

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: P157384

Luminaire Tested: **VST-F08-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157384
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F08-LED-E-U-5MQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19295.4 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

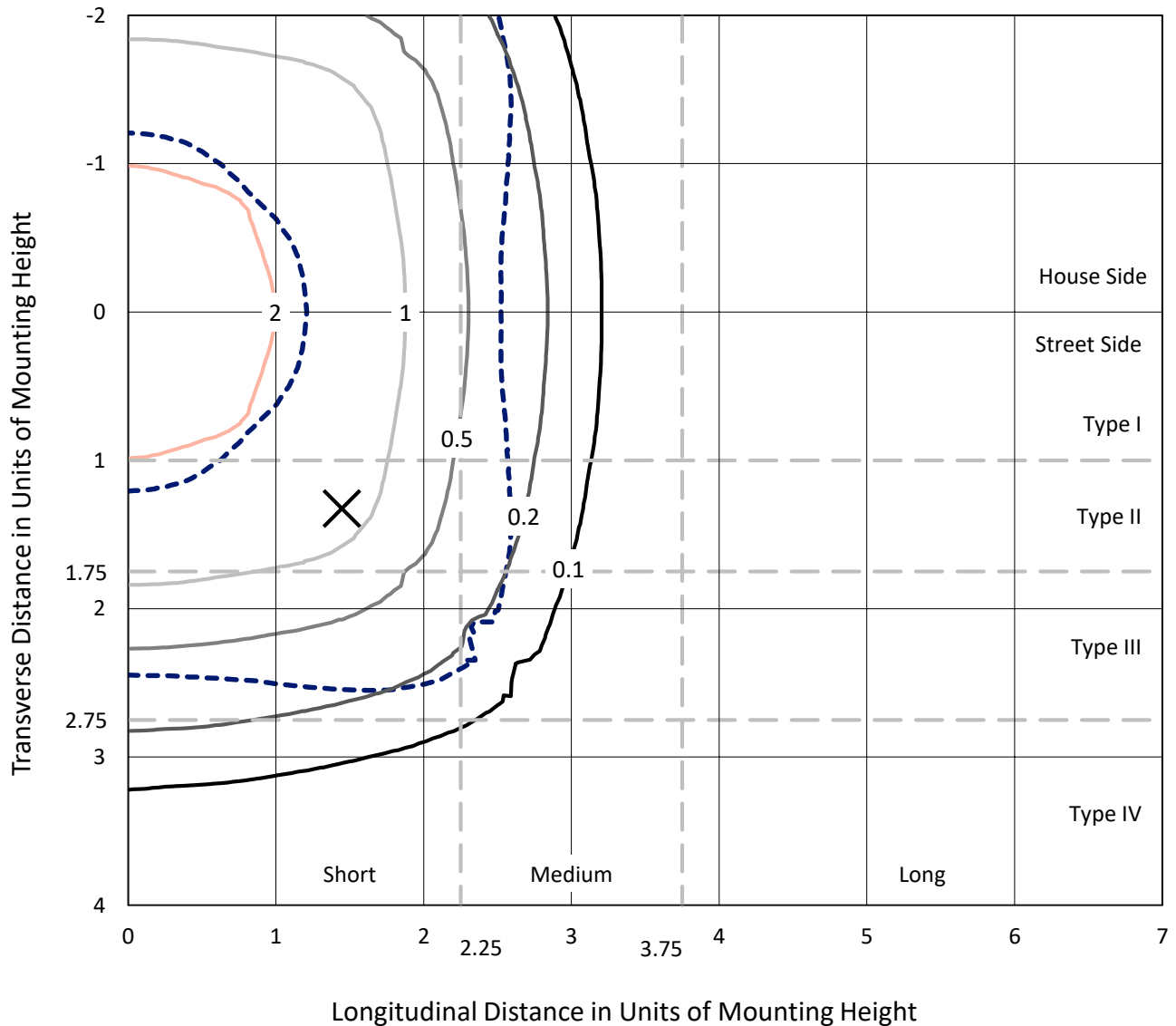
Input Watts (W): 204.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

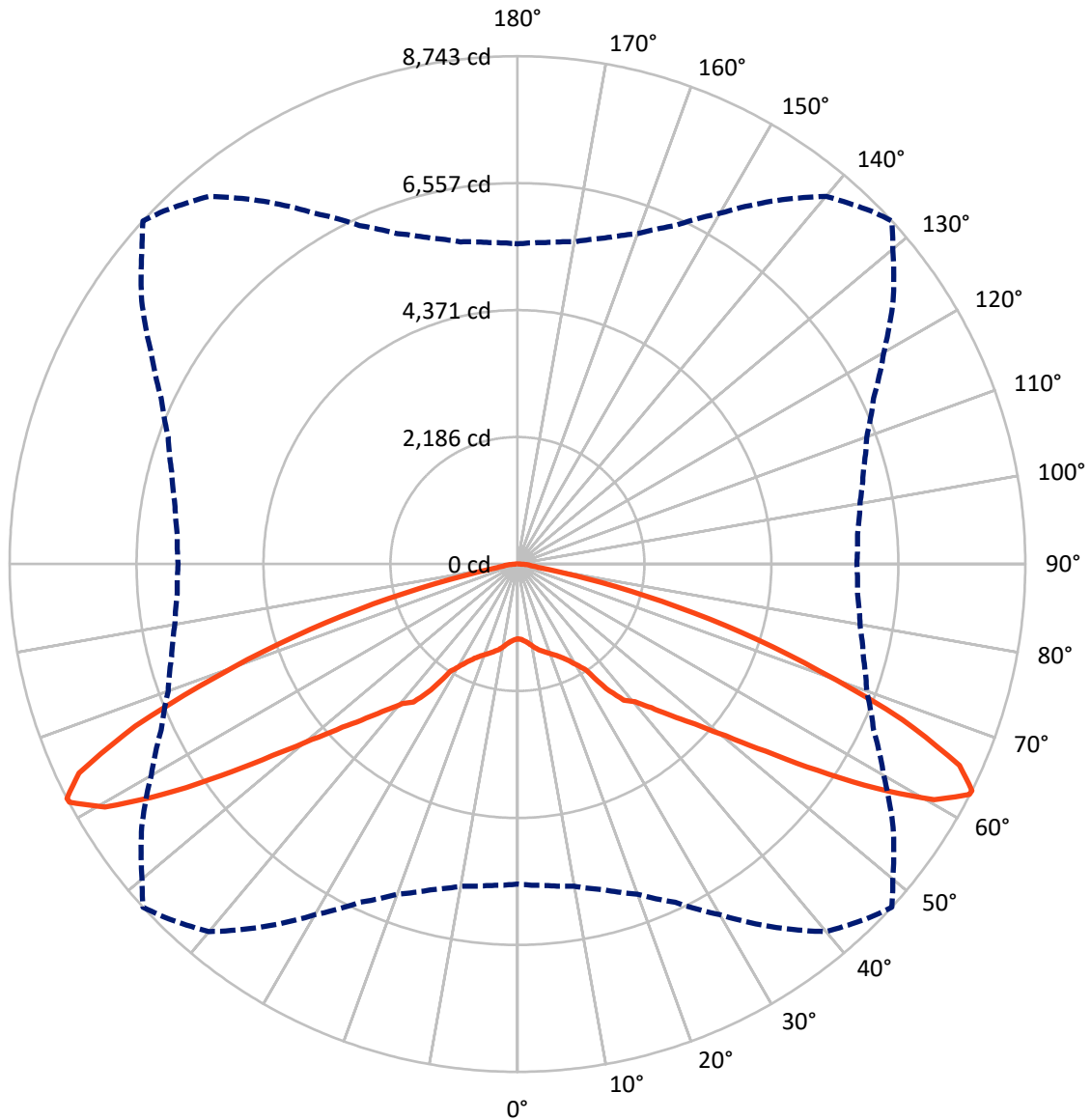
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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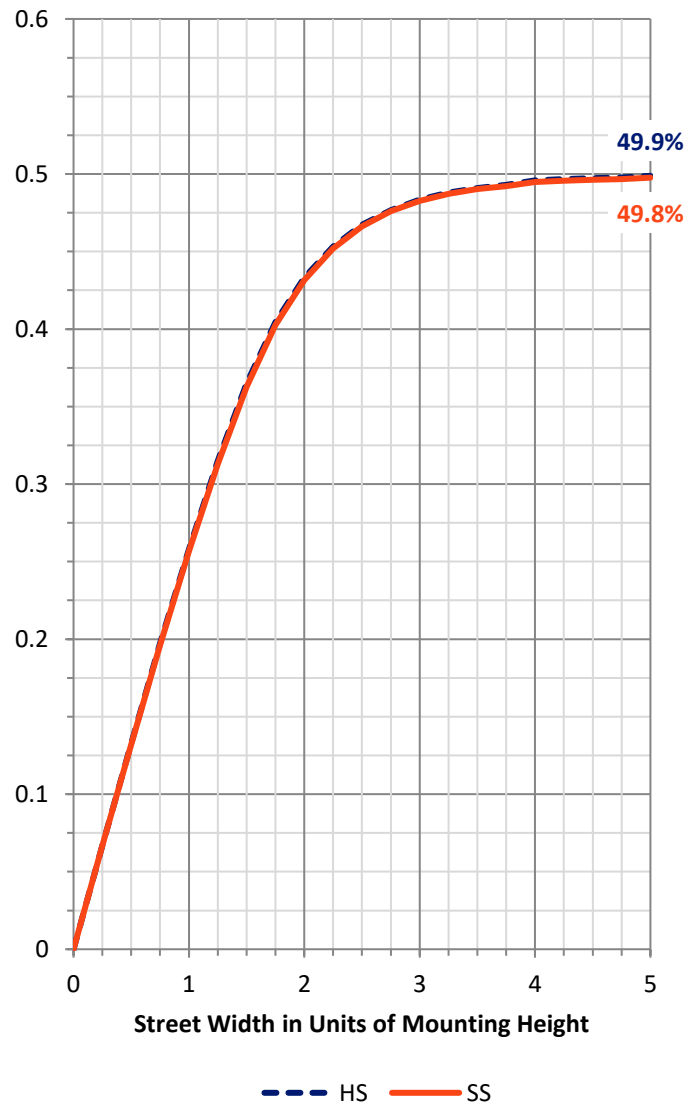
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9647.7	0.0	9647.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9647.7	0.0	9647.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	19295.4	0.0	19295.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	0.7
10°-20°	439.7	2.3
20°-30°	841.1	4.4
30°-40°	1608.9	8.3
40°-50°	2783.9	14.4
50°-60°	4999.7	25.9
60°-70°	6079.7	31.5
70°-80°	2195.7	11.4
80°-90°	217.5	1.1
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°	19295.4	100.0
0°-180°	19295.4	100.0

Coefficient of Utilization



