

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: P507738

Luminaire Tested: **VERD-S-CA1-80-740-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-80-740-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1500mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10099 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

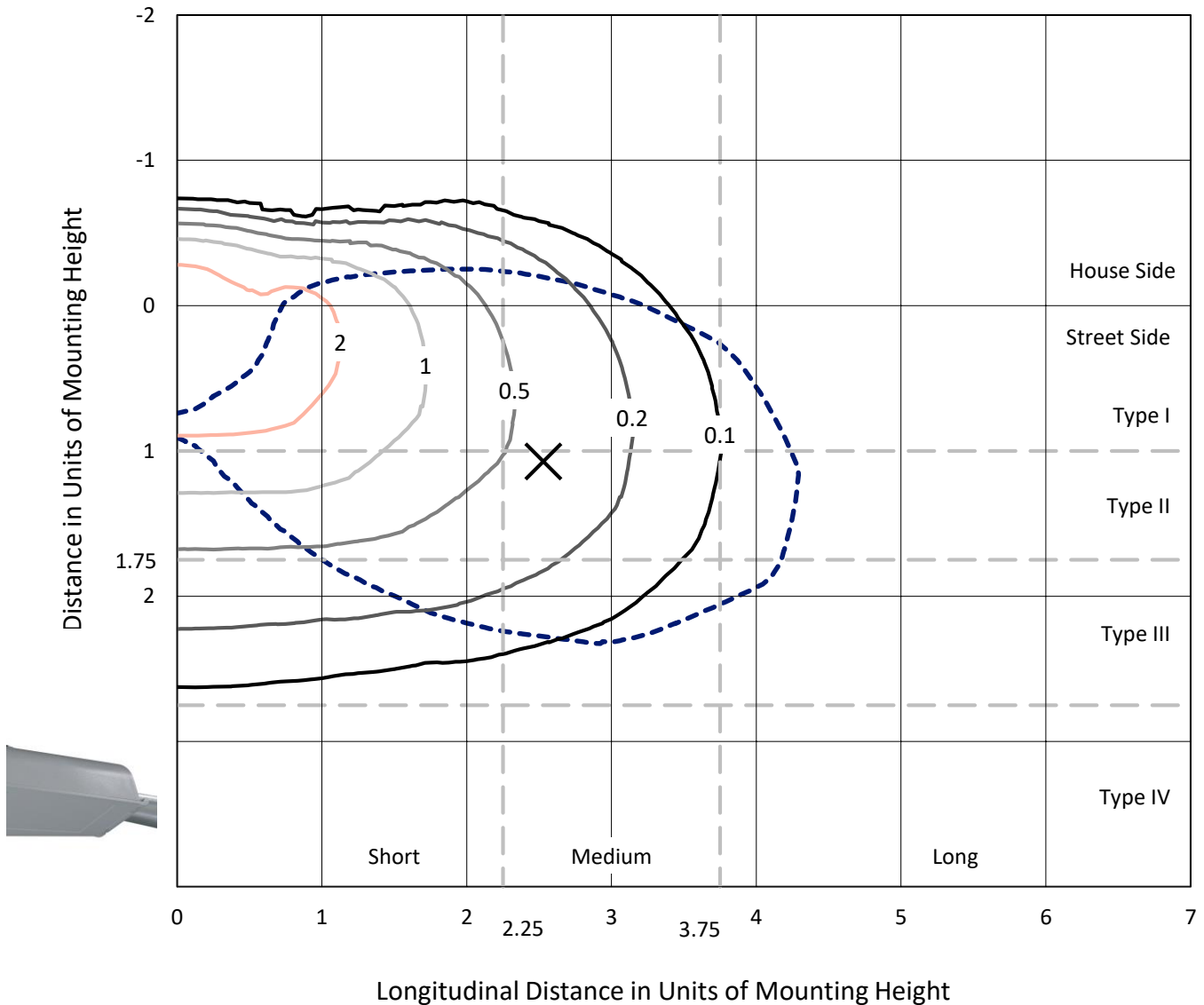
Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

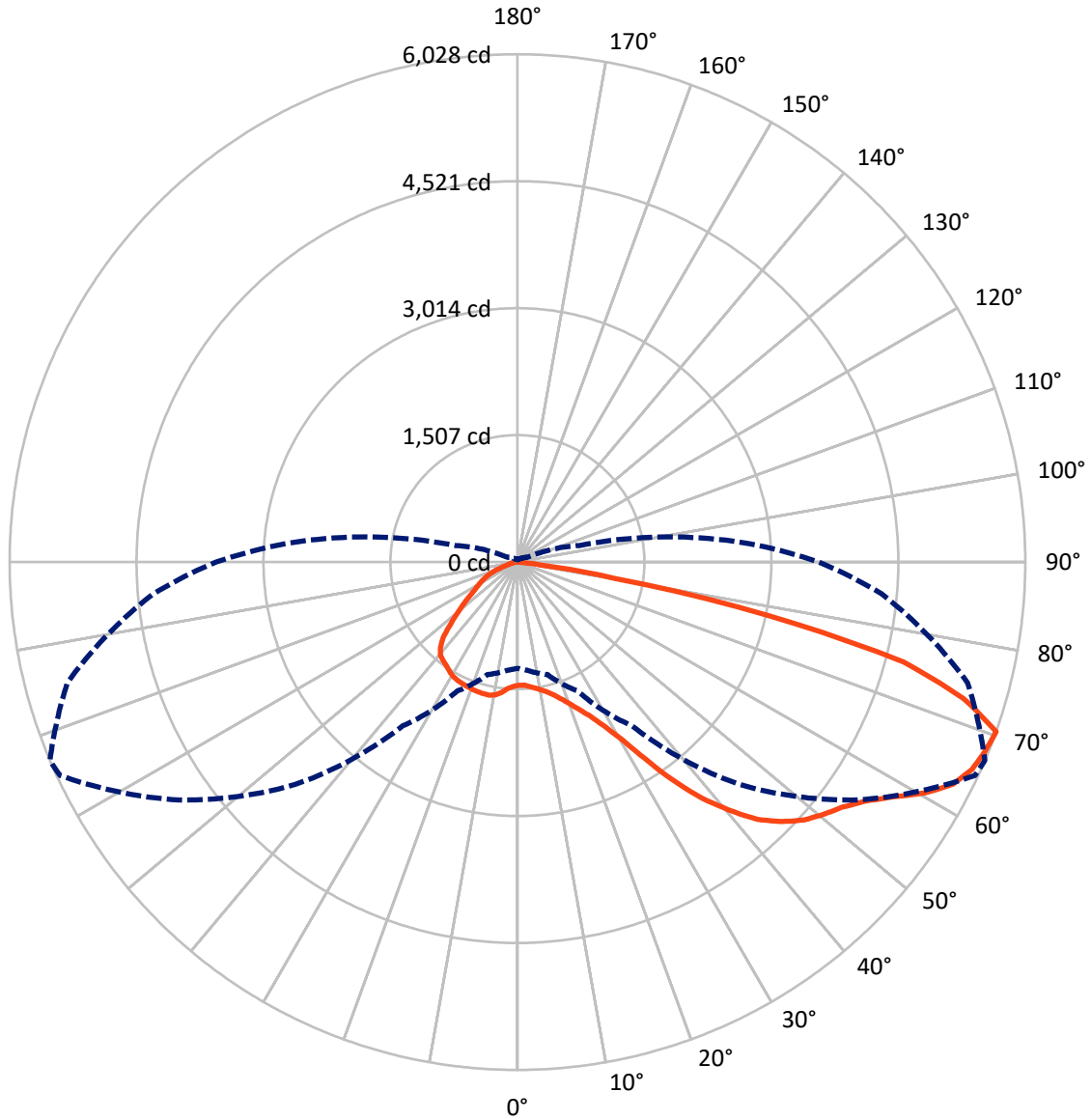
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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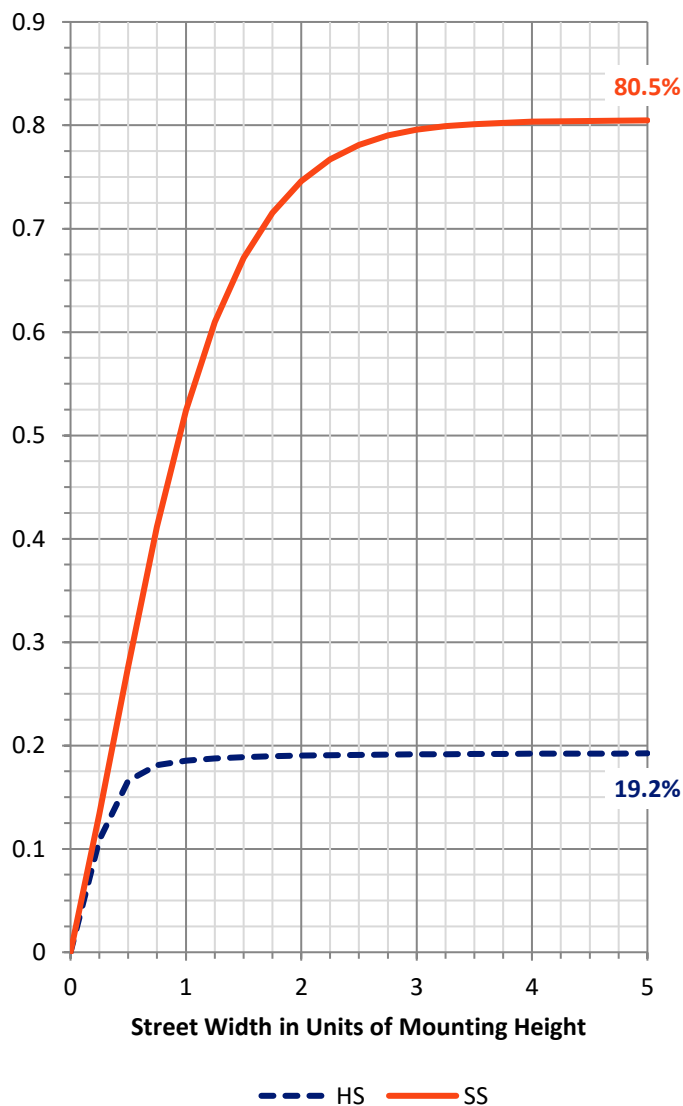
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1968.1	0.0	1968.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8130.9	0.0	8130.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	10099.0	0.0	10099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	1.5
10°-20°	466.2	4.6
20°-30°	810.2	8.0
30°-40°	1268.7	12.6
40°-50°	1785.0	17.7
50°-60°	2129.0	21.1
60°-70°	2206.1	21.8
70°-80°	1217.4	12.1
80°-90°	69.3	0.7
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°	10099.0	100.0
0°-180°	10099.0	100.0

Coefficient of Utilization



