

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: P157383

Luminaire Tested: **VST-F08-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157383
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17830.1 lumens
Efficiency: N/A
Efficacy: 87.2 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

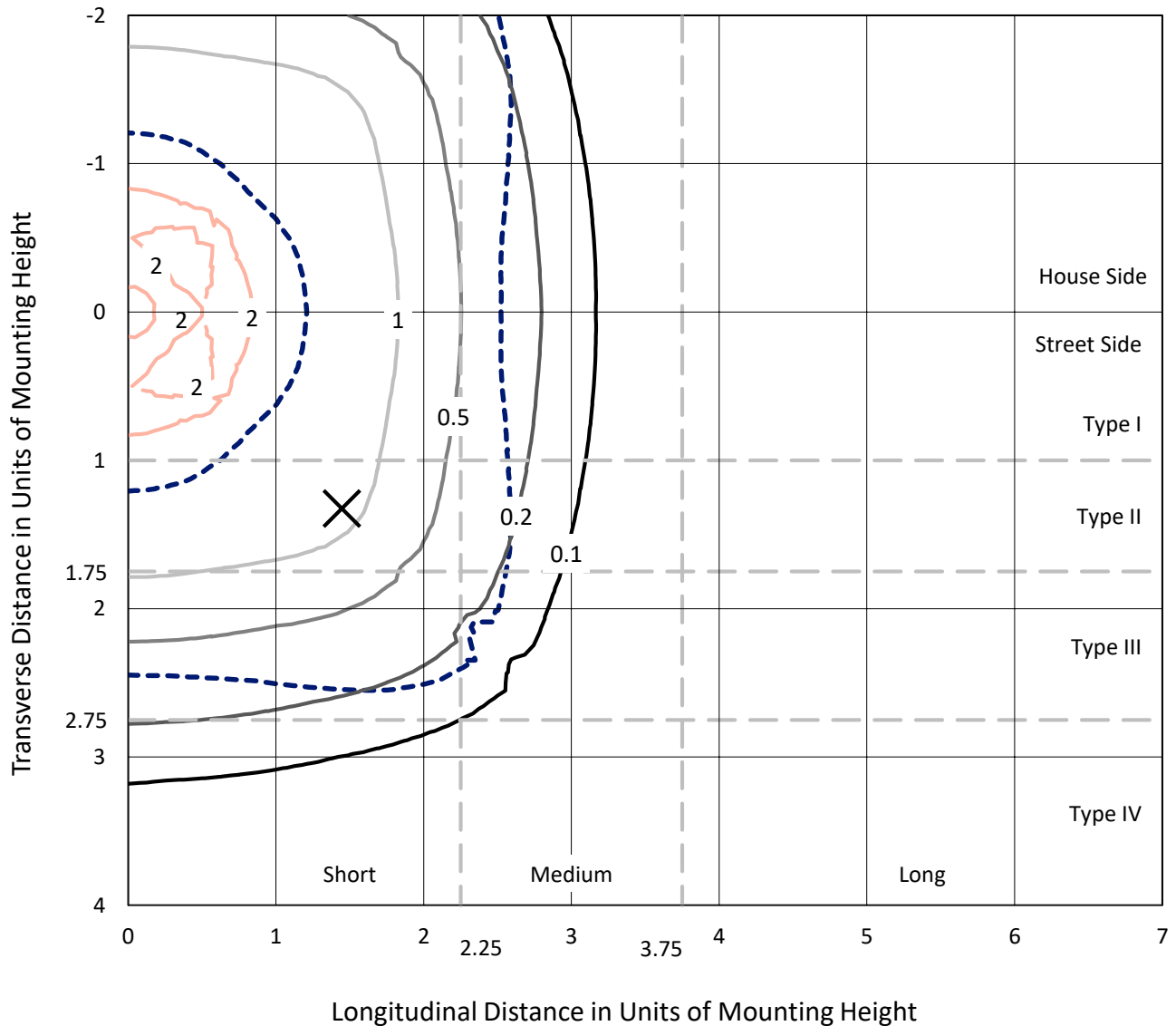
Input Watts (W): 204.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

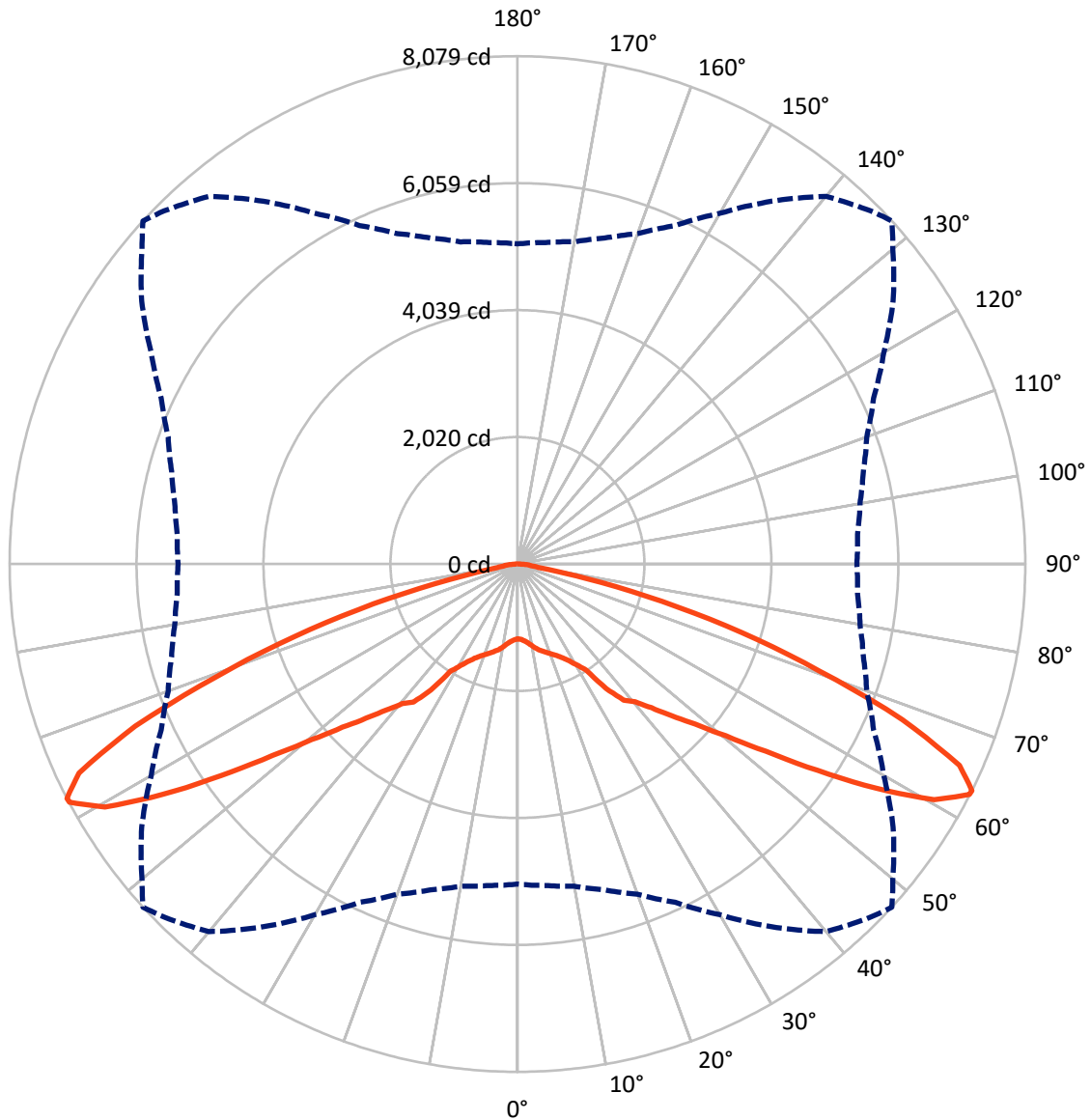
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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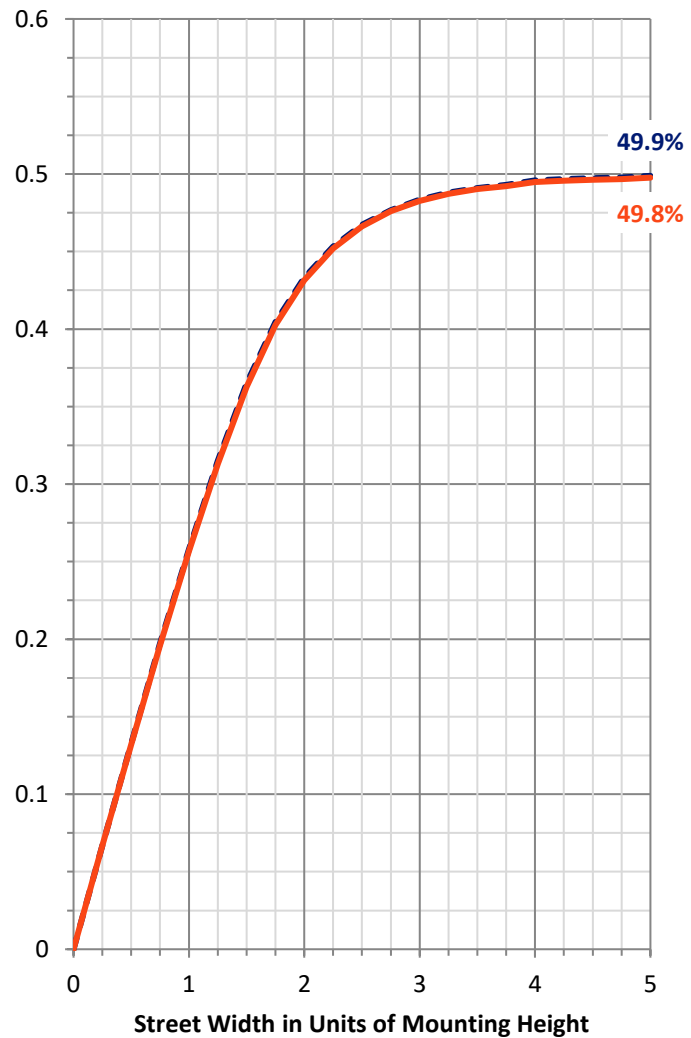
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8915.0	0.0	8915.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8915.0	0.0	8915.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17830.1	0.0	17830.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	0.7
10°-20°	406.3	2.3
20°-30°	777.2	4.4
30°-40°	1486.7	8.3
40°-50°	2572.5	14.4
50°-60°	4620.0	25.9
60°-70°	5618.0	31.5
70°-80°	2028.9	11.4
80°-90°	200.9	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°	17830.1	100.0
0°-180°	17830.1	100.0



--- HS — SS

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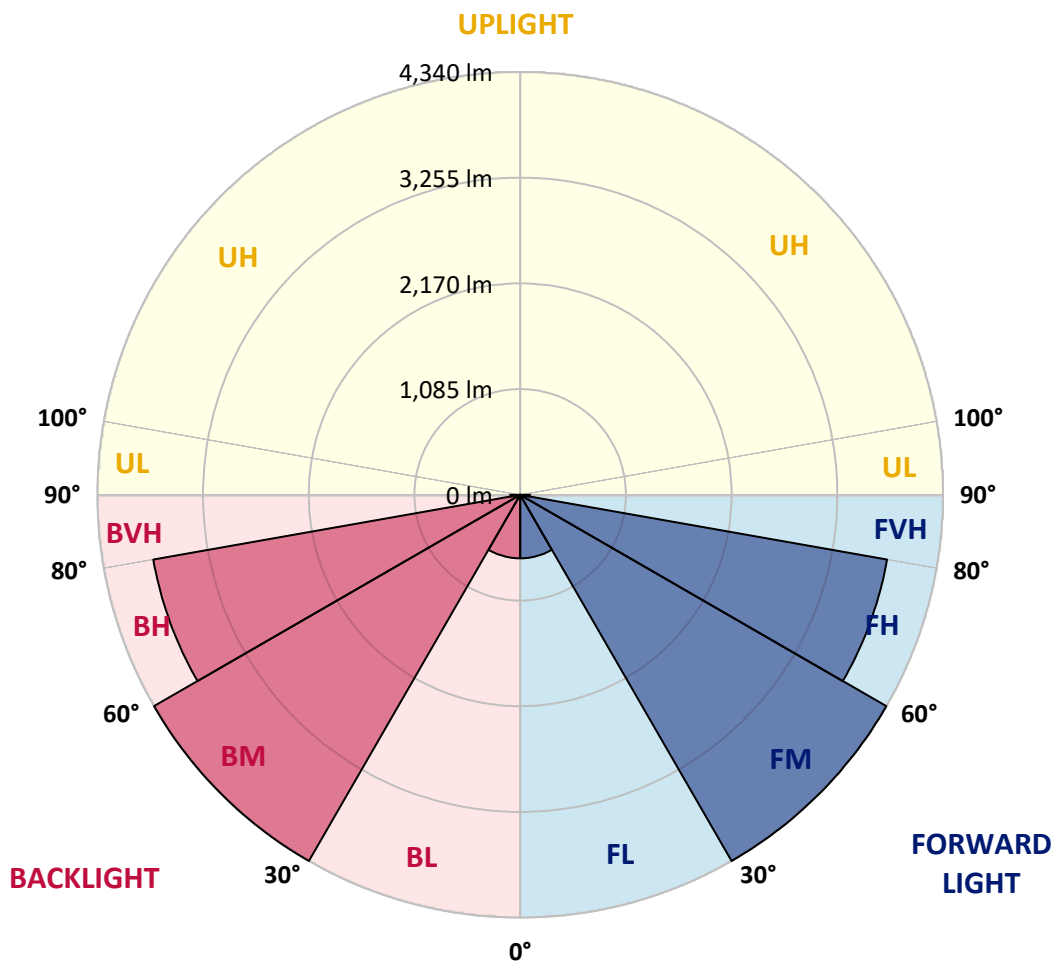
