

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: P157348

Luminaire Tested: **VST-E05-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157348
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-E05-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13499.1 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 127.3
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

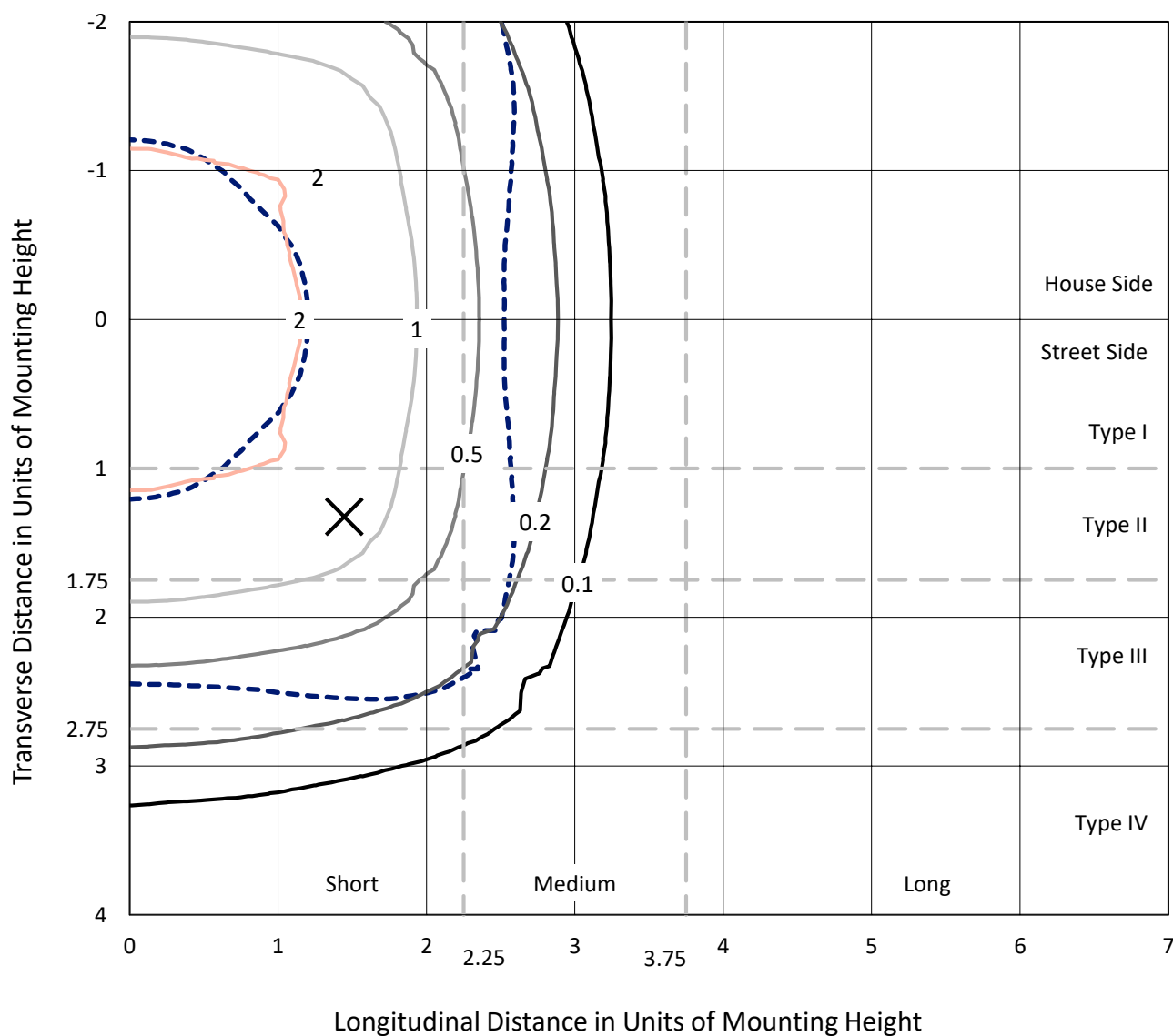


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

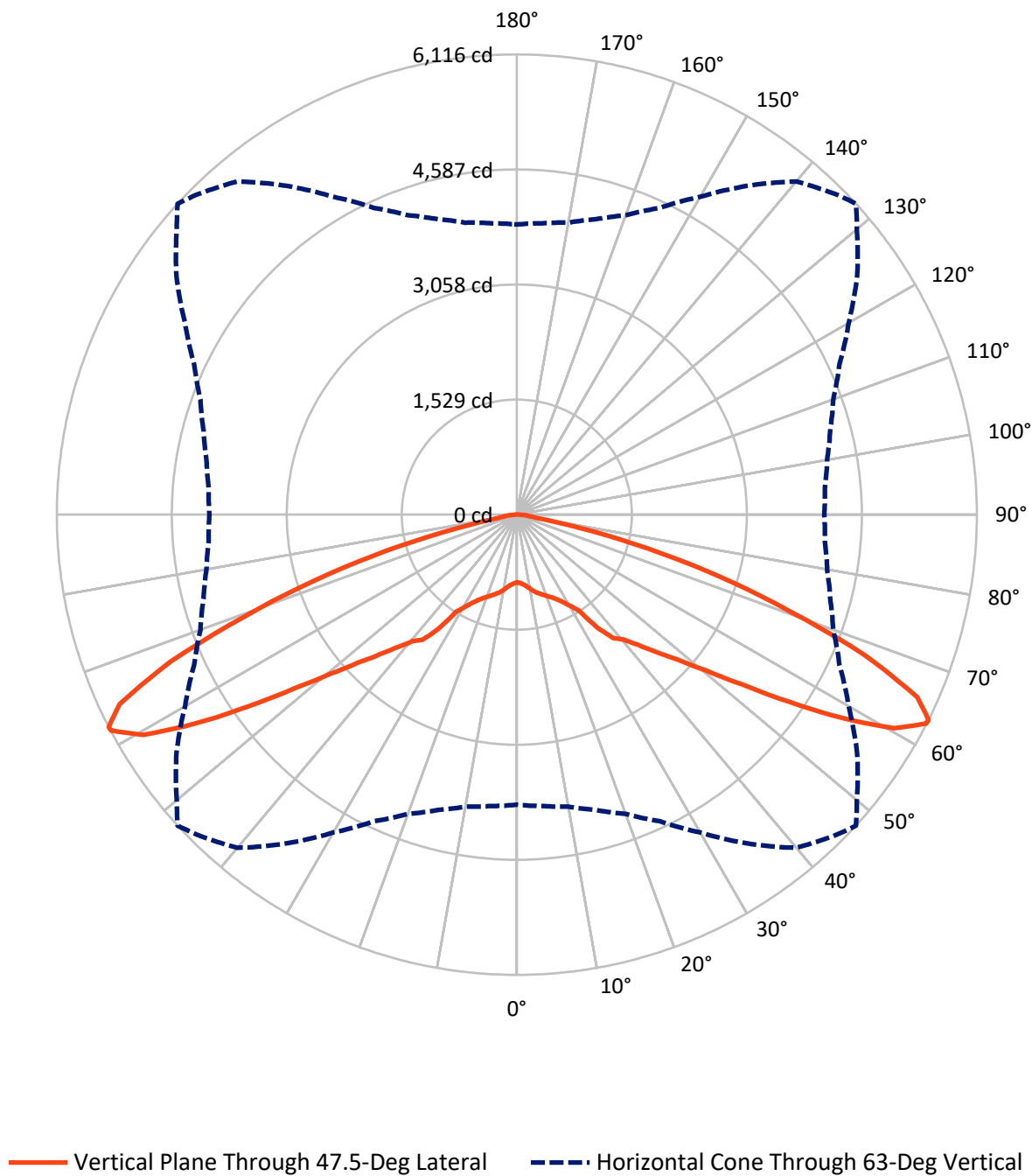


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6749.5	0.0	6749.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6749.5	0.0	6749.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13499.1	0.0	13499.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	0.7
10°-20°	307.6	2.3
20°-30°	588.4	4.4
30°-40°	1125.6	8.3
40°-50°	1947.6	14.4
50°-60°	3497.8	25.9
60°-70°	4253.4	31.5
70°-80°	1536.1	11.4
80°-90°	152.1	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°	13499.1	100.0
0°-180°	13499.1	100.0

Coefficient of Utilization



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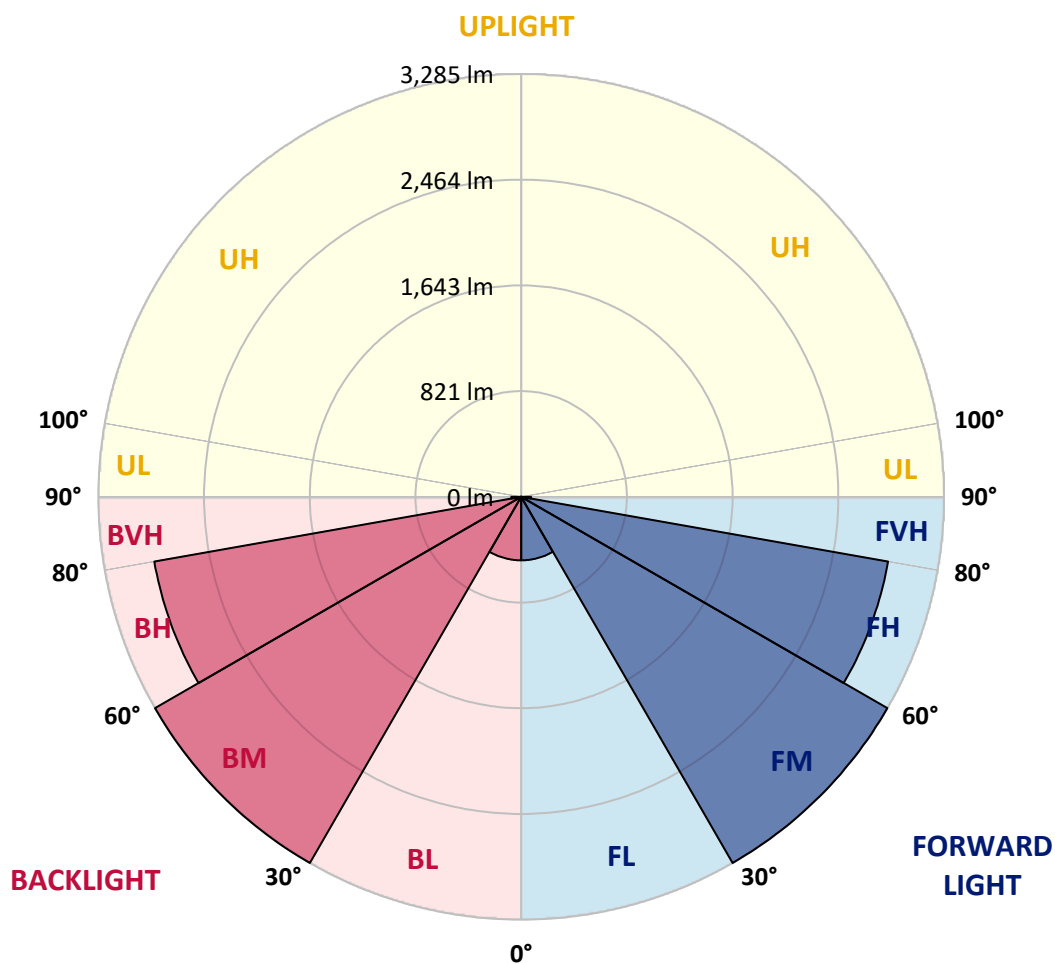
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	493.3	3.7			
FM	(30°-60°)	3285.5	24.3			
FH	(60°-80°)	2894.7	21.4			G2/5000
FVH	(80°-90°)	76.1	0.6			G1/100
BL	(0°-30°)	493.3	3.7	B1/500		
BM	(30°-60°)	3285.5	24.3	B3/5000		
