

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: P157360

Luminaire Tested: **VST-E06-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157360
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-E06-LED-E-U-5MQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19193.2 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 150.5
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

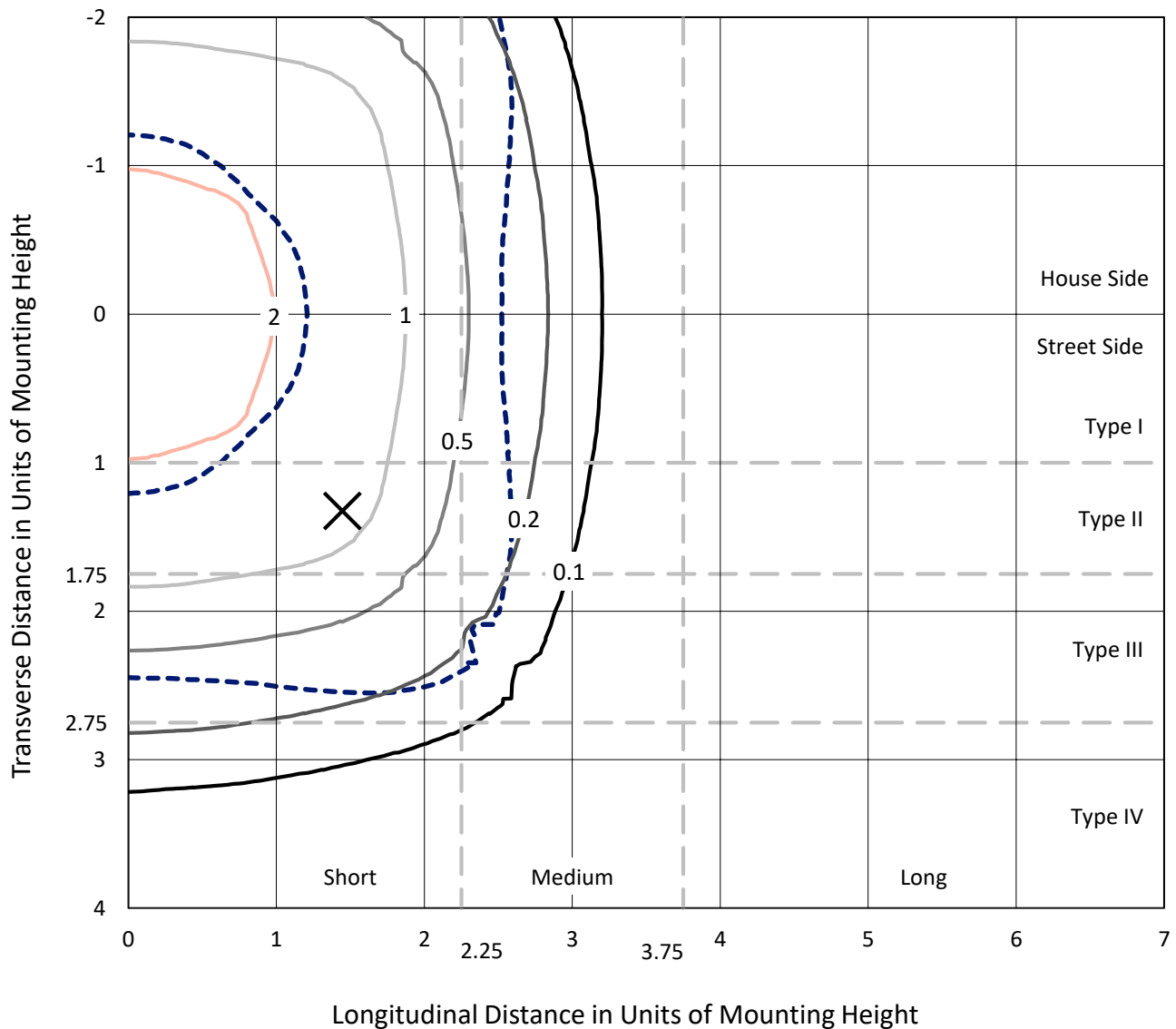


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

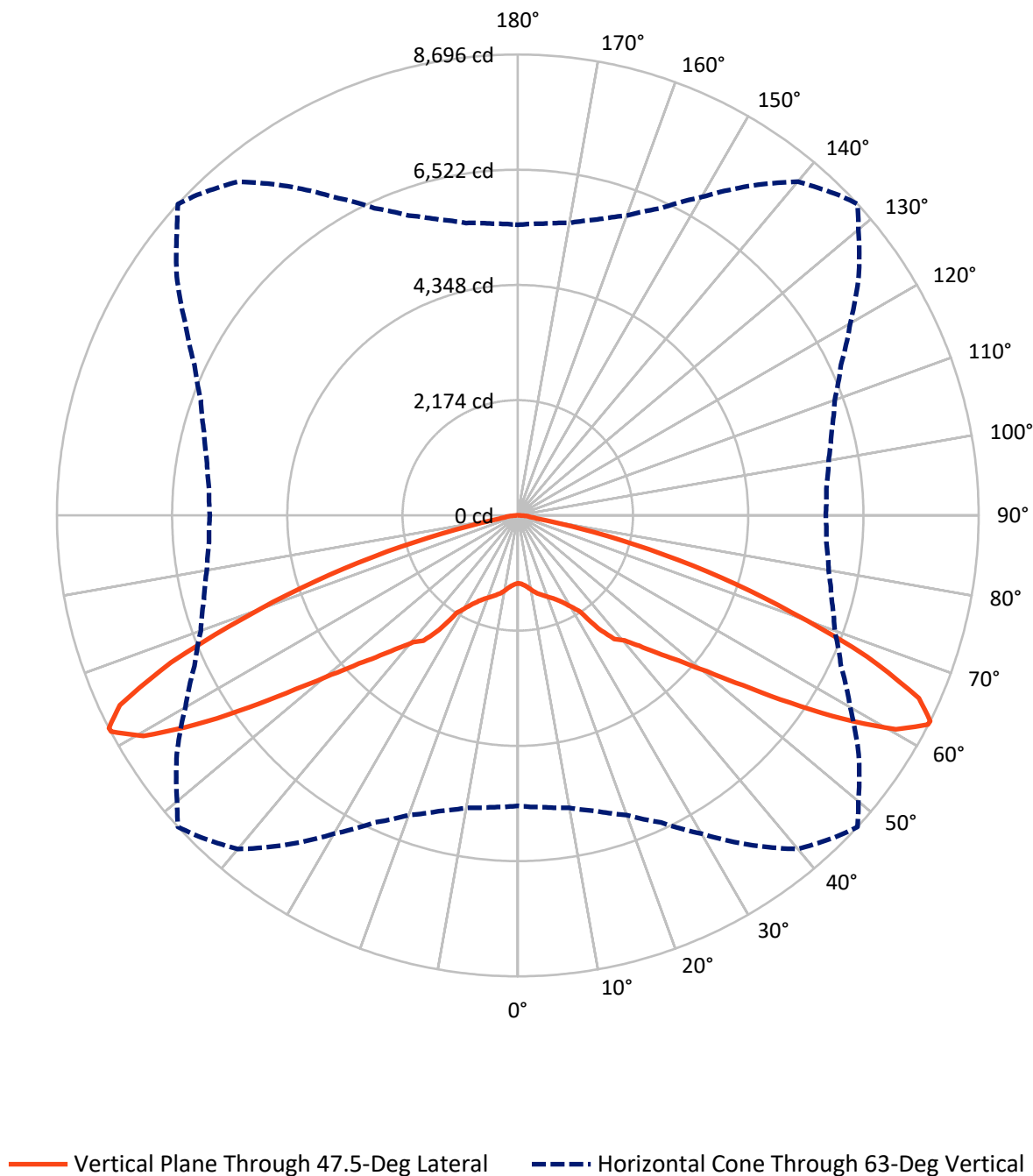


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9596.6	0.0	9596.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9596.6	0.0	9596.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	19193.2	0.0	19193.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	0.7
10°-20°	437.4	2.3
20°-30°	836.6	4.4
30°-40°	1600.3	8.3
40°-50°	2769.1	14.4
50°-60°	4973.2	25.9
60°-70°	6047.5	31.5
70°-80°	2184.0	11.4
80°-90°	216.3	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°	19193.2	100.0
0°-180°	19193.2	100.0

Coefficient of Utilization



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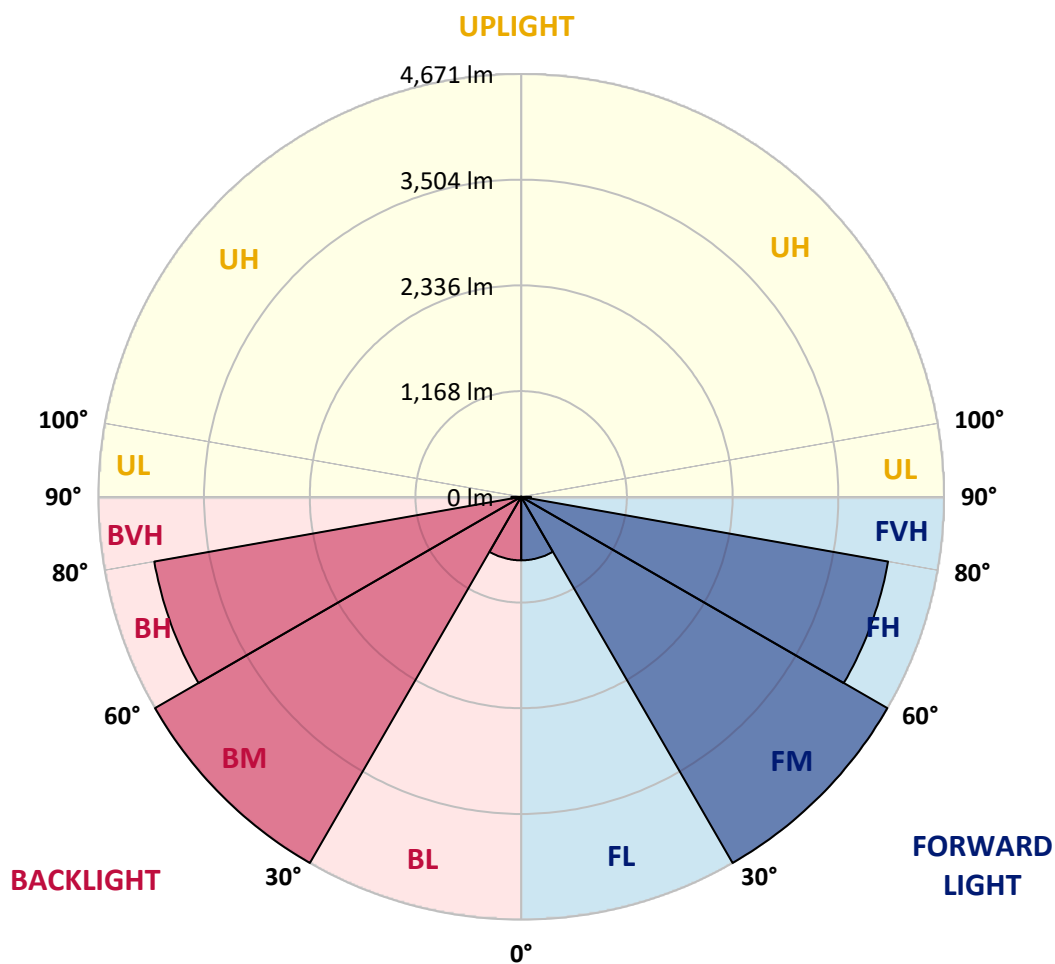
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	701.3	3.7			
FM	(30°-60°)	4671.3	24.3			
FH	(60°-80°)	4115.8	21.4			G2/5000
FVH	(80°-90°)	108.2	0.6			G2/225
BL	(0°-30°)	701.3	3.7	B2/1000		
BM	(30°-60°)	4671.3	24.3	B3/5000		
