

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: P148060

Luminaire Tested: **AVM-E05-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148060
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVM-E05-LED-E-U-5WQ
Description: VISION SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15919 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): 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

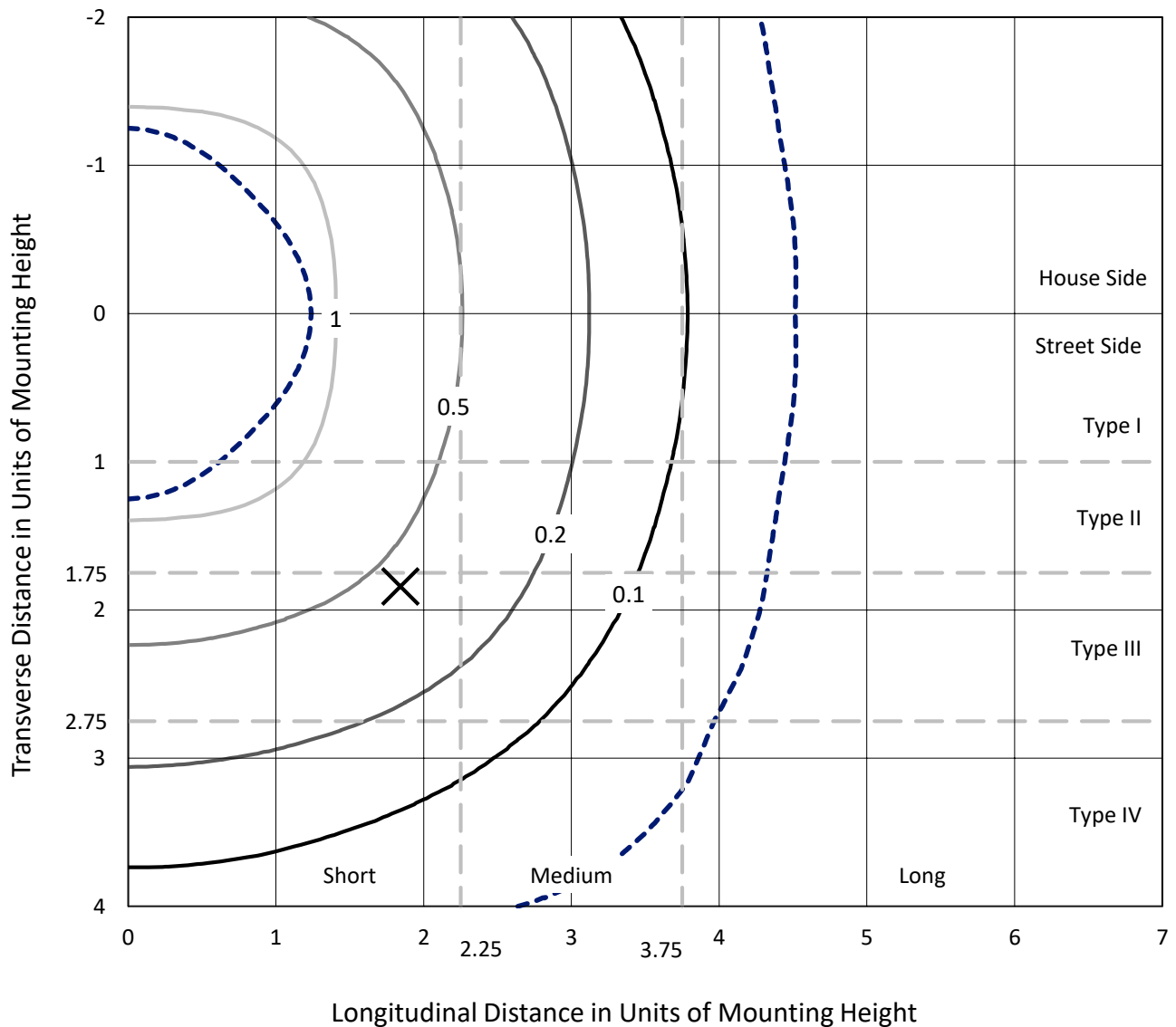


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

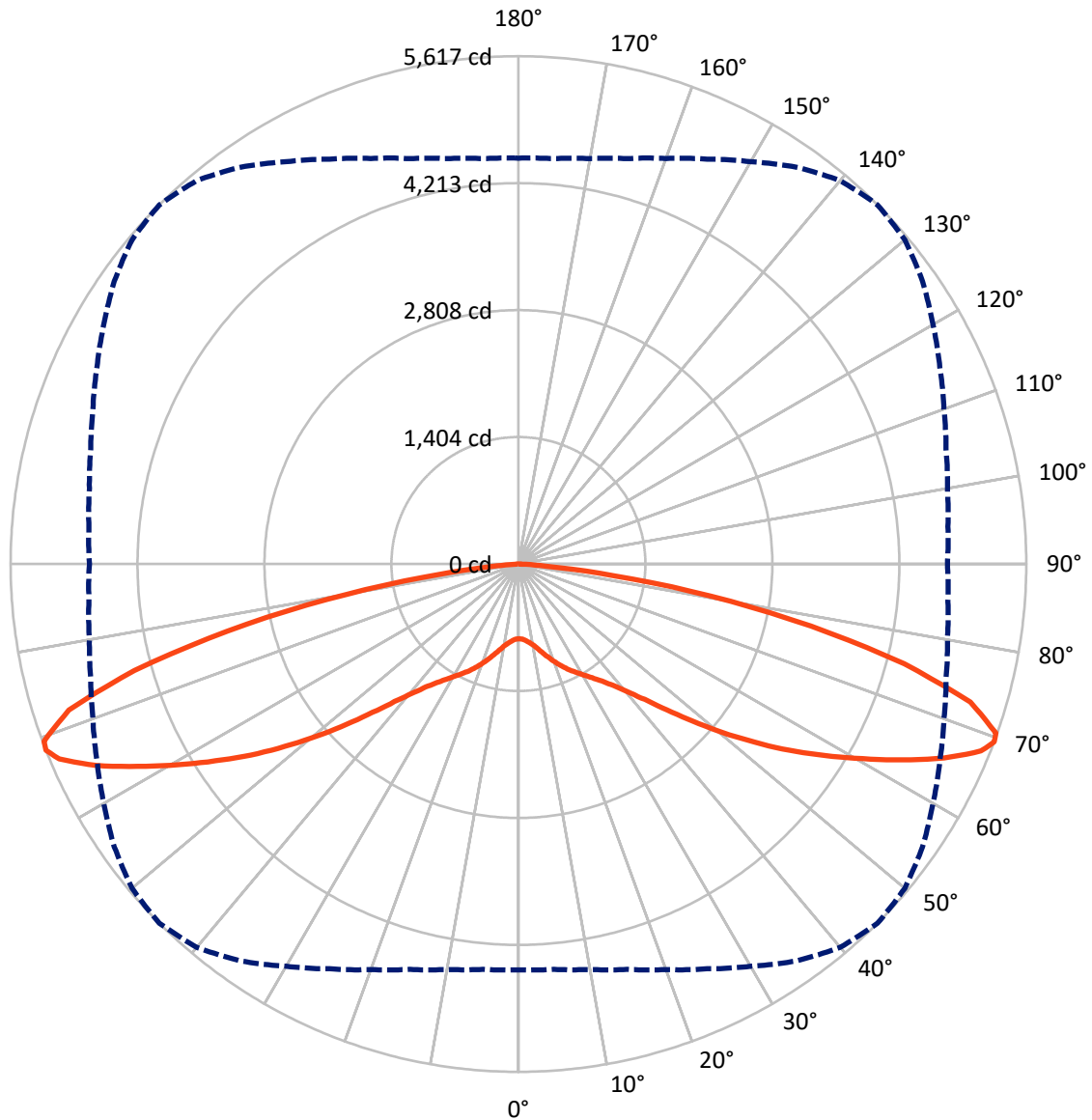


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7959.5	0.0	7959.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7959.5	0.0	7959.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15919.0	0.0	15919.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	0.5
10°-20°	293.1	1.8
20°-30°	593.5	3.7
30°-40°	995.1	6.3
40°-50°	1755.3	11.0
50°-60°	3095.4	19.4
60°-70°	4725.7	29.7
70°-80°	3948.8	24.8
80°-90°	429.1	2.7
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°	15919.0	100.0
0°-180°	15919.0	100.0



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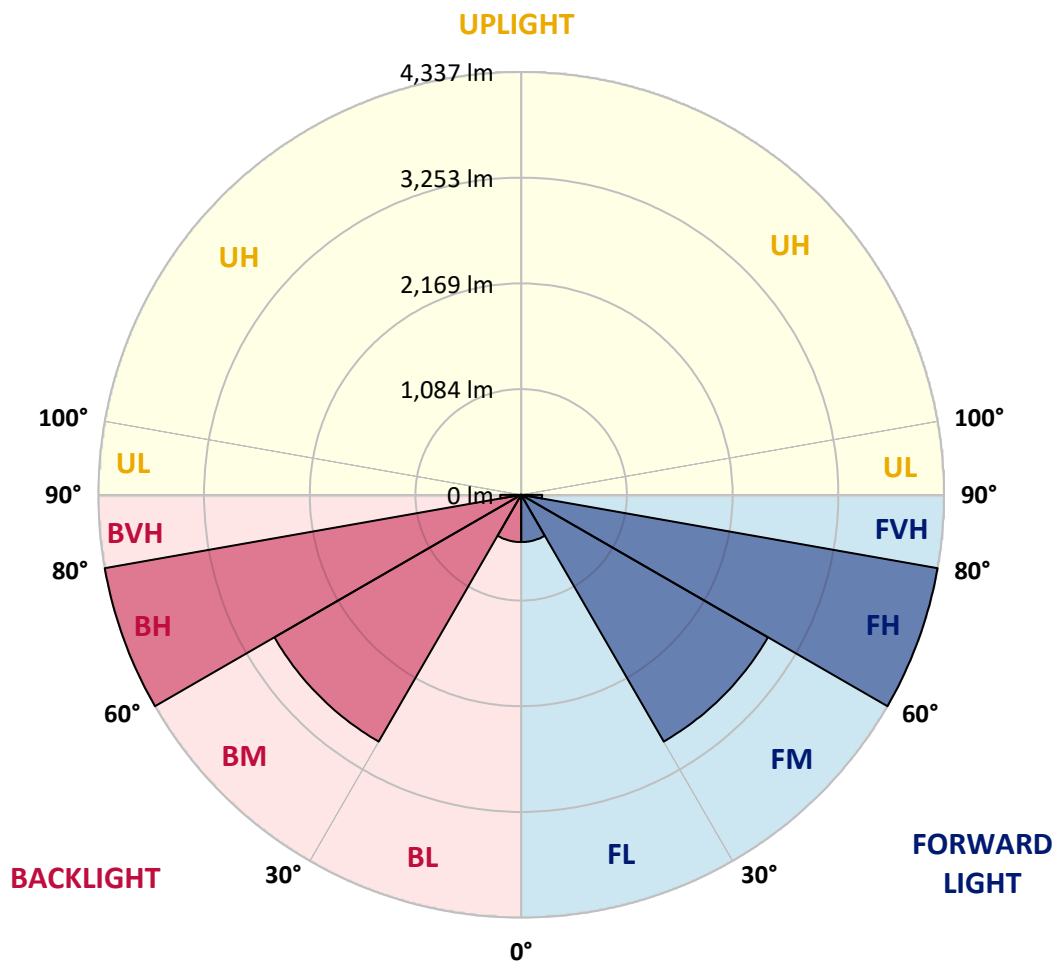
