

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: P157369

Luminaire Tested: **VST-E07-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157369
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-E07-LED-E-U-5MQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (147) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20451.8 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

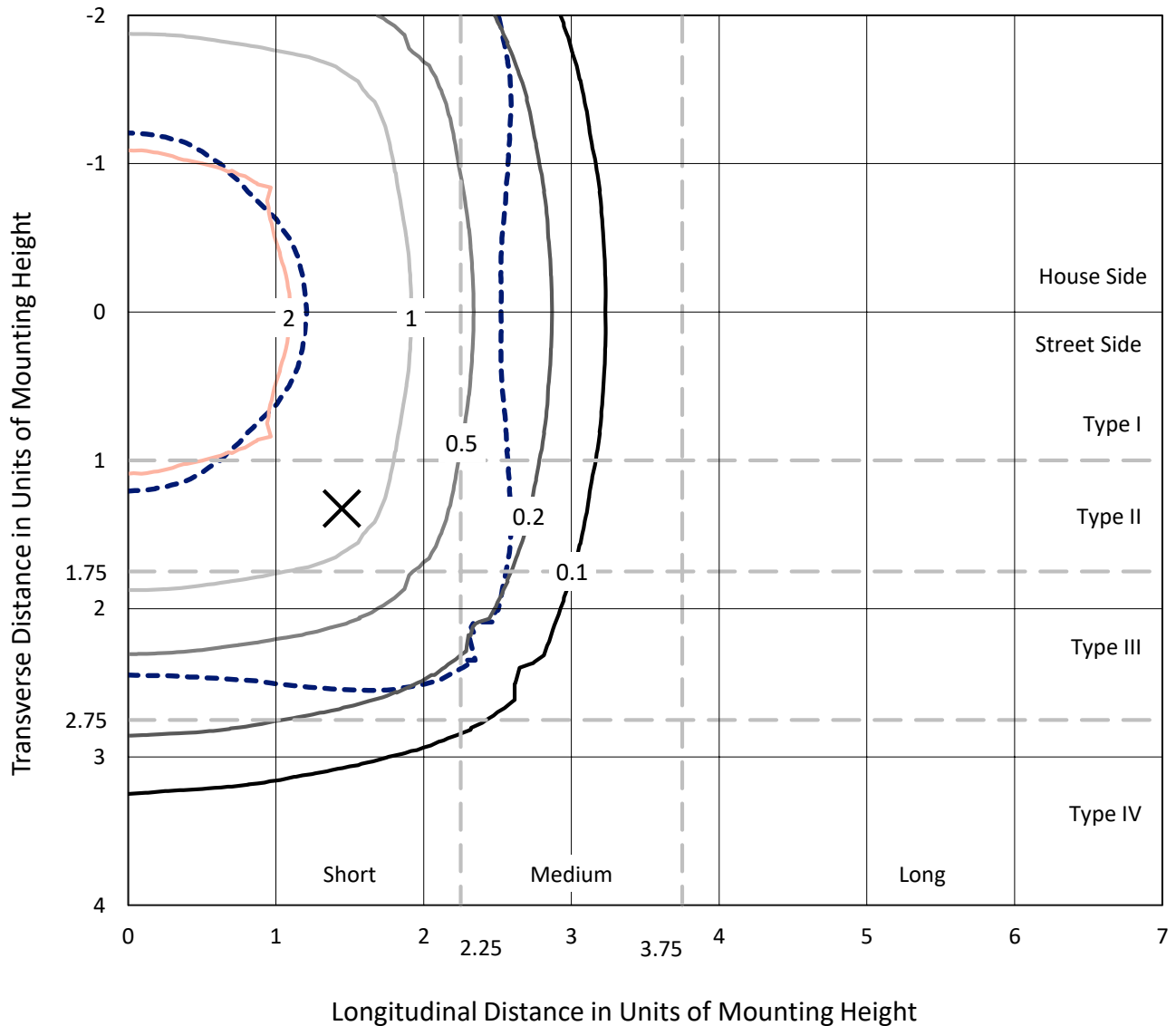
Input Watts (W): 172.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P157369
 CATALOG NUMBER: VST-E07-LED-E-U-5MQ-7030