BH	(60°-80°)	4115.8	21.4	B4/5000		G2/5000
BVH	(80°-90°)	108.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1290.0	1287.6	1288.8	1290.0	1288.8	1287.6	1287.6	1287.6	1290.0	1287.6	1293.6
5°	1315.2	1312.8	1314.0	1314.0	1314.0	1311.6	1311.6	1311.6	1310.4	1311.6	1324.8
7.5°	1363.2	1359.6	1358.4	1360.8	1358.4	1357.2	1356.0	1356.0	1353.6	1353.6	1370.4
10°	1420.8	1416.0	1418.4	1419.6	1416.0	1413.6	1413.6	1413.6	1410.0	1408.8	1430.4
12.5°	1484.4	1482.0	1482.0	1479.6	1478.4	1476.0	1474.8	1476.0	1471.2	1471.2	1492.8
15°	1545.6	1540.8	1542.0	1538.4	1536.0	1533.6	1532.4	1531.2	1528.8	1528.8	1542.0
17.5°	1602.0	1598.4	1597.2	1593.6	1590.0	1586.4	1584.0	1582.8	1579.2	1579.2	1591.2
20°	1660.8	1657.2	1654.8	1648.8	1642.8	1639.2	1634.4	1632.0	1627.2	1628.4	1641.6
22.5°	1728.0	1722.0	1717.2	1712.4	1701.6	1694.4	1688.4	1683.6	1681.2	1681.2	1699.2
25°	1818.0	1814.4	1807.2	1791.6	1778.4	1767.6	1758.0	1753.2	1748.4	1746.0	1773.6
27.5°	1928.4	1924.8	1915.2	1899.6	1881.6	1863.6	1852.8	1844.4	1838.4	1834.8	1874.4
30°	2074.8	2068.8	2060.4	2035.2	2019.6	1992.0	1980.0	1968.0	1954.8	1958.4	2005.2
32.5°	2361.6	2353.2	2326.8	2299.2	2251.2	2214.0	2175.6	2146.8	2119.2	2115.6	2166.0
35°	2622.0	2618.4	2613.6	2594.4	2576.4	2553.6	2535.6	2505.6	2480.4	2474.4	2616.0
37.5°	2762.4	2770.8	2763.6	2761.2	2761.2	2772.0	2805.6	2839.2	2863.2	2877.6	2956.8
40°	2977.2	2977.2	2968.8	2964.0	2954.4	2968.8	2983.2	3008.4	3019.2	3020.4	3100.8
