

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: P509152

Luminaire Tested: **VERD-CA2-120-722-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-120-722-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12668 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

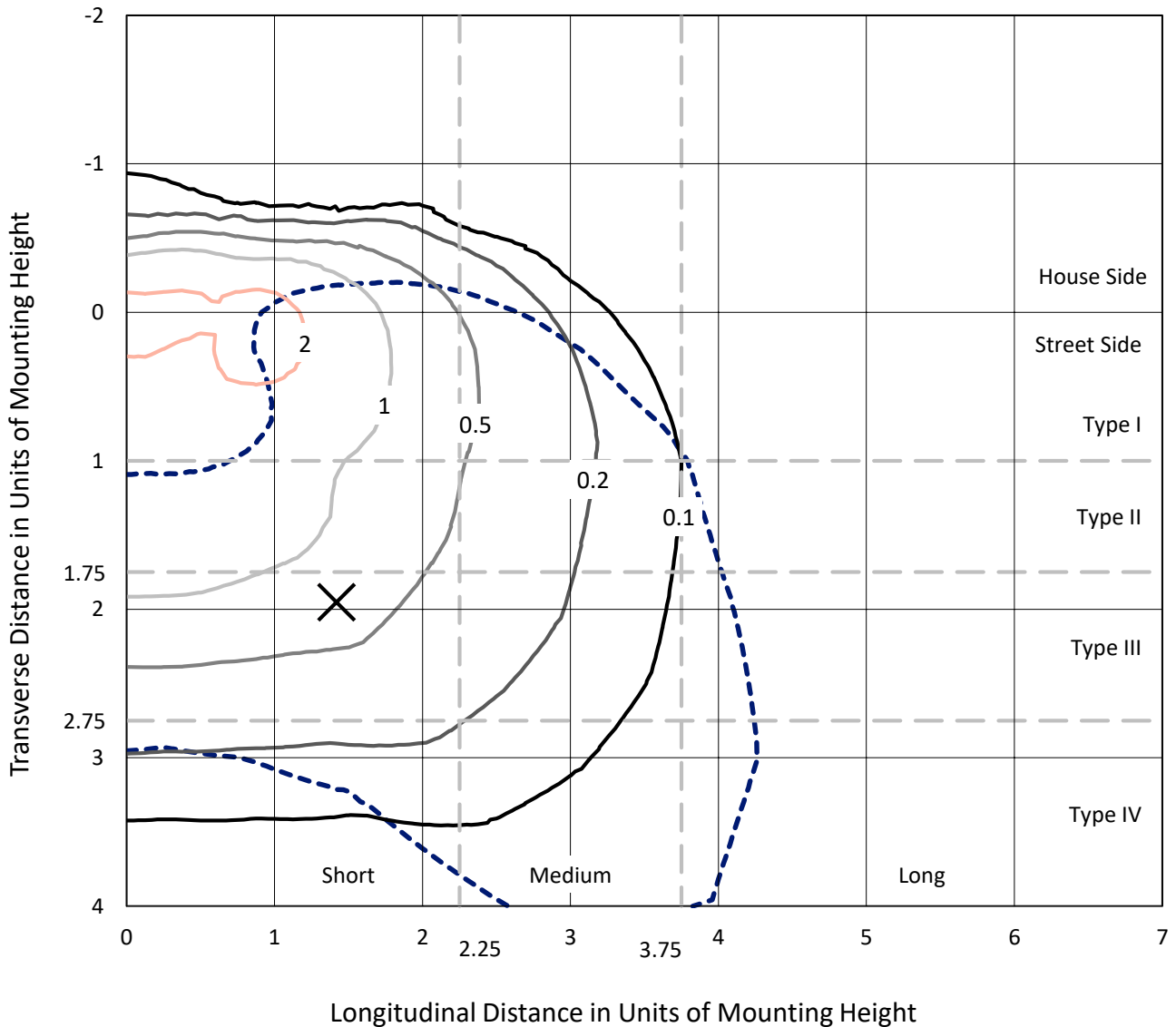
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

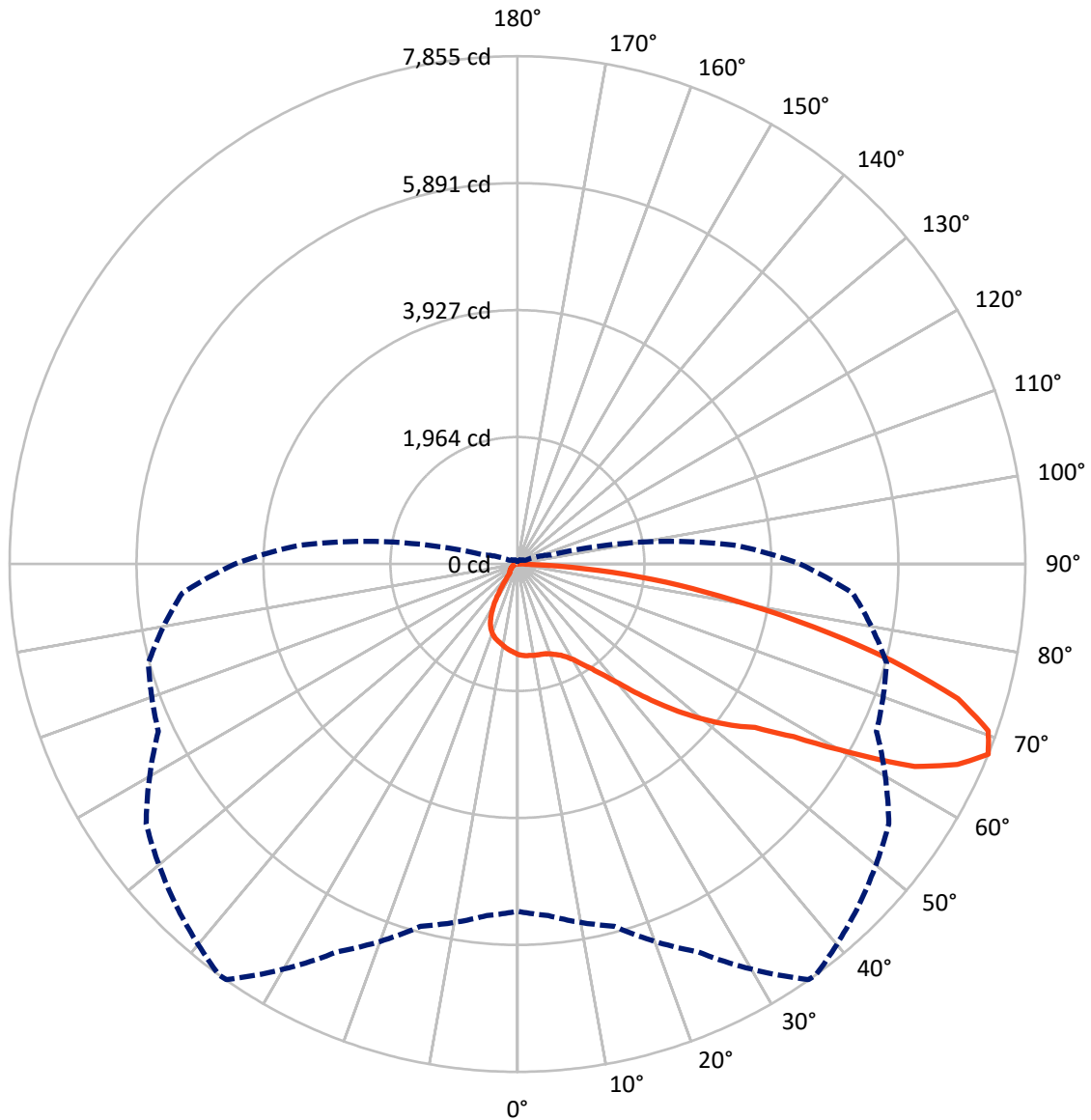
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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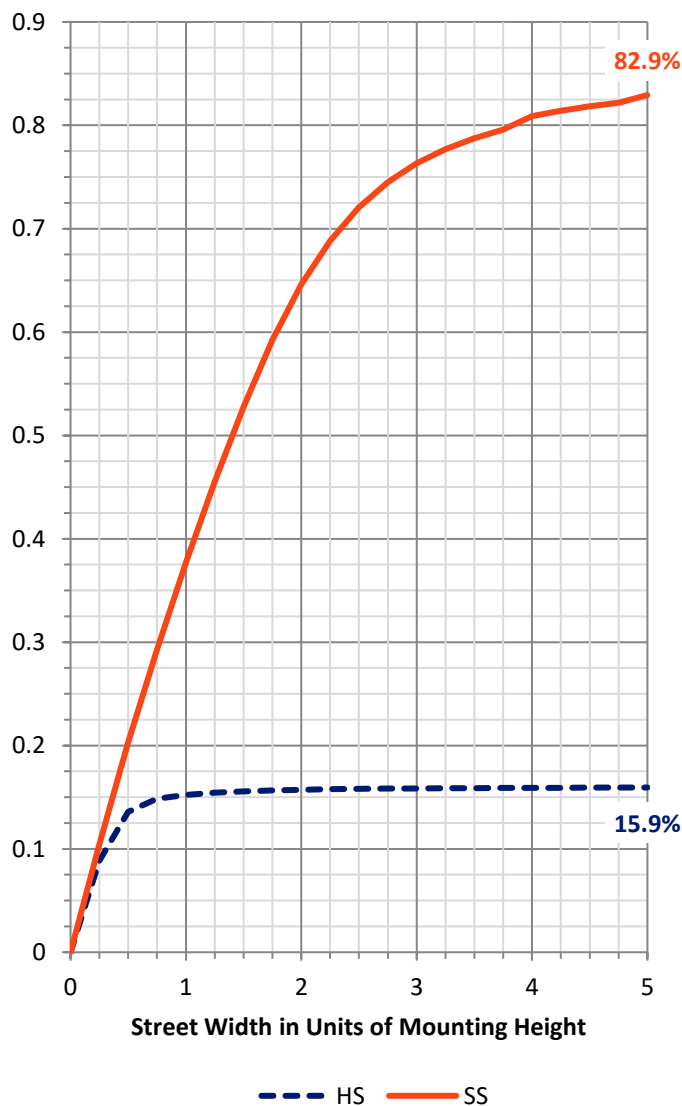
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2042.9	0.0	2042.9
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	10625.1	0.0	10625.1
	% Fixture	83.9	0.0	83.9
Total	Lumens	12668.0	0.0	12668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.0
10°-20°	391.4	3.1
20°-30°	647.4	5.1
30°-40°	1026.9	8.1
40°-50°	1772.4	14.0
50°-60°	2627.2	20.7
60°-70°	3396.6	26.8
70°-80°	2292.8	18.1
80°-90°	381.1	3.0
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°	12668.0	100.0
0°-180°	12668.0	100.0

Coefficient of Utilization



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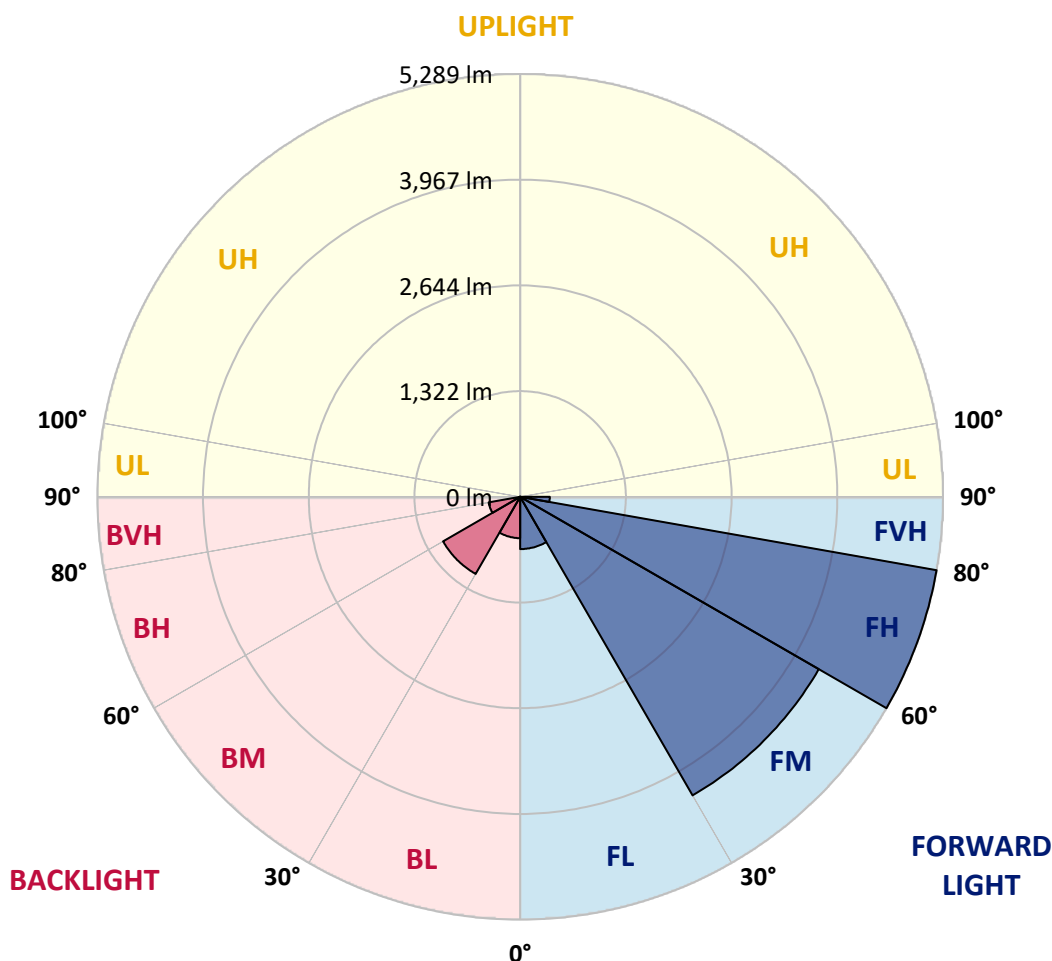