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	484.8	3.0			
FM	(30°-60°)	2922.9	18.4			
FH	(60°-80°)	4337.3	27.2			G2/5000
FVH	(80°-90°)	214.5	1.3			G2/225
BL	(0°-30°)	484.8	3.0	B1/500		
BM	(30°-60°)	2922.9	18.4	B3/5000		
BH	(60°-80°)	4337.3	27.2	B4/5000		G2/5000
BVH	(80°-90°)	214.5	1.3			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°	50°
0°	826.7	826.7	826.7	826.7	826.7	826.7	826.7	826.7	826.7	826.7	826.7
2.5°	833.3	835.0	833.3	833.3	833.3	833.3	833.3	831.7	831.7	831.7	833.3
5°	850.0	851.7	850.0	851.7	851.7	851.7	851.7	850.0	850.0	850.0	850.0
7.5°	876.7	876.7	876.7	878.3	876.7	876.7	878.3	876.7	876.7	876.7	876.7
10°	915.0	913.3	913.3	913.3	913.3	913.3	915.0	915.0	915.0	913.3	913.3
12.5°	961.7	960.0	961.7	961.7	963.3	963.3	963.3	963.3	963.3	963.3	961.7
15°	1018.3	1018.3	1018.3	1020.0	1023.3	1023.3	1021.7	1023.3	1023.3	1023.3	1023.3
17.5°	1081.7	1085.0	1081.7	1083.3	1085.0	1083.3	1086.7	1088.3	1090.0	1088.3	1083.3
20°	1146.7	1148.3	1148.3	1148.3	1148.3	1151.7	1153.3	1153.3	1158.3	1156.7	1155.0
22.5°	1208.3	1211.7	1211.7	1213.3	1213.3	1218.3	1218.3	1218.3	1221.7	1225.0	1221.7