Iso-Footcandle Lines of Horizontal Illumination

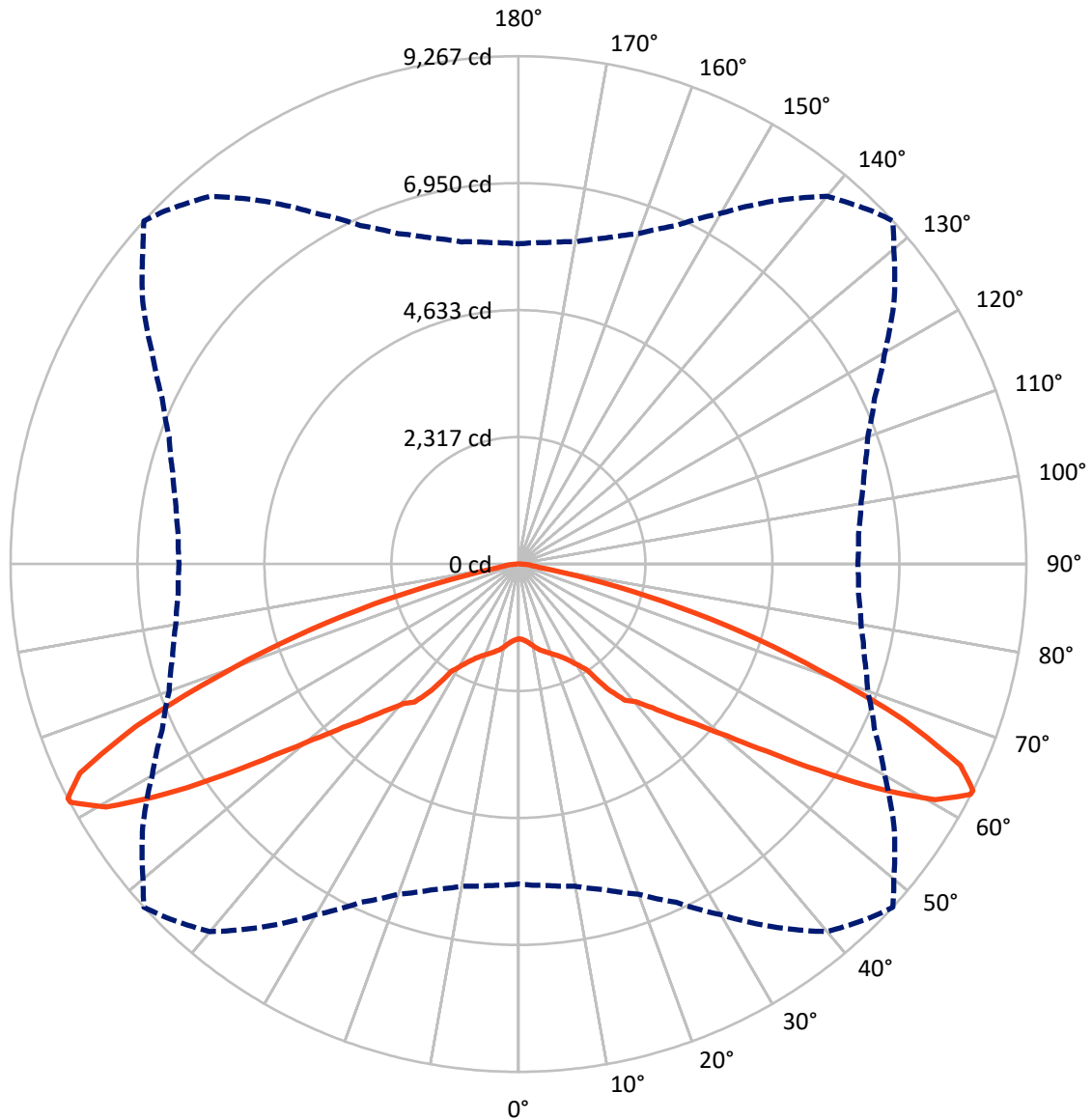
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P157369
CATALOG NUMBER: VST-E07-LED-E-U-5MQ-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P157369