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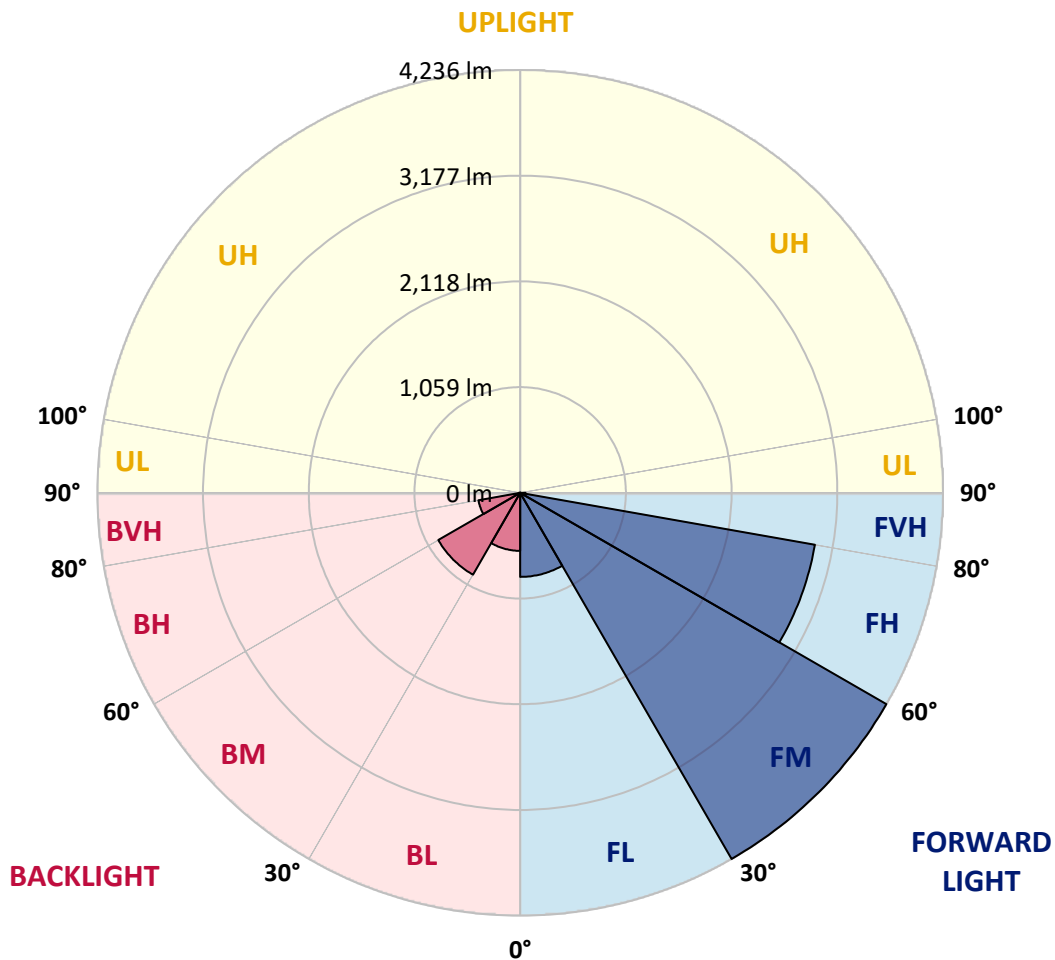
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.4	8.3			
FM (30°-60°)	4236.0	41.9			
FH (60°-80°)	2998.6	29.7			G2/5000
FVH (80°-90°)	53.9	0.5			G1/100
BL (0°-30°)	581.1	5.8	B2/1000		
BM (30°-60°)	946.7	9.4	B1/1000		
BH (60°-80°)	424.9	4.2	B1/500		G1/500
BVH (80°-90°)	15.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5
2.5°	1471.7	1471.7	1471.7	1468.6	1468.6	1468.6	1465.6	1462.5	1462.5	1462.5	1465.6
5°	1511.6	1511.6	1508.5	1505.4	1502.4	1493.2	1487.0	1484.0	1484.0	1480.9	1487.0
7.5°	1560.6	1560.6	1560.6	1554.5	1545.3	1533.0	1520.8	1511.6	1508.5	1505.4	1508.5
10°	1634.2	1634.2	1628.1	1618.9	1603.5	1585.2	1563.7	1545.3	1542.2	1536.1	1542.2
12.5°	1729.3	1720.1	1713.9	1698.6	1680.2	1649.5	1615.8	1588.2	1582.1	1576.0	1597.4
15°	1827.4	1824.3	1809.0	1799.8	1769.1	1729.3	1683.3	1646.5	1640.3	1628.1	1646.5
17.5°	1943.9	1946.9	1940.8	1925.5	1882.6	1824.3	1769.1	1717.0	1710.9	1701.7	1710.9
20°	2103.3	2097.2	2084.9	2063.5	2014.4	1937.7	1867.2	1809.0	1799.8	1793.6	1784.4
22.5°	2262.7	2265.8	2241.3	2219.8	2158.5	2084.9	1989.9	1919.4	1907.1	1904.0	1861.1