25°	1273.3	1271.7	1271.7	1275.0	1276.7	1283.3	1283.3	1286.7	1291.7	1293.3	1290.0
27.5°	1331.7	1330.0	1330.0	1335.0	1336.7	1345.0	1345.0	1351.7	1355.0	1356.7	1353.3
30°	1393.3	1393.3	1391.7	1396.7	1401.7	1408.3	1411.7	1418.3	1423.3	1425.0	1421.7
32.5°	1466.7	1463.3	1465.0	1468.3	1471.7	1478.3	1483.3	1491.7	1498.3	1500.0	1496.7
35°	1550.0	1545.0	1546.7	1550.0	1555.0	1565.0	1573.3	1578.3	1588.3	1591.7	1585.0
37.5°	1641.7	1643.3	1641.7	1650.0	1658.3	1670.0	1680.0	1686.7	1696.7	1701.7	1696.7
40°	1771.7	1766.7	1771.7	1780.0	1793.3	1808.3	1828.3	1833.3	1843.3	1853.3	1841.7
42.5°	1940.0	1936.7	1948.3	1955.0	1970.0	1986.7	2011.7	2025.0	2040.0	2046.7	2036.7
45°	2160.0	2160.0	2173.3	2175.0	2198.3	2220.0	2255.0	2271.7	2300.0	2300.0	2300.0
47.5°	2403.3	2413.3	2421.7	2438.3	2455.0	2495.0	2530.0	2566.7	2593.3	2596.7	2591.7
50°	2655.0	2665.0	2690.0	2713.3	2750.0	2800.0	2838.3	2886.7	2910.0	2930.0	2923.3
52.5°	2933.3	2935.0	2965.0	2995.0	3048.3	3103.3	3165.0	3215.0	3256.7	3275.0	3260.0
55°	3238.3	3241.7	3268.3	3300.0	3360.0	3423.3	3500.0	3551.7	3605.0	3638.3	3613.3
57.5°	3568.3	3570.0	3596.7	3635.0	3706.7	3770.0	3843.3	3916.7	3966.7	3996.7	3980.0
