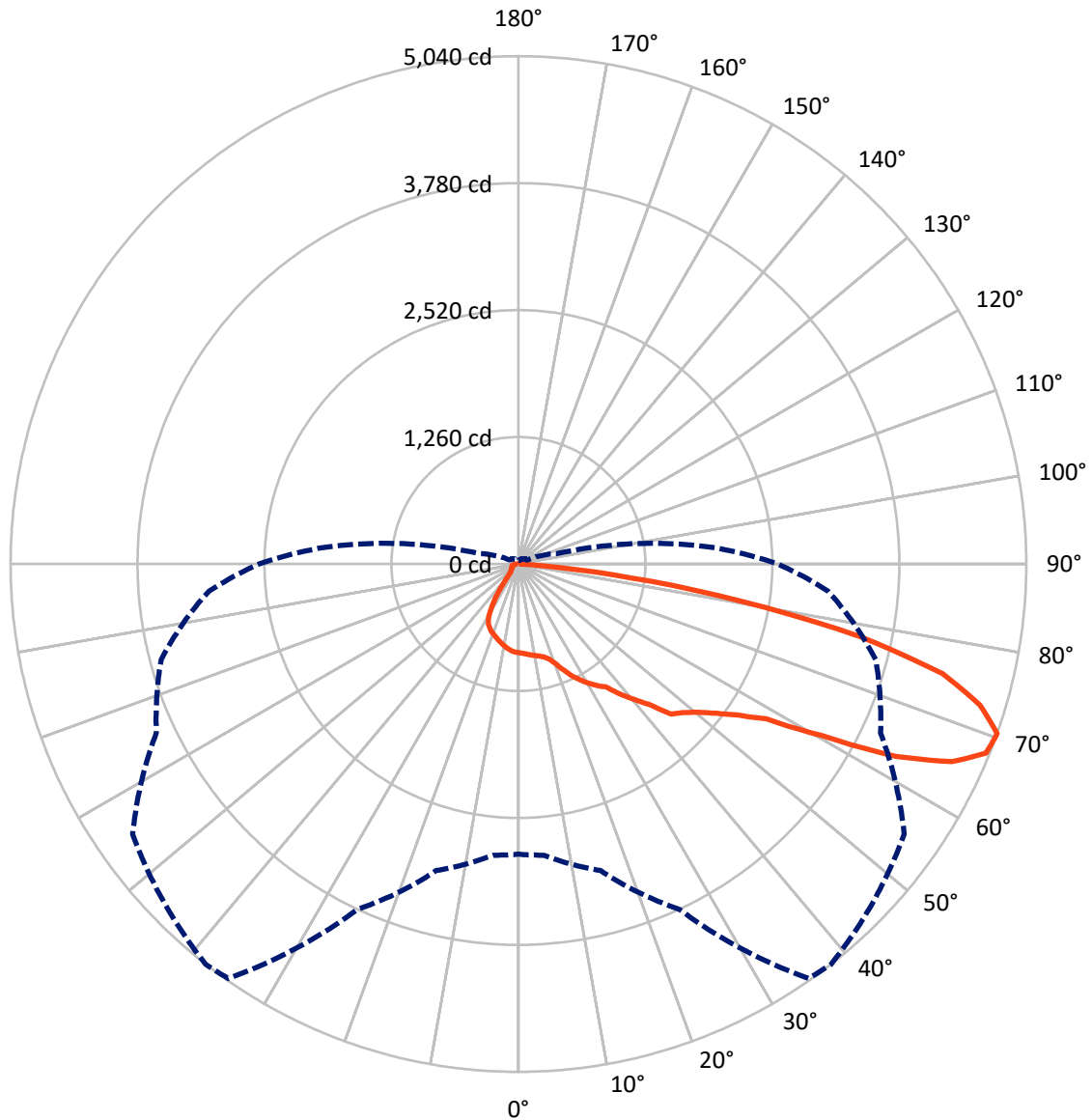
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P507724
CATALOG NUMBER: VERD-S-CA1-80-727-U-T4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507724

CATALOG NUMBER: VERD-S-CA1-80-727-U-T4-HSS

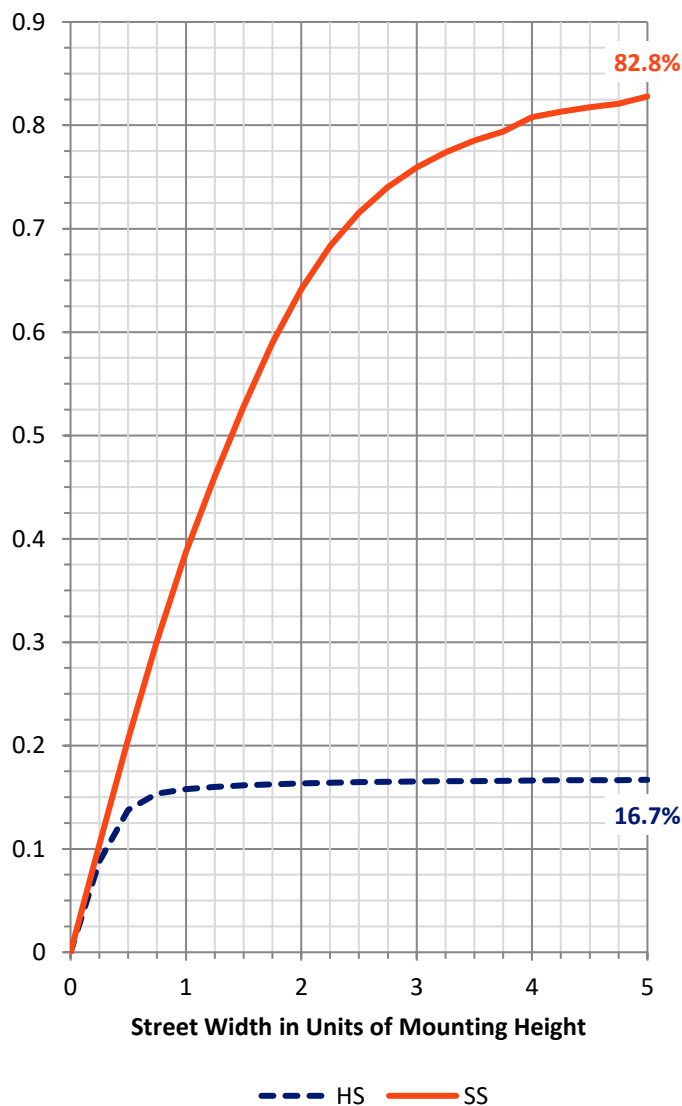
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1389.3	0.0	1389.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	6822.7	0.0	6822.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	8212.0	0.0	8212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.0
10°-20°	255.0	3.1
20°-30°	469.5	5.7
30°-40°	735.0	9.0
40°-50°	1116.6	13.6
50°-60°	1605.5	19.6
60°-70°	2156.9	26.3
70°-80°	1598.1	19.5
80°-90°	191.1	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°	8212.0	100.0
0°-180°	8212.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507724

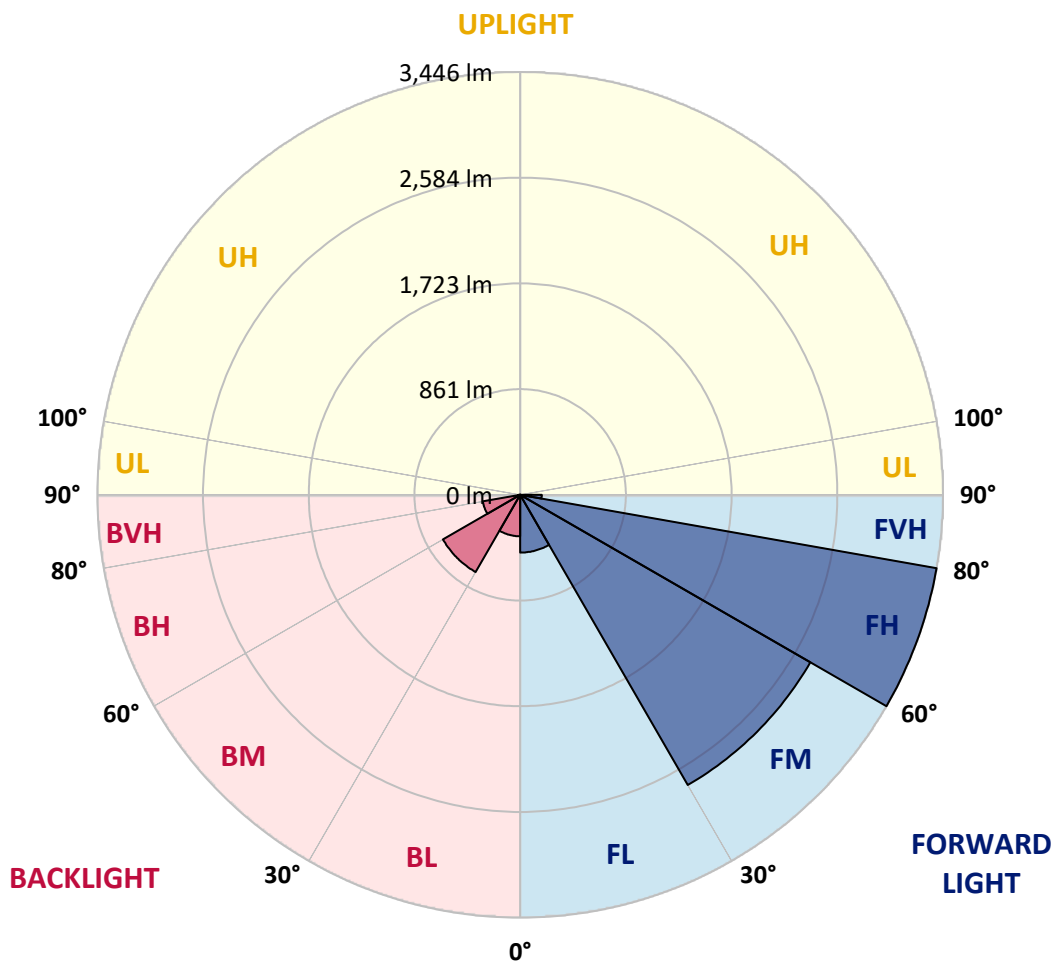
CATALOG NUMBER: VERD-S-CA1-80-727-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.8	5.7			
FM (30°-60°)	2730.4	33.2			
FH (60°-80°)	3445.7	42.0			G2/5000
FVH (80°-90°)	175.8	2.1			G2/225
BL (0°-30°)	337.9	4.1	B1/500		
BM (30°-60°)	726.7	8.8	B1/1000		
BH (60°-80°)	309.3	3.8	B1/500		G1/500
BVH (80°-90°)	15.3	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





REPORT NUMBER: P507724

CATALOG NUMBER: VERD-S-CA1-80-727-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2