CATALOG NUMBER: VST-E07-LED-E-U-5MQ-7030

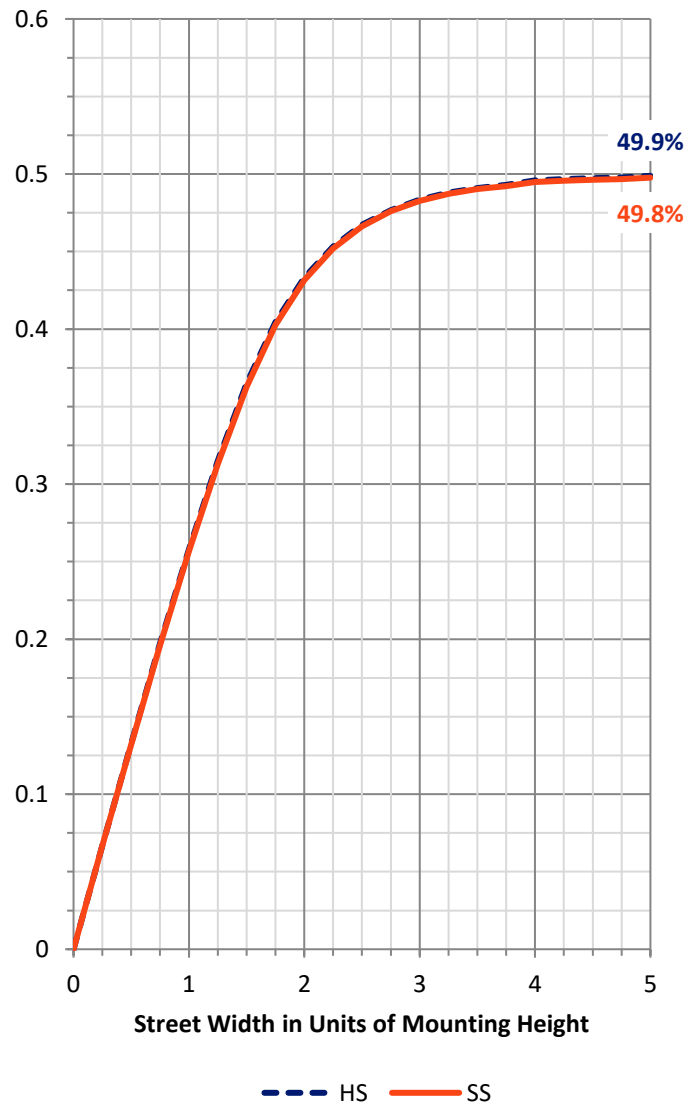
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10225.9	0.0	10225.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10225.9	0.0	10225.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	20451.8	0.0	20451.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	0.7
10°-20°	466.0	2.3
20°-30°	891.5	4.4
30°-40°	1705.3	8.3
40°-50°	2950.7	14.4
50°-60°	5299.3	25.9
60°-70°	6444.1	31.5
70°-80°	2327.3	11.4
80°-90°	230.5	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°	20451.8	100.0
0°-180°	20451.8	100.0