60°	3933.3	3941.7	3961.7	4010.0	4078.3	4145.0	4218.3	4283.3	4341.7	4373.3	4356.7
62.5°	4323.3	4331.7	4360.0	4398.3	4458.3	4531.7	4601.7	4685.0	4733.3	4768.3	4743.3
65°	4585.0	4600.0	4645.0	4696.7	4785.0	4880.0	4961.7	5075.0	5133.3	5175.0	5151.7
67.5°	4601.7	4610.0	4665.0	4743.3	4861.7	5005.0	5171.7	5348.3	5463.3	5518.3	5478.3
69°	4488.3	4500.0	4553.3	4641.7	4773.3	4940.0	5138.3	5358.3	5535.0	5616.7	5578.3
70°	4360.0	4385.0	4443.3	4540.0	4668.3	4843.3	5048.3	5283.3	5490.0	5601.7	5573.3
72.5°	4090.0	4096.7	4135.0	4211.7	4310.0	4455.0	4648.3	4870.0	5066.7	5226.7	5250.0
75°	3630.0	3651.7	3680.0	3731.7	3781.7	3886.7	4016.7	4168.3	4283.3	4406.7	4411.7
77.5°	2743.3	2808.3	2830.0	2841.7	2863.3	2946.7	3060.0	3191.7	3286.7	3306.7	3303.3
80°	1231.7	1318.3	1338.3	1433.3	1491.7	1630.0	1803.3	2005.0	2140.0	2155.0	2118.3
82.5°	241.7	258.3	301.7	376.7	513.3	595.0	708.3	850.0	980.0	1055.0	1010.0
85°	80.0	85.0	98.3	108.3	125.0	141.7	171.7	213.3	265.0	293.3	261.7
87.5°	31.7	31.7	36.7	40.0	43.3	43.3	43.3	40.0	38.3	31.7	28.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	826.7	826.7	826.7	826.7	826.7	826.7	826.7	826.7
2.5°	831.7	831.7	831.7	831.7	831.7	831.7	831.7	831.7