2.5°	893.2	893.2	893.2	890.6	890.6	888.0	888.0	885.4	885.4	882.8	880.2
5°	906.2	906.2	903.6	901.0	898.4	898.4	898.4	895.8	890.6	890.6	885.4
7.5°	911.4	911.4	911.4	911.4	911.4	911.4	911.4	908.8	906.2	903.6	898.4
10°	914.0	914.0	916.6	916.6	921.7	924.3	924.3	926.9	924.3	919.1	914.0
12.5°	921.7	924.3	924.3	926.9	934.7	937.3	939.9	947.7	947.7	942.5	937.3
15°	937.3	937.3	939.9	945.1	955.5	958.1	965.9	973.7	978.9	973.7	968.5
17.5°	984.1	984.1	984.1	984.1	989.3	991.9	1002.2	1015.2	1020.4	1020.4	1017.8
20°	1077.5	1077.5	1072.3	1062.0	1056.8	1056.8	1054.2	1059.4	1069.7	1077.5	1080.1
22.5°	1184.0	1181.4	1178.8	1163.2	1145.0	1139.8	1134.7	1129.5	1134.7	1147.6	1152.8
25°	1267.1	1269.7	1267.1	1246.3	1230.7	1228.1	1220.3	1222.9	1222.9	1225.5	1233.3
27.5°	1334.6	1339.8	1329.4	1319.0	1308.6	1300.8	1306.0	1313.8	1326.8	1321.6	1337.2
30°	1409.9	1407.3	1396.9	1383.9	1376.1	1373.5	1370.9	1399.5	1435.8	1451.4	1469.6
32.5°	1544.9	1542.3	1521.5	1456.6	1438.4	1438.4	1443.6	1480.0	1537.1	1586.4	1633.2
35°	1669.5	1669.5	1643.6	1599.4	1521.5	1498.2	1511.1	1555.3	1638.4	1737.0	1812.3
37.5°	1817.5	1820.1	1791.6	1724.1	1661.7	1638.4	1576.1	1638.4	1739.6	1929.2	2022.6
40°	1988.9	1983.7	1937.0	1864.3	1783.8	1765.6	1713.7	1726.7	1869.5	2155.1	2245.9
42.5°	2085.0	2079.8	2048.6	1991.5	1926.6	1905.8	1859.1	1846.1	2043.4	2404.3	2464.0