25°	2416.1	2422.2	2413.0	2385.4	2333.3	2238.2	2134.0	2048.1	2032.8	2029.7	1956.1
27.5°	2575.5	2578.6	2587.8	2575.5	2520.3	2422.2	2305.7	2207.6	2207.6	2183.0	2072.7
30°	2728.8	2734.9	2741.1	2741.1	2713.5	2627.6	2526.4	2440.6	2440.6	2422.2	2232.1
32.5°	2848.4	2851.4	2888.2	2918.9	2918.9	2857.6	2790.1	2780.9	2777.8	2811.6	2596.9
35°	2955.7	2964.9	3017.0	3099.8	3133.5	3109.0	3112.0	3145.8	3179.5	3262.3	3099.8
37.5°	3035.4	3047.7	3096.7	3191.8	3286.8	3351.2	3412.5	3504.5	3556.6	3682.3	3458.5
40°	3056.9	3072.2	3176.4	3311.3	3464.6	3611.8	3722.2	3835.6	3869.4	3958.3	3676.2
42.5°	2989.4	3004.7	3136.6	3409.5	3624.1	3854.0	3973.6	4117.7	4176.0	4142.2	3857.1
45°	2943.4	2952.6	3090.6	3400.3	3762.1	4090.1	4206.6	4356.9	4393.7	4313.9	4007.3
47.5°	2885.2	2894.4	3038.5	3388.0	3875.5	4292.5	4372.2	4537.8	4574.6	4451.9	4136.1
50°	2799.3	2805.4	2971.0	3363.5	3949.1	4436.6	4525.5	4691.1	4706.4	4580.7	4258.8
52.5°	2695.1	2713.5	2872.9	3305.2	4001.2	4525.5	4632.8	4810.6	4832.1	4746.3	4393.7
55°	2554.0	2575.5	2759.5	3219.4	3982.8	4556.2	4681.9	4970.1	5006.9	4936.3	4507.1
57.5°	2409.9	2440.6	2621.5	3099.8	3909.2	4602.1	4844.4	5206.2	5255.2	5123.4	4599.1
60°	2262.7	2275.0	2462.0	2937.3	3786.6	4648.1	5028.3	5515.8	5561.8	5307.3	4672.7