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.9	5.2			
FM	(30°-60°)	4312.0	34.0			
FH	(60°-80°)	5288.9	41.8			G3/7500
FVH	(80°-90°)	370.3	2.9			G3/500
BL	(0°-30°)	517.0	4.1	B2/1000		
BM	(30°-60°)	1114.6	8.8	B2/2500		
BH	(60°-80°)	400.5	3.2	B1/500		G1/500
BVH	(80°-90°)	10.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0
2.5°	1406.1	1419.7	1418.2	1416.7	1416.7	1415.2	1406.1	1397.0	1401.6	1400.0	1398.5
5°	1412.2	1425.8	1424.3	1422.8	1422.8	1424.3	1410.7	1400.0	1403.1	1406.1	1404.6
7.5°	1415.2	1427.3	1424.3	1422.8	1421.3	1425.8	1415.2	1416.7	1419.7	1419.7	1419.7
10°	1419.7	1428.8	1428.8	1430.4	1431.9	1436.4	1431.9	1436.4	1448.5	1445.5	1453.1
12.5°	1407.6	1418.2	1422.8	1430.4	1437.9	1441.0	1445.5	1457.6	1472.8	1480.4	1487.9
15°	1403.1	1413.7	1421.3	1430.4	1442.5	1445.5	1457.6	1478.8	1497.0	1512.2	1528.8
17.5°	1418.2	1430.4	1441.0	1447.0	1453.1	1457.6	1469.7	1497.0	1528.8	1556.1	1580.4
20°	1447.0	1459.1	1471.3	1477.3	1481.9	1484.9	1494.0	1519.8	1560.7	1603.1	1637.9
22.5°	1480.4	1492.5	1506.1	1510.7	1521.3	1521.3	1522.8	1548.5	1598.5	1656.1	1698.5
25°	1516.7	1524.3	1536.4	1544.0	1559.1	1562.2	1566.7	1589.5	1651.6	1716.7	1783.4