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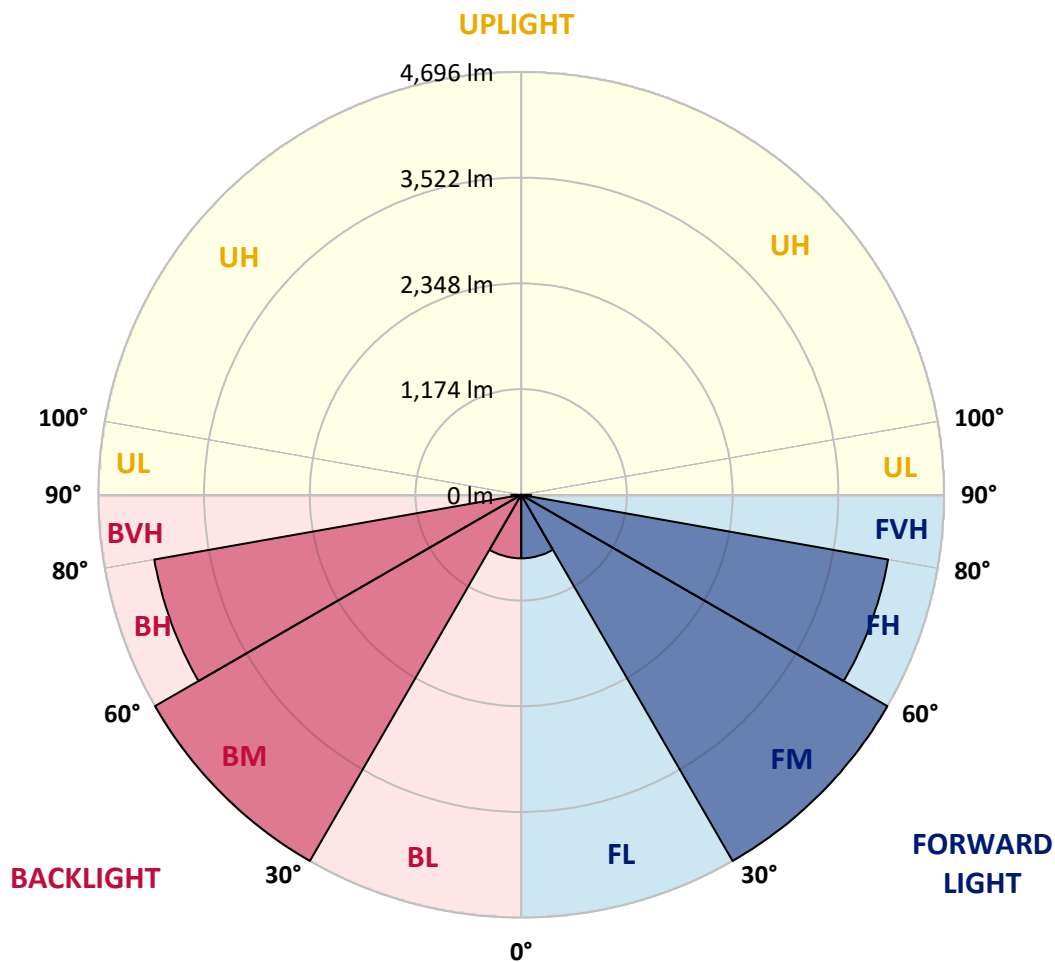
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	705.1	3.7			
FM	(30°-60°)	4696.2	24.3			
FH	(60°-80°)	4137.7	21.4			G2/5000
FVH	(80°-90°)	108.7	0.6			G2/225
BL	(0°-30°)	705.1	3.7	B2/1000		
BM	(30°-60°)	4696.2	24.3	B3/5000		
BH	(60°-80°)	4137.7	21.4	B4/5000		G2/5000
BVH	(80°-90°)	108.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1288.4	1288.4	1288.4	1288.4	1288.4	1288.4	1288.4	1288.4	1288.4	1288.4	1288.4
2.5°	1296.9	1294.5	1295.7	1296.9	1295.7	1294.5	1294.5	1294.5	1296.9	1294.5	1300.5
5°	1322.2	1319.8	1321.0	1321.0	1321.0	1318.6	1318.6	1318.6	1317.4	1318.6	1331.9
7.5°	1370.5	1366.8	1365.6	1368.0	1365.6	1364.4	1363.2	1363.2	1360.8	1360.8	1377.7
10°	1428.4	1423.5	1426.0	1427.2	1423.5	1421.1	1421.1	1421.1	1417.5	1416.3	1438.0
12.5°	1492.3	1489.9	1489.9	1487.5	1486.3	1483.9	1482.7	1483.9	1479.0	1479.0	1500.7
15°	1553.8	1549.0	1550.2	1546.6	1544.2	1541.8	1540.6	1539.4	1536.9	1536.9	1550.2
17.5°	1610.5	1606.9	1605.7	1602.1	1598.5	1594.8	1592.4	1591.2	1587.6	1587.6	1599.7
20°	1669.6	1666.0	1663.6	1657.6	1651.5	1647.9	1643.1	1640.7	1635.9	1637.1	1650.3