BH	(60°-80°)	2894.7	21.4	B4/5000		G2/5000
BVH	(80°-90°)	76.1	0.6			G1/100
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°	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4
2.5°	907.3	905.6	906.4	907.3	906.4	905.6	905.6	905.6	907.3	905.6	909.8
5°	925.0	923.3	924.2	924.2	924.2	922.5	922.5	922.5	921.6	922.5	931.8
7.5°	958.8	956.2	955.4	957.1	955.4	954.6	953.7	953.7	952.0	952.0	963.8
10°	999.3	995.9	997.6	998.4	995.9	994.2	994.2	994.2	991.7	990.8	1006.0
12.5°	1044.0	1042.3	1042.3	1040.6	1039.8	1038.1	1037.3	1038.1	1034.7	1034.7	1049.9
15°	1087.1	1083.7	1084.5	1082.0	1080.3	1078.6	1077.8	1076.9	1075.2	1075.2	1084.5
17.5°	1126.7	1124.2	1123.4	1120.8	1118.3	1115.8	1114.1	1113.2	1110.7	1110.7	1119.1
20°	1168.1	1165.6	1163.9	1159.6	1155.4	1152.9	1149.5	1147.8	1144.5	1145.3	1154.6
22.5°	1215.3	1211.1	1207.8	1204.4	1196.8	1191.7	1187.5	1184.1	1182.4	1182.4	1195.1
25°	1278.6	1276.1	1271.1	1260.1	1250.8	1243.2	1236.4	1233.1	1229.7	1228.0	1247.4
27.5°	1356.3	1353.8	1347.0	1336.0	1323.4	1310.7	1303.1	1297.2	1293.0	1290.5	1318.3
30°	1459.3	1455.0	1449.1	1431.4	1420.4	1401.0	1392.6	1384.1	1374.9	1377.4	1410.3
32.5°	1661.0	1655.1	1636.5	1617.1	1583.3	1557.2	1530.2	1509.9	1490.5	1488.0	1523.4
35°	1844.1	1841.6	1838.2	1824.7	1812.0	1796.0	1783.4	1762.3	1744.5	1740.3	1839.9
37.5°	1942.9	1948.8	1943.7	1942.0	1942.0	1949.6	1973.3	1996.9	2013.8	2023.9	2079.6