27.5°	1559.1	1574.3	1586.4	1595.5	1625.8	1627.3	1624.3	1653.1	1713.7	1794.0	1887.9
30°	1636.4	1653.1	1665.2	1680.4	1719.8	1718.2	1737.9	1768.2	1803.1	1891.0	2016.7
32.5°	1759.2	1760.7	1766.7	1786.4	1842.5	1848.6	1886.4	1941.0	2010.7	2066.7	2200.1
35°	1983.4	1975.8	1957.6	1954.6	1992.5	1995.5	2069.8	2184.9	2336.4	2522.8	2728.9
37.5°	2245.5	2265.2	2244.0	2178.9	2184.9	2186.4	2274.3	2421.3	2703.1	3169.8	3365.3
40°	2706.2	2716.8	2584.9	2481.9	2445.5	2428.9	2474.3	2697.1	3057.7	3665.3	3803.2
42.5°	3112.2	3112.2	2989.5	2830.4	2738.0	2750.1	2736.5	2957.7	3421.3	4095.6	4145.6
45°	3518.3	3504.7	3392.5	3259.2	3097.1	3086.5	3051.6	3221.3	3756.2	4404.7	4406.2
47.5°	3897.1	3928.9	3760.7	3613.8	3448.6	3441.0	3378.9	3510.7	4077.4	4675.9	4635.0
50°	4295.6	4339.5	4128.9	3963.8	3785.0	3795.6	3744.1	3836.5	4397.1	4929.0	4854.7
52.5°	4862.3	4780.5	4528.9	4300.2	4115.3	4145.6	4092.6	4147.1	4729.0	5130.5	4975.9
55°	5469.9	5324.4	5115.3	4732.0	4463.8	4460.8	4421.4	4486.5	5063.8	5360.8	5113.8
57.5°	5795.7	5839.6	5791.1	5480.5	5047.1	5039.6	4803.2	4810.8	5371.4	5557.8	5306.2
60°	6166.9	6221.4	6327.5	6133.6	5916.9	5922.9	5333.5	5157.8	5695.7	5715.4	5321.4
62.5°	6363.9	6369.9	6613.9	6682.1	6857.8	6897.2	6450.2	5582.0	5910.8	5836.6	5347.2