62.5°	2094.1	2109.4	2275.0	2713.5	3575.0	4605.2	5166.3	5776.4	5804.0	5460.6	4703.3
65°	1897.9	1897.9	2038.9	2440.6	3289.9	4451.9	5184.7	5911.4	5929.8	5558.8	4666.5
67.5°	1625.0	1637.3	1750.7	2103.3	2906.6	4151.4	5080.5	5942.0	5988.0	5620.1	4565.4
70°	1260.1	1287.7	1382.8	1686.3	2373.1	3734.5	4924.1	5991.1	6027.9	5531.2	4338.5
72.5°	861.6	889.2	975.0	1155.9	1710.9	2995.5	4455.0	5528.1	5537.3	5098.9	3897.0
75°	226.9	251.4	318.9	463.0	717.5	2014.4	3562.8	4681.9	4737.1	4409.0	3216.3
77.5°	67.5	67.5	82.8	107.3	147.2	410.9	1812.0	2983.3	3038.5	2906.6	2005.2
80°	52.1	52.1	61.3	73.6	95.0	211.6	628.5	1100.7	1168.2	1247.9	827.8
82.5°	33.7	36.8	39.9	42.9	42.9	85.8	168.6	282.1	279.0	303.5	266.7
85°	21.5	21.5	18.4	18.4	15.3	21.5	15.3	18.4	21.5	21.5	24.5
87.5°	3.1	0.0	0.0	0.0	0.0	3.1	3.1	6.1	6.1	6.1	9.2
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°	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5	1462.5
2.5°	1468.6	1471.7	1474.8	1477.8	1484.0	1484.0	1487.0	1487.0	1487.0	1487.0	1487.0
5°	1487.0	1490.1	1499.3	1508.5	1530.0	1542.2	1554.5	1563.7	1563.7	1569.8	1569.8
7.5°	1514.6	1523.8	1551.4	1563.7	1582.1	1600.5	1609.7	1612.7	1618.9	1618.9	1618.9