42.5°	3220.8	3222.0	3213.6	3199.2	3194.4	3207.6	3226.8	3250.8	3265.2	3268.8	3362.4
45°	3492.0	3488.4	3481.2	3476.4	3480.0	3492.0	3514.8	3561.6	3583.2	3600.0	3702.0
47.5°	3786.0	3810.0	3789.6	3793.2	3793.2	3830.4	3882.0	3920.4	3955.2	3987.6	4095.6
50°	4171.2	4174.8	4178.4	4189.2	4196.4	4245.6	4310.4	4356.0	4406.4	4448.4	4624.8
52.5°	4686.0	4678.8	4696.8	4708.8	4749.6	4776.0	4884.0	4941.6	5011.2	5065.2	5323.2
55°	5301.6	5298.0	5324.4	5334.0	5388.0	5452.8	5572.8	5698.8	5817.6	5883.6	6236.4
57.5°	5743.2	5752.8	5798.4	5862.0	5967.6	6105.6	6284.4	6562.8	6788.4	6860.4	7249.2
60°	5840.4	5871.6	5940.0	6067.2	6248.4	6505.2	6856.8	7282.8	7695.6	7833.6	8198.4
62.5°	5568.0	5604.0	5704.8	5857.2	6093.6	6474.0	6981.6	7582.8	8196.0	8503.2	8686.8
63°	5481.6	5526.0	5601.6	5778.0	6018.0	6393.6	6933.6	7581.6	8217.6	8552.4	8696.4
65°	5076.0	5084.4	5197.2	5373.6	5643.6	6033.6	6578.4	7327.2	8032.8	8419.2	8319.6
67.5°	4368.0	4402.8	4497.6	4675.2	4938.0	5343.6	5935.2	6627.6	7248.0	7556.4	7111.2
70°	3529.2	3526.8	3644.4	3787.2	4018.8	4375.2	4893.6	5518.8	6010.8	6235.2	5490.0
72.5°	2521.2	2458.8	2545.2	2703.6	2893.2	3177.6	3588.0	4074.0	4514.4	4708.8	4014.0
75°	1148.4	1131.6	1208.4	1365.6	1557.6	1810.8	2148.0	2568.0	2990.4	3218.4	2557.2
77.5°	386.4	391.2	421.2	477.6	580.8	708.0	918.0	1186.8	1528.8	1754.4	1200.0
80°	259.2	266.4	276.0	284.4	296.4	315.6	361.2	430.8	536.4	649.2	379.2