Coefficient of Utilization



REPORT NUMBER: P157369

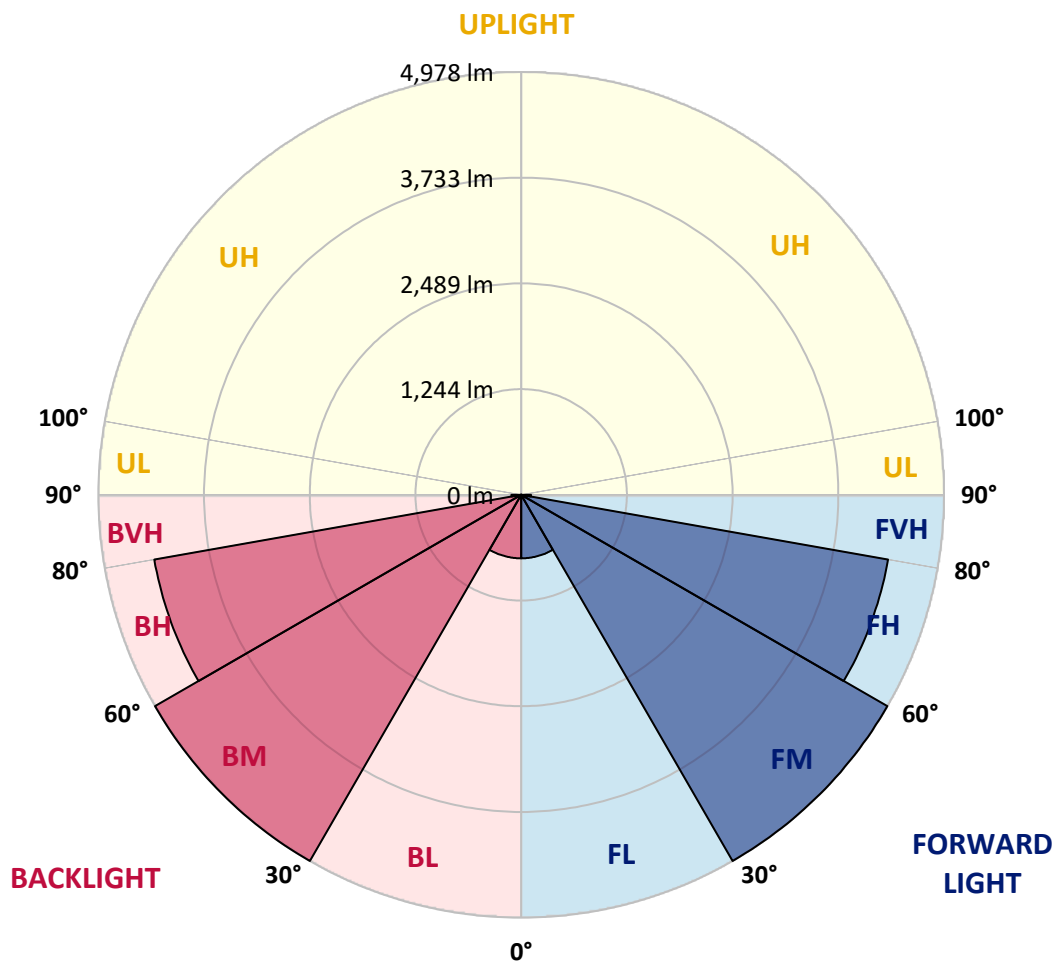
CATALOG NUMBER: VST-E07-LED-E-U-5MQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	747.3	3.7			
FM	(30°-60°)	4977.7	24.3			
FH	(60°-80°)	4385.7	21.4			G2/5000
FVH	(80°-90°)	115.2	0.6			G2/225
BL	(0°-30°)	747.3	3.7	B2/1000		
BM	(30°-60°)	4977.7	24.3	B3/5000		
BH	(60°-80°)	4385.7	21.4	B4/5000		G2/5000
BVH	(80°-90°)	115.2	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