10°	1560.6	1569.8	1591.3	1600.5	1609.7	1609.7	1606.6	1603.5	1594.3	1591.3	1594.3
12.5°	1603.5	1615.8	1615.8	1612.7	1603.5	1591.3	1576.0	1560.6	1545.3	1533.0	1533.0
15°	1655.7	1649.5	1631.1	1606.6	1582.1	1551.4	1520.8	1493.2	1468.6	1459.4	1459.4
17.5°	1701.7	1686.3	1646.5	1600.5	1548.4	1499.3	1450.2	1404.3	1361.3	1346.0	1336.8
20°	1756.9	1729.3	1658.7	1588.2	1514.6	1438.0	1355.2	1272.4	1198.8	1168.2	1165.1
22.5°	1821.2	1775.2	1677.1	1569.8	1471.7	1355.2	1217.2	1100.7	1027.1	990.3	984.2
25°	1897.9	1830.4	1695.5	1554.5	1419.6	1247.9	1063.9	932.1	840.1	800.2	784.9
27.5°	1992.9	1904.0	1720.1	1536.1	1339.9	1116.0	907.6	754.2	653.1	604.0	597.9
30°	2115.6	1992.9	1744.6	1508.5	1241.8	962.7	738.9	567.2	466.0	417.0	404.7
32.5°	2397.7	2173.8	1775.2	1462.5	1119.1	815.6	558.0	380.2	279.0	233.0	230.0
35°	2876.0	2581.6	1845.8	1401.2	996.5	640.8	358.7	202.4	150.2	131.8	131.8
37.5°	3234.7	2922.0	2035.9	1321.5	837.0	429.2	184.0	119.6	95.0	92.0	92.0
40°	3449.3	3124.3	2244.4	1232.6	646.9	230.0	113.4	92.0	85.8	82.8	82.8
42.5°	3627.1	3292.9	2342.5	1122.2	410.9	128.8	95.0	85.8	79.7	76.7	76.7
45°	3774.3	3421.7	2354.7	981.1	230.0	107.3	88.9	76.7	73.6	70.5	70.5