40°	2093.9	2093.9	2088.0	2084.7	2077.9	2088.0	2098.2	2115.9	2123.5	2124.3	2180.9
42.5°	2265.3	2266.1	2260.2	2250.1	2246.7	2256.0	2269.5	2286.4	2296.5	2299.0	2364.9
45°	2456.0	2453.5	2448.4	2445.0	2447.6	2456.0	2472.0	2505.0	2520.2	2532.0	2603.7
47.5°	2662.8	2679.7	2665.3	2667.9	2667.9	2694.0	2730.3	2757.3	2781.8	2804.6	2880.5
50°	2933.7	2936.2	2938.8	2946.4	2951.4	2986.0	3031.6	3063.7	3099.1	3128.7	3252.7
52.5°	3295.8	3290.7	3303.4	3311.8	3340.5	3359.1	3435.0	3475.6	3524.5	3562.5	3743.9
55°	3728.8	3726.2	3744.8	3751.5	3789.5	3835.1	3919.5	4008.1	4091.7	4138.1	4386.2
57.5°	4039.3	4046.1	4078.2	4122.9	4197.2	4294.2	4420.0	4615.8	4774.5	4825.1	5098.5
60°	4107.7	4129.6	4177.8	4267.2	4394.7	4575.3	4822.6	5122.2	5412.5	5509.6	5766.1
62.5°	3916.1	3941.4	4012.3	4119.5	4285.8	4553.3	4910.3	5333.2	5764.5	5980.5	6109.7
63°	3855.4	3886.6	3939.7	4063.8	4232.6	4496.8	4876.6	5332.3	5779.6	6015.1	6116.4
65°	3570.1	3576.0	3655.3	3779.4	3969.3	4243.6	4626.8	5153.4	5649.7	5921.4	5851.4
67.5°	3072.1	3096.6	3163.3	3288.2	3473.0	3758.3	4174.4	4661.4	5097.7	5314.6	5001.5
70°	2482.2	2480.5	2563.2	2663.6	2826.5	3077.2	3441.8	3881.5	4227.6	4385.4	3861.3
72.5°	1773.2	1729.3	1790.1	1901.5	2034.9	2234.9	2523.5	2865.3	3175.1	3311.8	2823.1
75°	807.7	795.9	849.9	960.5	1095.5	1273.6	1510.7	1806.1	2103.2	2263.6	1798.5
77.5°	271.8	275.1	296.2	335.9	408.5	498.0	645.7	834.7	1075.2	1233.9	844.0