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	651.5	3.7			
FM	(30°-60°)	4339.6	24.3			
FH	(60°-80°)	3823.5	21.4			G2/5000
FVH	(80°-90°)	100.5	0.6			G2/225
BL	(0°-30°)	651.5	3.7	B2/1000		
BM	(30°-60°)	4339.6	24.3	B3/5000		
BH	(60°-80°)	3823.5	21.4	B4/5000		G2/5000
BVH	(80°-90°)	100.5	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°	1190.6	1190.6	1190.6	1190.6	1190.6	1190.6	1190.6	1190.6	1190.6	1190.6	1190.6
2.5°	1198.4	1196.2	1197.3	1198.4	1197.3	1196.2	1196.2	1196.2	1198.4	1196.2	1201.7
5°	1221.8	1219.6	1220.7	1220.7	1220.7	1218.5	1218.5	1218.5	1217.3	1218.5	1230.7
7.5°	1266.4	1263.0	1261.9	1264.2	1261.9	1260.8	1259.7	1259.7	1257.5	1257.5	1273.1
10°	1319.9	1315.4	1317.7	1318.8	1315.4	1313.2	1313.2	1313.2	1309.9	1308.7	1328.8
12.5°	1379.0	1376.7	1376.7	1374.5	1373.4	1371.2	1370.1	1371.2	1366.7	1366.7	1386.8
15°	1435.8	1431.4	1432.5	1429.1	1426.9	1424.7	1423.6	1422.5	1420.2	1420.2	1432.5
17.5°	1488.2	1484.9	1483.8	1480.4	1477.1	1473.7	1471.5	1470.4	1467.0	1467.0	1478.2
20°	1542.9	1539.5	1537.3	1531.7	1526.1	1522.8	1518.3	1516.1	1511.6	1512.8	1525.0
22.5°	1605.3	1599.7	1595.2	1590.8	1580.8	1574.1	1568.5	1564.0	1561.8	1561.8	1578.5