REPORT NUMBER: P157369
 CATALOG NUMBER: VST-E07-LED-E-U-5MQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6
2.5°	1374.6	1372.0	1373.3	1374.6	1373.3	1372.0	1372.0	1372.0	1374.6	1372.0	1378.4
5°	1401.4	1398.9	1400.2	1400.2	1400.2	1397.6	1397.6	1397.6	1396.3	1397.6	1411.7
7.5°	1452.6	1448.8	1447.5	1450.0	1447.5	1446.2	1444.9	1444.9	1442.4	1442.4	1460.3
10°	1514.0	1508.9	1511.4	1512.7	1508.9	1506.3	1506.3	1506.3	1502.5	1501.2	1524.2
12.5°	1581.7	1579.2	1579.2	1576.6	1575.3	1572.8	1571.5	1572.8	1567.7	1567.7	1590.7
15°	1647.0	1641.8	1643.1	1639.3	1636.7	1634.2	1632.9	1631.6	1629.1	1629.1	1643.1
17.5°	1707.1	1703.2	1701.9	1698.1	1694.3	1690.4	1687.9	1686.6	1682.8	1682.8	1695.5
20°	1769.7	1765.9	1763.3	1756.9	1750.5	1746.7	1741.6	1739.0	1733.9	1735.2	1749.2
22.5°	1841.3	1834.9	1829.8	1824.7	1813.2	1805.5	1799.1	1794.0	1791.4	1791.4	1810.6
25°	1937.2	1933.4	1925.7	1909.1	1895.0	1883.5	1873.3	1868.2	1863.1	1860.5	1889.9
27.5°	2054.9	2051.0	2040.8	2024.2	2005.0	1985.8	1974.3	1965.3	1959.0	1955.1	1997.3
30°	2210.9	2204.5	2195.5	2168.7	2152.0	2122.6	2109.8	2097.1	2083.0	2086.8	2136.7
32.5°	2516.5	2507.5	2479.4	2450.0	2398.8	2359.2	2318.3	2287.6	2258.2	2254.3	2308.0
35°	2793.9	2790.1	2785.0	2764.5	2745.3	2721.1	2701.9	2669.9	2643.1	2636.7	2787.5
37.5°	2943.5	2952.5	2944.8	2942.3	2942.3	2953.8	2989.6	3025.4	3051.0	3066.3	3150.7
40°	3172.4	3172.4	3163.5	3158.4	3148.1	3163.5	3178.8	3205.7	3217.2	3218.5	3304.1
42.5°	3432.0	3433.3	3424.3	3409.0	3403.9	3417.9	3438.4	3464.0	3479.3	3483.2	3582.9
45°	3721.0	3717.2	3709.5	3704.4	3708.2	3721.0	3745.3	3795.2	3818.2	3836.1	3944.8
47.5°	4034.3	4059.8	4038.1	4041.9	4041.9	4081.6	4136.6	4177.5	4214.6	4249.1	4364.2
50°	4444.7	4448.6	4452.4	4463.9	4471.6	4524.0	4593.1	4641.6	4695.4	4740.1	4928.1
52.5°	4993.3	4985.6	5004.8	5017.6	5061.1	5089.2	5204.3	5265.6	5339.8	5397.4	5672.3
55°	5649.3	5645.4	5673.5	5683.8	5741.3	5810.4	5938.2	6072.5	6199.1	6269.4	6645.4
57.5°	6119.8	6130.0	6178.6	6246.4	6358.9	6506.0	6696.5	6993.2	7233.6	7310.3	7724.6
60°	6223.4	6256.6	6329.5	6465.1	6658.1	6931.8	7306.4	7760.4	8200.2	8347.3	8736.0
62.5°	5933.1	5971.5	6078.9	6241.3	6493.2	6898.5	7439.4	8080.0	8733.5	9060.8	9256.4
63°	5841.1	5888.4	5968.9	6156.9	6412.6	6812.9	7388.3	8078.8	8756.5	9113.2	9266.7
65°	5408.9	5417.8	5538.0	5726.0	6013.7	6429.3	7009.8	7807.7	8559.6	8971.3	8865.2
67.5°	4654.4	4691.5	4792.5	4981.8	5261.8	5694.0	6324.4	7062.2	7723.3	8051.9	7577.5
70°	3760.6	3758.1	3883.4	4035.5	4282.3	4662.1	5214.5	5880.7	6405.0	6644.1	5850.0
72.5°	2686.5	2620.0	2712.1	2880.9	3082.9	3386.0	3823.3	4341.2	4810.4	5017.6	4277.2
75°	1223.7	1205.8	1287.6	1455.1	1659.7	1929.5	2288.9	2736.4	3186.5	3429.4	2724.9
77.5°	411.7	416.9	448.8	508.9	618.9	754.4	978.2	1264.6	1629.1	1869.4	1278.7
80°	276.2	283.9	294.1	303.0	315.8	336.3	384.9	459.0	571.6	691.8	404.1
82.5°	226.3	235.3	258.3	268.5	276.2	282.6	286.4	291.5	291.5	294.1	255.7
85°	162.4	177.7	208.4	227.6	235.3	240.4	246.8	254.5	243.0	232.7	198.2
87.5°	56.3	76.7	112.5	124.0	133.0	134.3	143.2	158.6	150.9	122.8	60.1
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: P157369