80°	182.3	187.4	194.1	200.0	208.5	222.0	254.0	303.0	377.3	456.6	266.7
82.5°	149.4	155.3	170.5	177.2	182.3	186.5	189.1	192.4	192.4	194.1	168.8
85°	107.2	117.3	137.6	150.2	155.3	158.7	162.9	168.0	160.4	153.6	130.8
87.5°	37.1	50.6	74.3	81.9	87.8	88.6	94.5	104.7	99.6	81.0	39.7
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°	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4	901.4
2.5°	905.6	904.8	905.6	906.4	906.4	906.4	907.3	908.1	908.1
5°	922.5	923.3	922.5	923.3	923.3	924.2	924.2	925.9	925.9
7.5°	951.2	952.9	952.0	953.7	953.7	955.4	954.6	957.1	957.1
10°	990.0	991.7	993.4	994.2	993.4	995.1	996.8	997.6	996.8
12.5°	1033.9	1034.7	1033.9	1035.6	1035.6	1037.3	1037.3	1039.8	1039.8
15°	1074.4	1073.6	1072.7	1075.2	1076.9	1077.8	1079.5	1082.0	1079.5
17.5°	1110.7	1111.5	1109.8	1112.4	1115.8	1118.3	1120.0	1123.4	1122.5
20°	1147.0	1145.3	1147.0	1151.2	1154.6	1158.0	1161.3	1166.4	1165.6
22.5°	1182.4	1184.1	1188.3	1191.7	1197.6	1202.7	1206.9	1213.7	1216.2
25°	1232.2	1232.2	1239.0	1243.2	1251.6	1258.4	1267.7	1275.3	1279.5
27.5°	1295.5	1295.5	1303.1	1312.4	1325.1	1336.9	1347.0	1357.1	1355.4
30°	1381.6	1385.8	1392.6	1404.4	1421.3	1435.6	1449.1	1459.3	1460.1
32.5°	1494.7	1499.8	1520.0	1550.4	1585.9	1612.9	1633.1	1657.6	1661.0
35°	1751.3	1763.9	1790.1	1814.6	1828.9	1845.0	1855.1	1855.9	1857.6
37.5°	2021.4	1999.4	1979.2	1960.6	1952.2	1950.5	1950.5	1953.8	1955.5
40°	2120.1	2109.1	2099.8	2088.0	2091.4	2090.6	2096.5	2101.5	2104.9