25°	1688.9	1685.5	1678.9	1664.4	1652.1	1642.1	1633.1	1628.7	1624.2	1622.0	1647.6
27.5°	1791.4	1788.1	1779.2	1764.7	1748.0	1731.2	1721.2	1713.4	1707.8	1704.5	1741.3
30°	1927.4	1921.9	1914.1	1890.7	1876.2	1850.5	1839.4	1828.2	1816.0	1819.3	1862.8
32.5°	2193.9	2186.1	2161.6	2135.9	2091.3	2056.8	2021.1	1994.3	1968.7	1965.4	2012.2
35°	2435.8	2432.4	2428.0	2410.1	2393.4	2372.2	2355.5	2327.7	2304.2	2298.7	2430.2
37.5°	2566.2	2574.0	2567.3	2565.1	2565.1	2575.1	2606.3	2637.6	2659.9	2673.2	2746.8
40°	2765.8	2765.8	2758.0	2753.5	2744.6	2758.0	2771.3	2794.7	2804.8	2805.9	2880.6
42.5°	2992.1	2993.2	2985.4	2972.0	2967.5	2979.8	2997.6	3019.9	3033.3	3036.7	3123.6
45°	3244.0	3240.7	3234.0	3229.5	3232.9	3244.0	3265.2	3308.7	3328.7	3344.3	3439.1
47.5°	3517.1	3539.4	3520.5	3523.8	3523.8	3558.4	3606.3	3642.0	3674.3	3704.4	3804.7
50°	3875.0	3878.3	3881.7	3891.7	3898.4	3944.1	4004.3	4046.6	4093.5	4132.5	4296.4
52.5°	4353.2	4346.5	4363.2	4374.4	4412.3	4436.8	4537.1	4590.7	4655.3	4705.5	4945.2
55°	4925.1	4921.7	4946.3	4955.2	5005.3	5065.5	5177.0	5294.1	5404.4	5465.8	5793.5
57.5°	5335.3	5344.2	5386.6	5445.7	5543.8	5672.0	5838.1	6096.7	6306.3	6373.2	6734.4