65°	6015.4	6026.0	6495.7	6839.6	7426.0	7479.1	7286.6	6403.3	6071.4	5900.2	5322.9
67.5°	5371.4	5457.8	5800.2	6621.4	7847.2	7854.8	7466.9	7010.9	6127.5	5909.3	5206.2
70°	4501.7	4471.4	4904.7	5891.1	7782.1	7726.0	7388.1	7080.6	6086.6	5785.1	4674.4
72.5°	3338.0	3292.5	3739.5	4736.5	7019.9	7126.0	7035.1	6673.0	5932.0	5321.4	3794.1
75°	2284.9	2338.0	2739.5	3571.3	5830.5	5991.1	6392.7	6357.8	5277.5	4410.8	2597.1
77.5°	1563.7	1586.4	1930.4	2657.7	4621.4	4683.5	5348.7	5136.5	3880.4	2710.7	866.7
80°	1018.2	1010.6	1319.7	1892.5	3388.0	3380.4	3819.8	3250.1	2091.0	924.3	119.7
82.5°	568.2	601.5	790.9	1244.0	2289.5	2313.7	2384.9	1777.3	804.6	107.6	75.8
85°	319.7	333.3	454.6	704.6	1200.0	1260.7	1063.7	653.1	143.9	59.1	43.9
87.5°	75.8	72.7	145.5	269.7	200.0	216.7	103.0	30.3	15.2	10.6	10.6
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°	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0	1400.0
2.5°	1398.5	1395.5	1392.5	1386.4	1381.9	1368.2	1369.7	1378.8	1369.7	1384.9	1375.8
5°	1401.6	1397.0	1389.4	1371.3	1357.6	1347.0	1344.0	1342.5	1330.4	1344.0	1337.9
7.5°	1413.7	1409.1	1392.5	1372.8	1353.1	1321.3	1316.7	1310.7	1287.9	1297.0	1289.4