45°	2178.4	2183.6	2181.0	2152.5	2136.9	2123.9	2097.9	2100.5	2258.9	2651.0	2653.6
47.5°	2233.0	2243.3	2201.8	2199.2	2201.8	2201.8	2238.2	2310.9	2464.0	2861.3	2819.8
50°	2393.9	2383.6	2256.3	2261.5	2295.3	2310.9	2378.4	2484.8	2749.7	3043.1	2962.6
52.5°	2718.5	2645.8	2484.8	2406.9	2419.9	2458.9	2539.3	2692.5	3035.3	3222.2	3089.8
55°	3082.0	3050.8	2884.7	2684.7	2596.5	2645.8	2731.5	2892.5	3261.2	3375.4	3196.3
57.5°	3333.9	3346.8	3352.0	3191.1	2882.1	2897.7	2952.2	3092.4	3463.7	3531.2	3276.7
60°	3577.9	3596.1	3694.8	3671.4	3570.1	3455.9	3243.0	3289.7	3637.7	3642.8	3339.1
62.5°	3772.7	3783.1	3941.4	4014.1	4195.9	4203.7	3858.4	3562.4	3814.2	3723.3	3362.4
65°	3674.0	3702.6	3933.6	4154.3	4671.0	4728.2	4593.2	3910.3	3949.2	3759.7	3346.8
67.5°	3341.7	3388.4	3606.5	4112.8	4967.0	5006.0	4886.6	4541.2	3998.6	3746.7	3261.2
70°	2879.5	2900.3	3149.5	3780.5	5021.6	5039.7	4891.7	4673.6	3964.8	3671.4	3082.0
72.5°	2342.0	2365.4	2580.9	3250.8	4774.9	4790.5	4751.5	4569.8	3884.3	3531.2	2718.5
75°	1757.8	1794.2	1999.3	2539.3	4216.7	4349.1	4429.6	4351.7	3661.0	3066.4	2069.4
77.5°	1160.6	1163.2	1370.9	1918.8	3341.7	3474.1	3487.1	3422.1	2599.1	1924.0	919.1
80°	498.5	545.3	802.3	1287.8	2220.0	2243.3	2269.3	2097.9	1332.0	594.6	101.3
82.5°	166.2	184.3	337.5	680.3	1093.1	1119.1	1072.3	929.5	373.9	80.5	57.1
85°	70.1	77.9	103.9	186.9	264.8	241.5	225.9	184.3	51.9	46.7	36.4