60°	5425.6	5454.6	5518.1	5636.3	5804.6	6043.2	6369.8	6765.6	7149.1	7277.3	7616.2
62.5°	5172.6	5206.0	5299.6	5441.2	5660.8	6014.2	6485.8	7044.3	7613.9	7899.3	8069.9
63°	5092.3	5133.5	5203.8	5367.7	5590.6	5939.5	6441.2	7043.2	7634.0	7945.0	8078.8
65°	4715.5	4723.3	4828.1	4992.0	5242.8	5605.1	6111.2	6806.8	7462.3	7821.3	7728.7
67.5°	4057.8	4090.1	4178.2	4343.2	4587.3	4964.1	5513.7	6156.9	6733.3	7019.8	6606.2
70°	3278.6	3276.3	3385.6	3518.2	3733.4	4064.5	4546.1	5126.9	5583.9	5792.4	5100.1
72.5°	2342.1	2284.2	2364.4	2511.6	2687.7	2951.9	3333.2	3784.7	4193.8	4374.4	3728.9
75°	1066.8	1051.2	1122.6	1268.6	1447.0	1682.2	1995.5	2385.6	2778.0	2989.8	2375.6
77.5°	359.0	363.4	391.3	443.7	539.6	657.7	852.8	1102.5	1420.2	1629.8	1114.8
80°	240.8	247.5	256.4	264.2	275.3	293.2	335.5	400.2	498.3	603.1	352.3
82.5°	197.3	205.1	225.2	234.1	240.8	246.4	249.7	254.2	254.2	256.4	223.0
85°	141.6	155.0	181.7	198.4	205.1	209.6	215.2	221.8	211.8	202.9	172.8
87.5°	49.1	66.9	98.1	108.1	115.9	117.1	124.9	138.2	131.5	107.0	52.4
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°	1190.6	1190.6	1190.6	1190.6	1190.6	1190.6	1190.6	1190.6	1190.6
2.5°	1196.2	1195.0	1196.2	1197.3	1197.3	1197.3	1198.4	1199.5	1199.5