10°	1442.5	1436.4	1407.6	1380.4	1350.0	1307.6	1283.4	1265.2	1239.4	1242.5	1234.9
12.5°	1478.8	1472.8	1439.4	1394.0	1351.6	1292.5	1250.0	1215.2	1177.3	1177.3	1169.7
15°	1521.3	1515.2	1477.3	1424.3	1357.6	1280.3	1216.7	1160.6	1100.0	1092.5	1083.4
17.5°	1578.8	1569.8	1525.8	1457.6	1374.3	1269.7	1183.4	1100.0	1007.6	978.8	963.7
20°	1637.9	1627.3	1589.5	1504.6	1397.0	1259.1	1134.9	1021.2	901.5	842.5	831.8
22.5°	1713.7	1710.7	1663.7	1545.5	1404.6	1236.4	1074.3	933.4	772.8	690.9	674.3
25°	1803.1	1798.5	1725.8	1577.3	1395.5	1191.0	987.9	807.6	627.3	545.5	527.3
27.5°	1909.2	1897.0	1778.9	1584.9	1369.7	1119.7	877.3	645.5	463.7	394.0	380.3
30°	2021.3	2003.1	1834.9	1586.4	1318.2	1031.9	731.8	474.3	328.8	278.8	278.8
32.5°	2209.2	2147.0	1889.5	1565.2	1244.0	906.1	557.6	319.7	230.3	210.6	210.6
35°	2612.2	2463.7	1975.8	1537.9	1147.0	750.0	378.8	216.7	192.4	192.4	190.9
37.5°	3216.8	2941.0	2122.8	1492.5	1015.2	557.6	250.0	178.8	183.3	183.3	183.3
40°	3603.2	3313.8	2322.8	1421.3	863.7	378.8	178.8	169.7	172.7	175.8	175.8
42.5°	3963.8	3638.0	2522.8	1322.8	697.0	242.4	166.7	159.1	160.6	160.6	162.1
45°	4192.6	3878.9	2671.3	1218.2	513.7	172.7	163.6	150.0	145.5	145.5	148.5
