

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: P147590

Luminaire Tested: **AVS-E04-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147590
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-E04-LED-E-U-5MQ
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12895.1 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 97.2
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



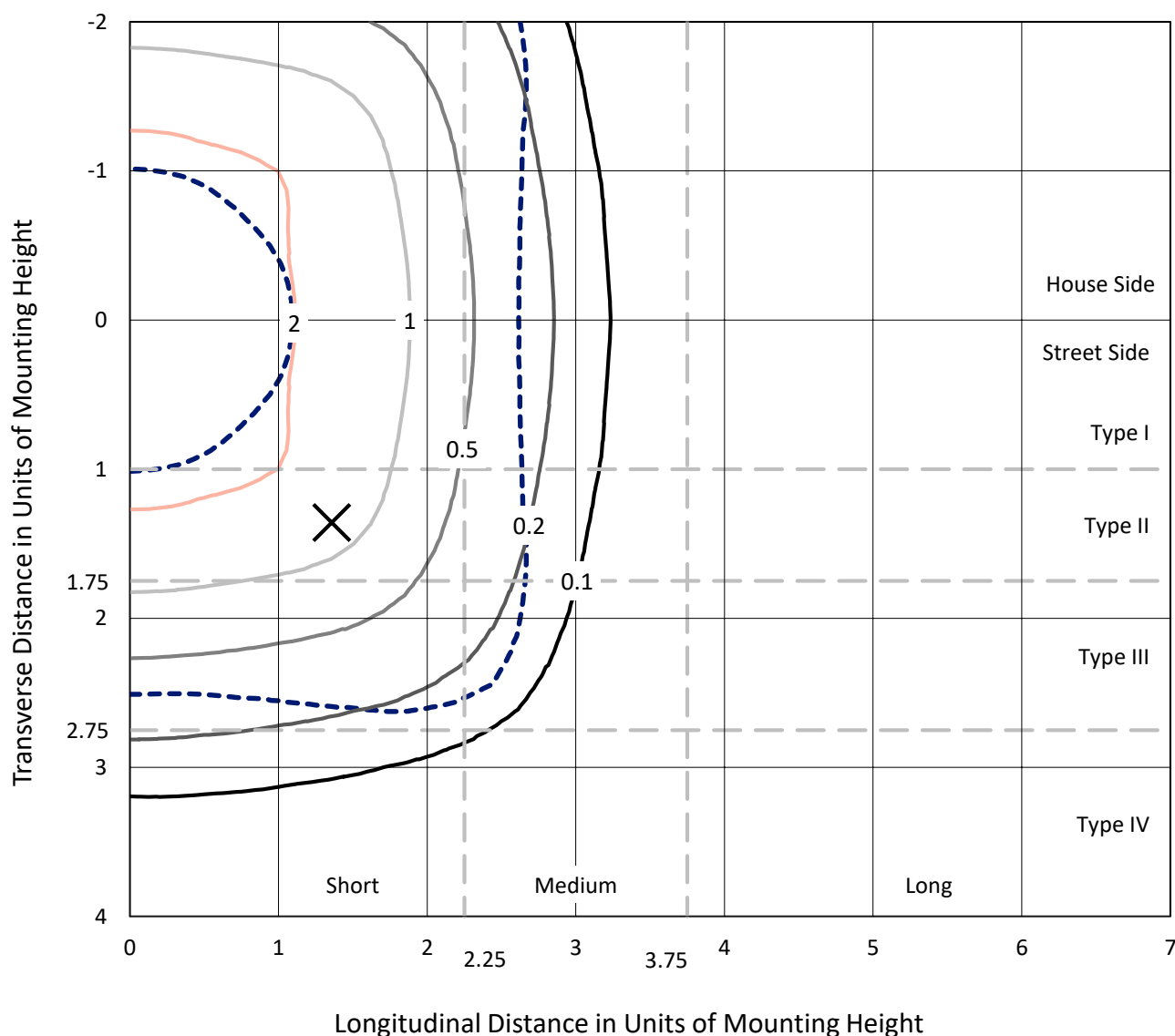
REPORT NUMBER: P147590

CATALOG NUMBER: AVS-E04-LED-E-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