22.5°	1737.2	1731.2	1726.3	1721.5	1710.7	1703.4	1697.4	1692.6	1690.2	1690.2	1708.2
25°	1827.7	1824.1	1816.8	1801.1	1787.9	1777.0	1767.4	1762.5	1757.7	1755.3	1783.0
27.5°	1938.7	1935.0	1925.4	1909.7	1891.6	1873.5	1862.7	1854.2	1848.2	1844.6	1884.4
30°	2085.8	2079.8	2071.4	2046.0	2030.4	2002.6	1990.5	1978.5	1965.2	1968.8	2015.9
32.5°	2374.2	2365.7	2339.2	2311.4	2263.2	2225.8	2187.2	2158.2	2130.5	2126.9	2177.5
35°	2636.0	2632.3	2627.5	2608.2	2590.1	2567.2	2549.1	2518.9	2493.6	2487.6	2629.9
37.5°	2777.1	2785.6	2778.3	2775.9	2775.9	2786.8	2820.5	2854.3	2878.4	2892.9	2972.5
40°	2993.1	2993.1	2984.6	2979.8	2970.1	2984.6	2999.1	3024.4	3035.3	3036.5	3117.3
42.5°	3237.9	3239.2	3230.7	3216.2	3211.4	3224.7	3244.0	3268.1	3282.6	3286.2	3380.3
45°	3510.6	3507.0	3499.7	3494.9	3498.5	3510.6	3533.5	3580.6	3602.3	3619.2	3721.7
47.5°	3806.2	3830.3	3809.8	3813.4	3813.4	3850.8	3902.7	3941.3	3976.3	4008.8	4117.4
50°	4193.4	4197.0	4200.6	4211.5	4218.7	4268.2	4333.4	4379.2	4429.9	4472.1	4649.4
52.5°	4711.0	4703.7	4721.8	4733.9	4774.9	4801.4	4910.0	4967.9	5037.9	5092.2	5351.5
55°	5329.8	5326.2	5352.8	5362.4	5416.7	5481.8	5602.5	5729.1	5848.6	5914.9	6269.6
57.5°	5773.8	5783.4	5829.3	5893.2	5999.4	6138.1	6317.9	6597.7	6824.5	6896.9	7287.8