5°	1218.5	1219.6	1218.5	1219.6	1219.6	1220.7	1220.7	1222.9	1222.9
7.5°	1256.4	1258.6	1257.5	1259.7	1259.7	1261.9	1260.8	1264.2	1264.2
10°	1307.6	1309.9	1312.1	1313.2	1312.1	1314.3	1316.6	1317.7	1316.6
12.5°	1365.6	1366.7	1365.6	1367.8	1367.8	1370.1	1370.1	1373.4	1373.4
15°	1419.1	1418.0	1416.9	1420.2	1422.5	1423.6	1425.8	1429.1	1425.8
17.5°	1467.0	1468.2	1465.9	1469.3	1473.7	1477.1	1479.3	1483.8	1482.7
20°	1515.0	1512.8	1515.0	1520.6	1525.0	1529.5	1533.9	1540.6	1539.5
22.5°	1561.8	1564.0	1569.6	1574.1	1581.9	1588.6	1594.1	1603.0	1606.4
25°	1627.6	1627.6	1636.5	1642.1	1653.2	1662.1	1674.4	1684.4	1690.0
27.5°	1711.2	1711.2	1721.2	1733.5	1750.2	1765.8	1779.2	1792.6	1790.3
30°	1824.9	1830.5	1839.4	1855.0	1877.3	1896.2	1914.1	1927.4	1928.6
32.5°	1974.3	1981.0	2007.7	2047.8	2094.7	2130.3	2157.1	2189.4	2193.9
35°	2313.2	2329.9	2364.4	2396.8	2415.7	2436.9	2450.3	2451.4	2453.6
37.5°	2669.9	2640.9	2614.2	2589.6	2578.5	2576.2	2576.2	2580.7	2582.9
40°	2800.3	2785.8	2773.6	2758.0	2762.4	2761.3	2769.1	2775.8	2780.3
42.5°	3023.3	3012.1	3001.0	2980.9	2992.1	2988.7	2999.9	3009.9	3015.5
45°	3334.3	3299.7	3275.2	3242.9	3254.0	3247.3	3247.3	3259.6	3261.8
47.5°	3677.6	3637.5	3587.4	3547.2	3533.8	3521.6	3532.7	3532.7	3520.5