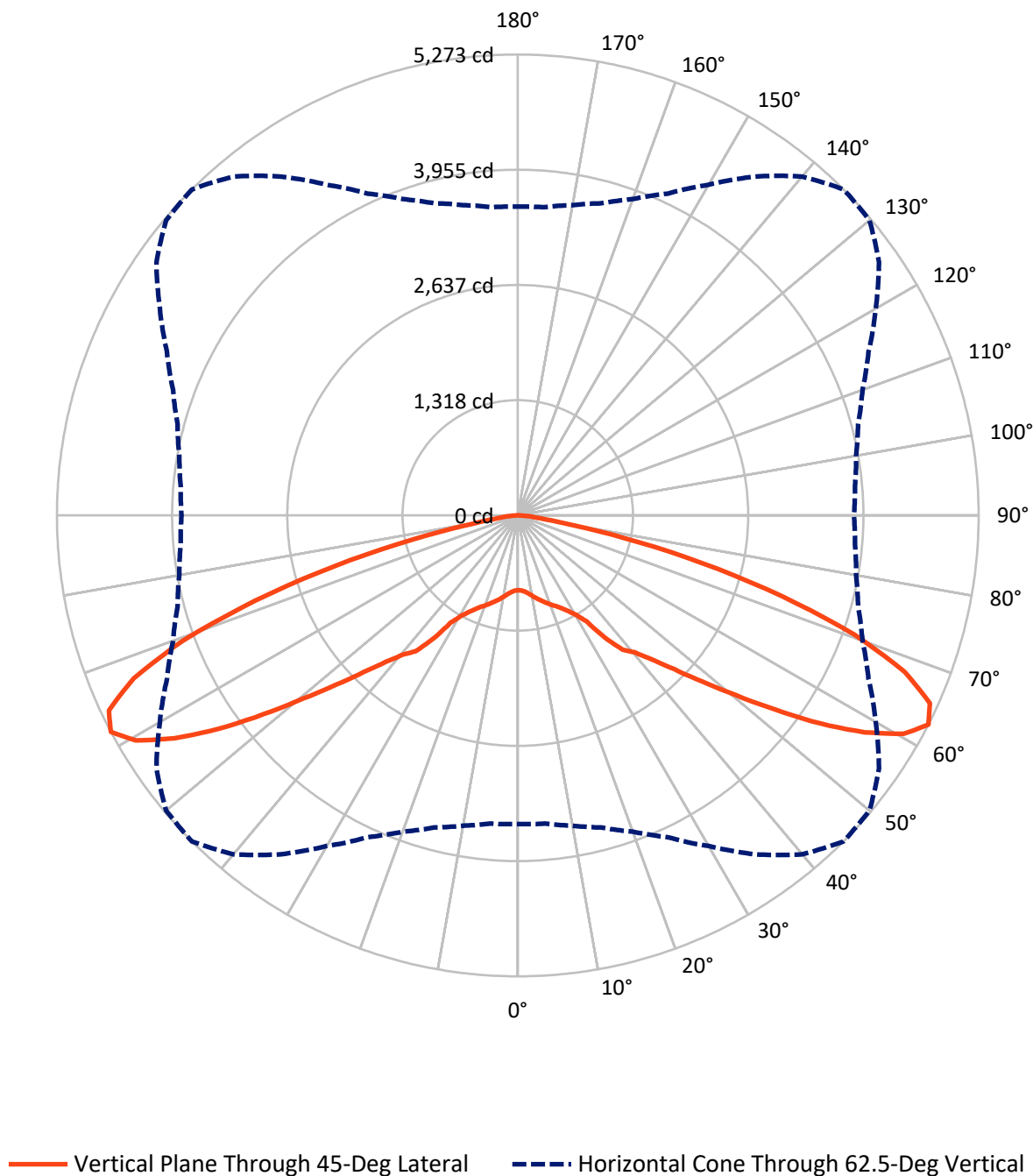


Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P147590

CATALOG NUMBER: AVS-E04-LED-E-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P147590

CATALOG NUMBER: AVS-E04-LED-E-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6447.5	0.0	6447.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6447.5	0.0	6447.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12895.1	0.0	12895.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	0.7
10°-20°	290.0	2.2
20°-30°	560.7	4.3
30°-40°	1085.6	8.4
40°-50°	1960.1	15.2
50°-60°	3408.3	26.4
60°-70°	3869.3	30.0
70°-80°	1500.1	11.6
80°-90°	135.3	1.0
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°	12895.1	100.0
0°-180°	12895.1	100.0