60°	5871.5	5902.9	5971.6	6099.5	6281.7	6539.8	6893.3	7321.6	7736.6	7875.3	8242.1
62.5°	5597.6	5633.8	5735.2	5888.4	6126.0	6508.5	7018.8	7623.2	8239.6	8548.5	8733.1
63°	5510.8	5555.4	5631.4	5808.8	6050.0	6427.6	6970.5	7622.0	8261.4	8597.9	8742.7
65°	5103.0	5111.5	5224.9	5402.2	5673.7	6065.7	6613.4	7366.2	8075.6	8464.0	8363.9
67.5°	4391.3	4426.2	4521.5	4700.1	4964.3	5372.1	5966.8	6662.9	7286.6	7596.6	7149.1
70°	3548.0	3545.6	3663.8	3807.4	4040.2	4398.5	4919.7	5548.2	6042.8	6268.4	5519.2
72.5°	2534.6	2471.9	2558.8	2718.0	2908.6	3194.5	3607.1	4095.7	4538.4	4733.9	4035.4
75°	1154.5	1137.6	1214.8	1372.9	1565.9	1820.4	2159.4	2581.7	3006.3	3235.5	2570.8
77.5°	388.5	393.3	423.4	480.1	583.9	711.8	922.9	1193.1	1536.9	1763.7	1206.4
80°	260.6	267.8	277.5	285.9	298.0	317.3	363.1	433.1	539.3	652.7	381.2
82.5°	213.5	222.0	243.7	253.3	260.6	266.6	270.2	275.1	275.1	277.5	241.3
85°	153.2	167.7	196.6	214.7	222.0	226.8	232.8	240.1	229.2	219.6	187.0
87.5°	53.1	72.4	106.2	117.0	125.5	126.7	135.1	149.6	142.4	115.8	56.7
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1288.4	1288.4	1288.4	1288.4	1288.4	1288.4	1288.4	1288.4	1288.4
2.5°	1294.5	1293.2	1294.5	1295.7	1295.7	1295.7	1296.9	1298.1	1298.1