47.5°	3890.8	3532.1	2324.1	781.8	144.1	101.2	82.8	70.5	64.4	64.4	64.4
50°	4001.2	3627.1	2238.2	616.3	134.9	95.0	76.7	64.4	61.3	61.3	61.3
52.5°	4102.4	3694.6	2094.1	496.7	125.7	88.9	73.6	61.3	55.2	58.3	58.3
55°	4185.2	3722.2	1946.9	383.3	119.6	85.8	70.5	58.3	52.1	52.1	52.1
57.5°	4231.2	3663.9	1824.3	291.3	116.5	82.8	67.5	55.2	46.0	42.9	42.9
60°	4234.2	3587.3	1710.9	245.3	110.4	76.7	64.4	49.1	39.9	36.8	36.8
62.5°	4179.0	3495.3	1539.2	211.6	104.2	73.6	58.3	46.0	36.8	33.7	33.7
65°	4071.7	3332.8	1349.1	180.9	101.2	73.6	52.1	42.9	36.8	30.7	30.7
67.5°	3900.0	3063.0	1094.6	159.4	95.0	67.5	52.1	39.9	33.7	30.7	30.7
70°	3575.0	2676.7	757.3	138.0	88.9	61.3	49.1	39.9	33.7	27.6	27.6
72.5°	3081.4	2173.8	374.1	113.4	76.7	61.3	49.1	36.8	30.7	27.6	27.6
75°	2382.3	1557.6	226.9	92.0	61.3	55.2	46.0	36.8	30.7	24.5	24.5
77.5°	1401.2	692.9	162.5	70.5	46.0	42.9	39.9	33.7	27.6	24.5	24.5
80°	512.0	294.3	119.6	55.2	36.8	36.8	30.7	27.6	24.5	21.5	21.5
82.5°	199.3	156.4	79.7	39.9	30.7	27.6	24.5	21.5	18.4	18.4	18.4
85°	27.6	27.6	27.6	21.5	18.4	18.4	15.3	15.3	12.3	12.3	12.3
87.5°	9.2	9.2	9.2	12.3	9.2	9.2	6.1	6.1	6.1	9.2	9.2
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)