Coefficient of Utilization



REPORT NUMBER: P147590

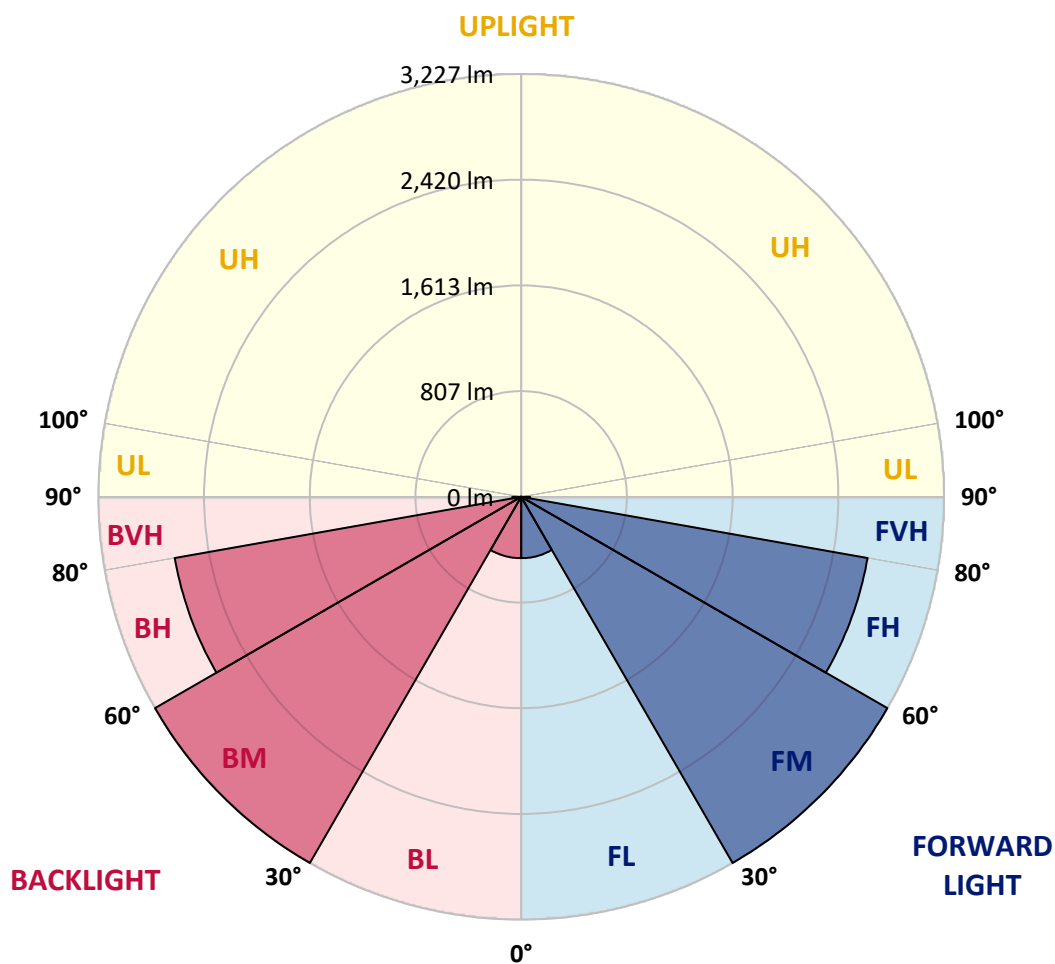
CATALOG NUMBER: AVS-E04-LED-E-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.2	3.6			
FM	(30°-60°)	3227.0	25.0			
FH	(60°-80°)	2684.7	20.8			G2/5000
FVH	(80°-90°)	67.7	0.5			G1/100
BL	(0°-30°)	468.2	3.6	B1/500		
BM	(30°-60°)	3227.0	25.0	B3/5000		
BH	(60°-80°)	2684.7	20.8	B4/5000		G2/5000
BVH	(80°-90°)	67.7	0.5			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