5°	1318.6	1319.8	1318.6	1319.8	1319.8	1321.0	1321.0	1323.4	1323.4
7.5°	1359.6	1362.0	1360.8	1363.2	1363.2	1365.6	1364.4	1368.0	1368.0
10°	1415.1	1417.5	1419.9	1421.1	1419.9	1422.3	1424.7	1426.0	1424.7
12.5°	1477.8	1479.0	1477.8	1480.2	1480.2	1482.7	1482.7	1486.3	1486.3
15°	1535.7	1534.5	1533.3	1536.9	1539.4	1540.6	1543.0	1546.6	1543.0
17.5°	1587.6	1588.8	1586.4	1590.0	1594.8	1598.5	1600.9	1605.7	1604.5
20°	1639.5	1637.1	1639.5	1645.5	1650.3	1655.2	1660.0	1667.2	1666.0
22.5°	1690.2	1692.6	1698.6	1703.4	1711.9	1719.1	1725.1	1734.8	1738.4
25°	1761.3	1761.3	1771.0	1777.0	1789.1	1798.7	1812.0	1822.9	1828.9
27.5°	1851.8	1851.8	1862.7	1875.9	1894.0	1910.9	1925.4	1939.9	1937.5
30°	1974.9	1980.9	1990.5	2007.4	2031.6	2052.1	2071.4	2085.8	2087.1
32.5°	2136.5	2143.8	2172.7	2216.1	2266.8	2305.4	2334.4	2369.3	2374.2
35°	2503.3	2521.4	2558.8	2593.7	2614.2	2637.2	2651.6	2652.9	2655.3
37.5°	2889.3	2857.9	2829.0	2802.4	2790.4	2788.0	2788.0	2792.8	2795.2
40°	3030.5	3014.8	3001.5	2984.6	2989.4	2988.2	2996.7	3003.9	3008.7
42.5°	3271.7	3259.7	3247.6	3225.9	3237.9	3234.3	3246.4	3257.3	3263.3
45°	3608.3	3570.9	3544.4	3509.4	3521.5	3514.2	3514.2	3527.5	3529.9
47.5°	3979.9	3936.4	3882.2	3838.7	3824.3	3811.0	3823.0	3823.0	3809.8