82.5°	212.4	220.8	242.4	252.0	259.2	265.2	268.8	273.6	273.6	276.0	240.0
85°	152.4	166.8	195.6	213.6	220.8	225.6	231.6	238.8	228.0	218.4	186.0
87.5°	52.8	72.0	105.6	116.4	124.8	126.0	134.4	148.8	141.6	115.2	56.4
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°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1287.6	1286.4	1287.6	1288.8	1288.8	1288.8	1290.0	1291.2	1291.2
5°	1311.6	1312.8	1311.6	1312.8	1312.8	1314.0	1314.0	1316.4	1316.4
7.5°	1352.4	1354.8	1353.6	1356.0	1356.0	1358.4	1357.2	1360.8	1360.8
10°	1407.6	1410.0	1412.4	1413.6	1412.4	1414.8	1417.2	1418.4	1417.2
12.5°	1470.0	1471.2	1470.0	1472.4	1472.4	1474.8	1474.8	1478.4	1478.4
15°	1527.6	1526.4	1525.2	1528.8	1531.2	1532.4	1534.8	1538.4	1534.8
17.5°	1579.2	1580.4	1578.0	1581.6	1586.4	1590.0	1592.4	1597.2	1596.0
20°	1630.8	1628.4	1630.8	1636.8	1641.6	1646.4	1651.2	1658.4	1657.2
22.5°	1681.2	1683.6	1689.6	1694.4	1702.8	1710.0	1716.0	1725.6	1729.2
25°	1752.0	1752.0	1761.6	1767.6	1779.6	1789.2	1802.4	1813.2	1819.2
27.5°	1842.0	1842.0	1852.8	1866.0	1884.0	1900.8	1915.2	1929.6	1927.2
30°	1964.4	1970.4	1980.0	1996.8	2020.8	2041.2	2060.4	2074.8	2076.0
32.5°	2125.2	2132.4	2161.2	2204.4	2254.8	2293.2	2322.0	2356.8	2361.6
35°	2490.0	2508.0	2545.2	2580.0	2600.4	2623.2	2637.6	2638.8	2641.2
37.5°	2874.0	2842.8	2814.0	2787.6	2775.6	2773.2	2773.2	2778.0	2780.4
40°	3014.4	2998.8	2985.6	2968.8	2973.6	2972.4	2980.8	2988.0	2992.8