50°	4089.0	4041.1	3982.0	3917.3	3895.0	3882.8	3887.2	3892.8	3858.2
52.5°	4647.5	4594.0	4510.4	4412.3	4391.1	4381.1	4378.8	4371.0	4362.1
55°	5404.4	5304.1	5201.5	5072.2	5033.2	5022.1	5023.2	5014.3	5035.4
57.5°	6297.4	6150.2	5913.9	5756.7	5663.1	5627.4	5595.1	5581.7	5582.8
60°	7181.4	6881.5	6528.1	6253.9	6057.7	5932.8	5834.7	5780.1	5764.5
62.5°	7751.0	7279.5	6748.9	6304.1	5981.9	5775.7	5620.7	5522.6	5491.4
63°	7795.6	7296.2	6728.8	6251.7	5912.8	5696.5	5533.8	5432.3	5398.9
65°	7698.6	7127.9	6466.8	5898.3	5527.1	5287.4	5111.3	5015.4	4989.7
67.5°	6945.1	6470.2	5796.8	5209.4	4834.8	4591.8	4390.0	4298.6	4269.6
70°	5649.7	5324.2	4772.4	4270.7	3921.8	3687.7	3483.7	3407.9	3406.8
72.5°	4188.2	3765.7	3436.9	3069.0	2764.6	2578.5	2401.2	2316.5	2274.1
75°	2770.2	2317.6	1949.7	1639.8	1336.6	1169.4	969.9	884.0	833.9
77.5°	1395.7	1034.5	741.3	513.9	399.1	327.7	299.9	285.4	284.3
80°	464.9	348.9	299.9	280.9	275.3	276.5	273.1	267.5	260.9
82.5°	257.5	270.9	273.1	265.3	265.3	260.9	256.4	235.2	224.1
85°	220.7	243.0	245.3	240.8	239.7	233.0	225.2	196.2	179.5
87.5°	138.2	159.4	156.1	139.3	153.8	143.8	136.0	88.1	64.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)