REPORT NUMBER: P147590

CATALOG NUMBER: AVS-E04-LED-E-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	861.3	864.0	863.4	862.0	862.0	862.0	861.3	859.3	858.7	860.0	861.3
5°	881.3	881.3	881.3	881.3	880.0	880.0	878.7	877.3	877.9	876.7	876.1
7.5°	911.9	910.1	910.1	909.3	909.3	908.0	906.0	903.3	904.0	903.3	902.6
10°	948.0	948.6	946.6	948.6	945.3	944.7	942.0	940.7	940.0	938.0	938.0
12.5°	991.3	989.3	989.3	988.0	986.7	985.3	981.3	980.7	978.0	976.6	974.7
15°	1032.0	1031.3	1028.6	1026.0	1025.3	1024.0	1019.3	1016.7	1016.0	1012.6	1009.9
17.5°	1072.6	1071.3	1068.0	1066.7	1064.0	1062.0	1058.0	1054.1	1052.0	1050.7	1047.4
20°	1116.1	1114.6	1111.3	1108.6	1105.3	1102.6	1096.6	1093.4	1091.4	1089.3	1086.6
22.5°	1169.9	1167.4	1162.1	1157.3	1150.1	1147.4	1139.3	1134.7	1131.3	1128.7	1127.4
25°	1228.7	1229.4	1222.0	1216.0	1207.4	1200.0	1190.1	1184.7	1181.3	1178.7	1178.0
27.5°	1302.0	1302.7	1296.0	1287.4	1274.0	1266.0	1252.6	1246.0	1243.9	1241.3	1240.6
30°	1418.0	1412.0	1400.6	1386.7	1374.7	1357.3	1338.0	1331.4	1324.7	1322.7	1322.7
32.5°	1631.3	1628.0	1618.8	1584.0	1568.0	1532.0	1498.0	1478.7	1456.7	1446.0	1439.4
35°	1780.7	1779.3	1772.0	1760.0	1750.1	1742.6	1722.7	1719.4	1715.3	1715.3	1720.6
37.5°	1890.7	1882.7	1881.3	1883.3	1880.6	1882.1	1898.0	1920.0	1938.7	1948.0	1946.7
40°	2053.3	2042.1	2048.7	2043.9	2037.9	2036.7	2042.1	2050.7	2059.3	2059.3	2057.3
42.5°	2266.0	2271.3	2274.0	2254.7	2242.1	2238.8	2251.3	2248.7	2257.4	2254.0	2245.4
45°	2582.0	2578.7	2574.0	2550.7	2530.7	2514.6	2517.9	2513.4	2514.0	2508.6	2502.0
47.5°	2900.6	2912.0	2892.6	2881.3	2858.7	2847.4	2856.7	2848.7	2864.0	2836.0	2822.6
50°	3209.9	3218.0	3211.4	3195.3	3195.3	3211.3	3222.7	3237.3	3258.7	3226.6	3178.7
52.5°	3463.3	3470.1	3480.0	3493.4	3526.0	3560.0	3608.0	3659.3	3700.0	3694.0	3639.4
55°	3618.0	3626.0	3642.7	3688.7	3747.4	3836.7	3945.3	4064.7	4157.9	4203.3	4163.3
57.5°	3670.1	3676.1	3721.3	3776.6	3868.0	4000.6	4182.7	4388.6	4568.0	4682.0	4664.0
60°	3658.0	3658.0	3704.0	3780.0	3908.0	4083.9	4341.3	4626.6	4901.3	5072.0	5046.6
62.5°	3532.0	3538.7	3604.7	3696.0	3850.7	4061.3	4368.1	4732.6	5061.3	5273.4	5252.6
65°	3256.0	3260.6	3332.0	3440.6	3613.4	3862.7	4198.0	4602.1	4978.7	5182.7	5144.0
67.5°	2809.9	2814.6	2872.6	2995.2	3178.0	3438.8	3800.6	4245.4	4614.0	4775.3	4659.3
70°	2235.3	2248.7	2286.0	2416.0	2554.6	2809.9	3143.3	3588.0	3936.0	4088.7	3960.6
72.5°	1523.3	1557.3	1602.7	1717.9	1850.7	2062.7	2328.0	2702.6	2982.0	3158.7	3044.7
75°	858.0	905.9	920.0	1007.3	1116.7	1283.9	1478.0	1746.6	2028.6	2172.0	2034.6
77.5°	370.7	409.9	427.4	468.0	553.4	623.3	741.3	922.7	1140.7	1241.3	1076.7
80°	182.6	192.0	199.4	212.0	236.1	258.7	314.6	394.0	483.3	506.0	402.7
82.5°	141.3	148.0	160.6	170.7	176.7	182.6	188.0	198.7	207.3	212.0	200.0
85°	99.3	108.0	122.1	133.3	140.0	144.7	149.3	152.7	144.7	132.0	138.7
87.5°	26.0	34.0	47.4	51.4	58.0	61.3	60.0	62.0	56.0	40.6	45.4
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: P147590