50°	4425.0	4373.2	4309.2	4239.3	4215.1	4201.9	4206.7	4212.7	4175.3
52.5°	5029.4	4971.5	4881.1	4774.9	4752.0	4741.1	4738.7	4730.3	4720.6
55°	5848.6	5740.0	5629.0	5489.1	5446.8	5434.8	5436.0	5426.3	5449.3
57.5°	6814.9	6655.7	6399.9	6229.8	6128.5	6089.9	6054.9	6040.4	6041.6
60°	7771.6	7447.0	7064.6	6767.8	6555.5	6420.4	6314.2	6255.1	6238.2
62.5°	8388.0	7877.7	7303.5	6822.1	6473.5	6250.3	6082.6	5976.5	5942.7
63°	8436.3	7895.8	7281.8	6765.4	6398.7	6164.7	5988.5	5878.7	5842.5
65°	8331.3	7713.7	6998.3	6383.0	5981.3	5721.9	5531.3	5427.5	5399.8
67.5°	7515.8	7001.9	6273.2	5637.5	5232.1	4969.1	4750.8	4651.8	4620.5
70°	6114.0	5761.7	5164.6	4621.7	4244.1	3990.7	3770.0	3687.9	3686.7
72.5°	4532.4	4075.2	3719.3	3321.2	2991.8	2790.4	2598.6	2506.9	2461.0
75°	2997.9	2508.1	2110.0	1774.6	1446.5	1265.5	1049.6	956.7	902.4
77.5°	1510.4	1119.5	802.2	556.1	431.9	354.7	324.5	308.8	307.6
80°	503.1	377.6	324.5	304.0	298.0	299.2	295.6	289.5	282.3
82.5°	278.7	293.2	295.6	287.1	287.1	282.3	277.5	254.5	242.5
85°	238.9	263.0	265.4	260.6	259.4	252.1	243.7	212.3	194.2
87.5°	149.6	172.5	168.9	150.8	166.5	155.6	147.2	95.3	70.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)