47.5°	4404.7	4036.5	2736.5	1080.3	331.8	162.1	156.1	139.4	133.3	131.8	131.8
50°	4616.8	4198.6	2772.8	916.7	207.6	156.1	143.9	127.3	121.2	119.7	119.7
52.5°	4710.8	4250.2	2691.0	731.8	154.6	150.0	134.9	116.7	107.6	107.6	107.6
55°	4809.3	4345.6	2553.1	524.3	147.0	139.4	124.2	104.5	97.0	100.0	100.0
57.5°	4918.4	4277.4	2406.1	340.9	145.5	125.8	110.6	93.9	87.9	90.9	92.4
60°	4885.0	4294.1	2195.5	228.8	139.4	115.2	100.0	83.3	78.8	78.8	78.8
62.5°	4885.0	4165.3	1850.1	174.2	127.3	106.1	92.4	77.3	69.7	66.7	63.6
65°	4756.2	3860.7	1351.6	151.5	113.6	98.5	83.3	68.2	59.1	54.5	53.0
67.5°	4366.8	3356.2	544.0	137.9	104.5	90.9	77.3	62.1	51.5	45.5	43.9
70°	3712.3	2477.4	156.1	122.7	106.1	84.9	72.7	54.5	45.5	37.9	36.4
72.5°	2751.6	1309.1	127.3	97.0	93.9	72.7	68.2	51.5	39.4	31.8	30.3
75°	1389.4	178.8	109.1	69.7	72.7	75.8	65.2	45.5	36.4	25.8	24.2
77.5°	143.9	106.1	95.5	47.0	51.5	53.0	56.1	42.4	31.8	21.2	19.7
80°	89.4	80.3	93.9	40.9	30.3	36.4	37.9	33.3	25.8	16.7	16.7
82.5°	63.6	68.2	69.7	25.8	22.7	21.2	19.7	19.7	22.7	15.2	15.2
85°	43.9	45.5	28.8	16.7	15.2	13.6	12.1	12.1	10.6	12.1	10.6
87.5°	10.6	9.1	9.1	9.1	7.6	7.6	6.1	6.1	6.1	6.1	7.6
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)