CATALOG NUMBER: AVS-E04-LED-E-U-5MQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	860.7	860.0	860.7	860.7	860.7	860.0	860.0	860.0
5°	876.0	876.1	876.7	875.3	875.3	876.0	875.3	874.7
7.5°	902.0	901.3	901.3	900.7	901.3	900.7	900.7	900.0
10°	936.7	935.3	936.0	934.0	934.1	933.3	933.3	933.4
12.5°	974.0	972.0	972.6	970.6	967.3	968.1	968.7	968.0
15°	1009.9	1008.1	1006.0	1004.7	1002.7	1003.3	1003.3	1002.7
17.5°	1046.6	1042.7	1042.1	1040.0	1039.4	1039.4	1039.4	1040.0
20°	1084.7	1082.0	1081.3	1079.4	1078.7	1080.6	1081.2	1080.0
22.5°	1125.3	1123.9	1125.4	1123.9	1126.0	1127.3	1128.1	1126.6
25°	1176.7	1175.3	1177.4	1182.0	1184.7	1186.0	1189.4	1188.0
27.5°	1242.7	1241.3	1246.0	1252.6	1256.7	1263.3	1266.7	1268.0
30°	1328.0	1334.0	1336.7	1350.1	1352.6	1363.3	1363.3	1368.0
32.5°	1452.0	1463.3	1483.3	1504.0	1532.6	1553.4	1553.4	1564.0
35°	1723.9	1728.7	1744.0	1747.4	1753.4	1760.0	1753.4	1758.7
37.5°	1932.6	1911.9	1897.4	1876.7	1864.0	1864.0	1865.3	1864.0
40°	2039.4	2031.3	2024.7	2007.4	2004.7	2003.9	2003.9	2006.6
42.5°	2230.1	2210.7	2200.0	2185.3	2180.7	2179.3	2178.7	2180.0
45°	2478.0	2446.6	2418.0	2403.3	2390.7	2378.7	2382.6	2382.7
47.5°	2766.6	2717.9	2671.3	2646.0	2624.0	2614.0	2607.3	2605.3
50°	3118.0	3049.9	2990.1	2942.7	2910.7	2910.1	2913.4	2892.0
52.5°	3548.6	3441.3	3366.6	3302.7	3272.6	3269.3	3258.7	3246.6
55°	4026.0	3898.7	3775.3	3706.6	3667.4	3646.0	3633.4	3613.4
57.5°	4518.0	4346.6	4169.3	4059.3	3990.1	3942.0	3916.7	3905.3
60°	4897.3	4663.4	4429.3	4252.6	4137.4	4066.0	4022.0	4004.0
62.5°	5046.6	4729.3	4429.3	4197.3	4030.7	3932.0	3872.6	3846.6
65°	4868.6	4492.6	4151.3	3895.3	3709.3	3599.4	3534.7	3506.6
67.5°	4371.3	4039.4	3668.0	3413.4	3222.0	3113.4	3043.3	3022.7
70°	3664.7	3325.4	2970.7	2743.4	2572.6	2483.9	2411.4	2402.7
72.5°	2754.0	2461.3	2157.3	1969.3	1831.9	1685.4	1648.1	1666.6
75°	1765.4	1491.4	1220.6	1051.4	926.0	786.0	732.0	745.3
77.5°	836.1	647.3	467.4	361.3	303.3	259.3	248.0	241.3
80°	310.1	251.4	222.0	210.7	202.7	195.2	190.1	184.0
82.5°	200.6	196.1	190.1	188.0	182.0	172.6	155.3	148.0
85°	150.1	150.1	142.0	142.6	138.0	126.0	110.1	101.3
87.5°	43.9	39.4	36.1	33.4	32.6	29.3	21.3	18.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)