87.5°	2.6	2.6	2.6	2.6	5.2	2.6	5.2	5.2	7.8	7.8	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



REPORT NUMBER: P507724

CATALOG NUMBER: VERD-S-CA1-80-727-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2	880.2
2.5°	880.2	880.2	880.2	877.6	877.6	875.0	875.0	872.4	872.4	872.4	872.4
5°	885.4	885.4	880.2	877.6	872.4	867.2	862.0	856.8	851.6	851.6	851.6
7.5°	895.8	893.2	885.4	875.0	864.6	851.6	843.9	833.5	828.3	823.1	825.7
10°	911.4	906.2	895.8	880.2	859.4	838.7	820.5	804.9	797.1	789.3	786.7
12.5°	932.1	926.9	911.4	888.0	856.8	825.7	797.1	773.7	758.2	750.4	747.8
15°	963.3	955.5	934.7	901.0	856.8	810.1	771.2	737.4	711.4	695.9	695.9
17.5°	1012.6	1004.8	976.3	929.5	867.2	802.3	742.6	685.5	651.7	633.5	630.9
20°	1077.5	1067.1	1033.4	965.9	885.4	799.7	711.4	638.7	581.6	550.5	547.9
22.5°	1152.8	1145.0	1093.1	1004.8	903.6	794.5	688.1	592.0	511.5	454.4	441.4
25°	1241.1	1228.1	1150.2	1036.0	908.8	781.5	654.3	542.7	431.0	360.9	347.9
27.5°	1345.0	1316.4	1202.2	1059.4	906.2	755.6	615.4	472.6	327.2	275.2	267.4
30°	1456.6	1407.3	1254.1	1074.9	890.6	714.0	547.9	353.1	236.3	205.1	197.3
32.5°	1583.8	1506.0	1300.8	1077.5	856.8	656.9	433.6	241.5	168.8	150.6	148.0
35°	1737.0	1630.6	1350.2	1067.1	807.5	563.4	301.2	163.6	124.6	119.4	119.4
37.5°	1937.0	1789.0	1404.7	1036.0	732.2	436.2	199.9	111.6	109.1	111.6	111.6