42.5°	3254.4	3242.4	3230.4	3208.8	3220.8	3217.2	3229.2	3240.0	3246.0
45°	3589.2	3552.0	3525.6	3490.8	3502.8	3495.6	3495.6	3508.8	3511.2
47.5°	3958.8	3915.6	3861.6	3818.4	3804.0	3790.8	3802.8	3802.8	3789.6
50°	4401.6	4350.0	4286.4	4216.8	4192.8	4179.6	4184.4	4190.4	4153.2
52.5°	5002.8	4945.2	4855.2	4749.6	4726.8	4716.0	4713.6	4705.2	4695.6
55°	5817.6	5709.6	5599.2	5460.0	5418.0	5406.0	5407.2	5397.6	5420.4
57.5°	6778.8	6620.4	6366.0	6196.8	6096.0	6057.6	6022.8	6008.4	6009.6
60°	7730.4	7407.6	7027.2	6732.0	6520.8	6386.4	6280.8	6222.0	6205.2
62.5°	8343.6	7836.0	7264.8	6786.0	6439.2	6217.2	6050.4	5944.8	5911.2
63°	8391.6	7854.0	7243.2	6729.6	6364.8	6132.0	5956.8	5847.6	5811.6
65°	8287.2	7672.8	6961.2	6349.2	5949.6	5691.6	5502.0	5398.8	5371.2
67.5°	7476.0	6964.8	6240.0	5607.6	5204.4	4942.8	4725.6	4627.2	4596.0
70°	6081.6	5731.2	5137.2	4597.2	4221.6	3969.6	3750.0	3668.4	3667.2
72.5°	4508.4	4053.6	3699.6	3303.6	2976.0	2775.6	2584.8	2493.6	2448.0
75°	2982.0	2494.8	2098.8	1765.2	1438.8	1258.8	1044.0	951.6	897.6
77.5°	1502.4	1113.6	798.0	553.2	429.6	352.8	322.8	307.2	306.0
80°	500.4	375.6	322.8	302.4	296.4	297.6	294.0	288.0	280.8
82.5°	277.2	291.6	294.0	285.6	285.6	280.8	276.0	253.2	241.2
85°	237.6	261.6	264.0	259.2	258.0	250.8	242.4	211.2	193.2
87.5°	148.8	171.6	168.0	150.0	165.6	154.8	146.4	94.8	69.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)