CATALOG NUMBER: VST-E07-LED-E-U-5MQ-7030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6	1365.6
2.5°	1372.0	1370.8	1372.0	1373.3	1373.3	1373.3	1374.6	1375.9	1375.9
5°	1397.6	1398.9	1397.6	1398.9	1398.9	1400.2	1400.2	1402.7	1402.7
7.5°	1441.1	1443.6	1442.4	1444.9	1444.9	1447.5	1446.2	1450.0	1450.0
10°	1499.9	1502.5	1505.0	1506.3	1505.0	1507.6	1510.1	1511.4	1510.1
12.5°	1566.4	1567.7	1566.4	1569.0	1569.0	1571.5	1571.5	1575.3	1575.3
15°	1627.8	1626.5	1625.2	1629.1	1631.6	1632.9	1635.4	1639.3	1635.4
17.5°	1682.8	1684.0	1681.5	1685.3	1690.4	1694.3	1696.8	1701.9	1700.7
20°	1737.7	1735.2	1737.7	1744.1	1749.2	1754.4	1759.5	1767.2	1765.9
22.5°	1791.4	1794.0	1800.4	1805.5	1814.5	1822.1	1828.5	1838.8	1842.6
25°	1866.9	1866.9	1877.1	1883.5	1896.3	1906.5	1920.6	1932.1	1938.5
27.5°	1962.8	1962.8	1974.3	1988.4	2007.5	2025.4	2040.8	2056.1	2053.6
30°	2093.2	2099.6	2109.8	2127.7	2153.3	2175.1	2195.5	2210.9	2212.1
32.5°	2264.6	2272.2	2302.9	2349.0	2402.7	2443.6	2474.3	2511.3	2516.5
35°	2653.3	2672.5	2712.1	2749.2	2770.9	2795.2	2810.6	2811.8	2814.4
37.5°	3062.5	3029.2	2998.5	2970.4	2957.6	2955.1	2955.1	2960.2	2962.7
40°	3212.1	3195.4	3181.4	3163.5	3168.6	3167.3	3176.3	3183.9	3189.1
42.5°	3467.8	3455.0	3442.2	3419.2	3432.0	3428.2	3441.0	3452.5	3458.9
45°	3824.6	3784.9	3756.8	3719.7	3732.5	3724.8	3724.8	3738.9	3741.4
47.5°	4218.4	4172.4	4114.8	4068.8	4053.4	4039.4	4052.2	4052.2	4038.1
50°	4690.2	4635.3	4567.5	4493.3	4467.7	4453.7	4458.8	4465.2	4425.5
52.5°	5330.9	5269.5	5173.6	5061.1	5036.8	5025.3	5022.7	5013.7	5003.5
55°	6199.1	6084.0	5966.4	5818.0	5773.3	5760.5	5761.8	5751.5	5775.8
57.5°	7223.3	7054.5	6783.5	6603.2	6495.7	6454.8	6417.7	6402.4	6403.7
60°	8237.3	7893.4	7488.0	7173.5	6948.4	6805.2	6692.7	6630.0	6612.1
62.5°	8890.7	8349.8	7741.2	7231.0	6861.5	6624.9	6447.2	6334.6	6298.8
63°	8941.9	8369.0	7718.2	7170.9	6782.2	6534.1	6347.4	6231.1	6192.7
65°	8830.6	8175.9	7417.7	6765.6	6339.7	6064.8	5862.8	5752.8	5723.4
67.5°	7966.2	7421.5	6649.2	5975.3	5545.7	5266.9	5035.5	4930.6	4897.4
70°	6480.4	6107.0	5474.1	4898.7	4498.4	4229.9	3995.9	3909.0	3907.7
72.5°	4804.0	4319.4	3942.2	3520.2	3171.2	2957.6	2754.3	2657.1	2608.5
75°	3177.5	2658.4	2236.4	1881.0	1533.1	1341.3	1112.5	1014.0	956.5
77.5°	1600.9	1186.6	850.3	589.5	457.8	375.9	344.0	327.3	326.1
80°	533.2	400.2	344.0	322.2	315.8	317.1	313.3	306.9	299.2
82.5°	295.4	310.7	313.3	304.3	304.3	299.2	294.1	269.8	257.0
85°	253.2	278.8	281.3	276.2	274.9	267.2	258.3	225.0	205.9
87.5°	158.6	182.9	179.0	159.8	176.5	165.0	156.0	101.0	74.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)