40°	2147.3	1970.7	1472.2	989.3	636.1	314.2	127.2	103.9	103.9	106.5	106.5
42.5°	2347.2	2144.7	1557.9	926.9	527.1	202.5	103.9	98.7	96.1	98.7	101.3
45°	2516.0	2308.3	1641.0	859.4	402.5	129.8	101.3	93.5	88.3	90.9	90.9
47.5°	2666.6	2432.9	1687.7	778.9	283.0	101.3	101.3	85.7	80.5	80.5	83.1
50°	2793.8	2531.6	1713.7	685.5	179.2	98.7	90.9	80.5	75.3	75.3	72.7
52.5°	2900.3	2604.3	1711.1	581.6	116.8	96.1	85.7	75.3	67.5	70.1	70.1
55°	2980.7	2661.4	1672.1	446.6	98.7	90.9	83.1	70.1	64.9	70.1	70.1
57.5°	3043.1	2687.3	1599.4	311.6	96.1	83.1	77.9	64.9	59.7	62.3	62.3
60°	3074.2	2674.4	1485.2	194.7	93.5	80.5	72.7	59.7	54.5	51.9	54.5
62.5°	3063.8	2627.6	1321.6	129.8	88.3	75.3	67.5	57.1	49.3	44.1	44.1
65°	3001.5	2523.8	1126.9	109.1	85.7	75.3	64.9	54.5	44.1	41.5	41.5
67.5°	2861.3	2308.3	836.1	101.3	85.7	72.7	62.3	51.9	44.1	38.9	38.9
70°	2573.1	1921.4	402.5	93.5	85.7	75.3	62.3	49.3	41.5	36.4	36.4
72.5°	2082.4	1358.0	103.9	80.5	83.1	75.3	64.9	49.3	38.9	33.8	33.8
75°	1358.0	651.7	88.3	64.9	75.3	70.1	62.3	49.3	38.9	31.2	31.2
77.5°	441.4	90.9	80.5	57.1	67.5	67.5	62.3	49.3	38.9	28.6	28.6
80°	70.1	64.9	70.1	44.1	49.3	57.1	49.3	46.7	36.4	26.0	26.0
82.5°	49.3	59.7	51.9	36.4	44.1	46.7	38.9	31.2	26.0	23.4	23.4
85°	36.4	38.9	31.2	28.6	33.8	38.9	31.2	23.4	20.8	20.8	20.8
87.5°	13.0	15.6	15.6	20.8	26.0	28.6	18.2	13.0	15.6	15.6	15.6
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)