42.5°	2288.9	2280.5	2272.0	2256.8	2265.3	2262.7	2271.2	2278.8	2283.0
45°	2524.4	2498.2	2479.6	2455.2	2463.6	2458.5	2458.5	2467.8	2469.5
47.5°	2784.3	2753.9	2716.0	2685.6	2675.5	2666.2	2674.6	2674.6	2665.3
50°	3095.8	3059.5	3014.7	2965.8	2948.9	2939.6	2943.0	2947.2	2921.1
52.5°	3518.6	3478.1	3414.8	3340.5	3324.5	3316.9	3315.2	3309.3	3302.5
55°	4091.7	4015.7	3938.1	3840.2	3810.6	3802.2	3803.0	3796.3	3812.3
57.5°	4767.7	4656.3	4477.4	4358.4	4287.5	4260.5	4236.0	4225.9	4226.7
60°	5437.0	5210.0	4942.4	4734.8	4586.2	4491.7	4417.4	4376.1	4364.3
62.5°	5868.3	5511.3	5109.5	4772.8	4528.9	4372.7	4255.4	4181.1	4157.5
63°	5902.0	5523.9	5094.3	4733.1	4476.5	4312.8	4189.6	4112.8	4087.4
65°	5828.6	5396.5	4896.0	4465.6	4184.5	4003.0	3869.7	3797.1	3777.7
67.5°	5258.1	4898.5	4388.8	3944.0	3660.4	3476.4	3323.6	3254.4	3232.5
70°	4277.3	4030.9	3613.1	3233.3	2969.2	2791.9	2637.5	2580.1	2579.2
72.5°	3170.9	2851.0	2602.0	2323.5	2093.1	1952.2	1818.0	1753.8	1721.7
75°	2097.3	1754.7	1476.1	1241.5	1011.9	885.3	734.3	669.3	631.3
77.5°	1056.7	783.2	561.3	389.1	302.1	248.1	227.0	216.1	215.2
80°	351.9	264.2	227.0	212.7	208.5	209.3	206.8	202.6	197.5
82.5°	195.0	205.1	206.8	200.9	200.9	197.5	194.1	178.1	169.6
85°	167.1	184.0	185.7	182.3	181.5	176.4	170.5	148.5	135.9
87.5°	104.7	120.7	118.2	105.5	116.5	108.9	103.0	66.7	49.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)