5°	850.0	848.3	848.3	846.7	846.7	846.7	846.7	846.7
7.5°	875.0	873.3	871.7	873.3	871.7	871.7	871.7	871.7
10°	913.3	910.0	908.3	906.7	906.7	906.7	905.0	905.0
12.5°	958.3	958.3	956.7	955.0	951.7	953.3	951.7	948.3
15°	1020.0	1016.7	1015.0	1013.3	1010.0	1010.0	1010.0	1008.3
17.5°	1081.7	1078.3	1078.3	1073.3	1071.7	1071.7	1071.7	1073.3
20°	1150.0	1145.0	1141.7	1138.3	1135.0	1136.7	1133.3	1136.7
22.5°	1218.3	1211.7	1208.3	1203.3	1198.3	1198.3	1196.7	1193.3
25°	1285.0	1276.7	1273.3	1268.3	1261.7	1261.7	1258.3	1255.0
27.5°	1348.3	1340.0	1336.7	1326.7	1320.0	1318.3	1315.0	1313.3
30°	1418.3	1408.3	1403.3	1393.3	1383.3	1381.7	1376.7	1376.7
32.5°	1491.7	1481.7	1478.3	1463.3	1455.0	1455.0	1451.7	1448.3
35°	1583.3	1568.3	1565.0	1550.0	1538.3	1538.3	1535.0	1536.7
37.5°	1691.7	1680.0	1668.3	1656.7	1643.3	1641.7	1638.3	1635.0
40°	1836.7	1823.3	1810.0	1793.3	1781.7	1778.3	1773.3	1771.7
42.5°	2030.0	2016.7	1990.0	1976.7	1965.0	1955.0	1953.3	1951.7
45°	2276.7	2260.0	2241.7	2216.7	2201.7	2180.0	2176.7	2168.3
47.5°	2573.3	2541.7	2510.0	2488.3	2465.0	2440.0	2435.0	2421.7
50°	2888.3	2863.3	2810.0	2775.0	2738.3	2713.3	2696.7	2691.7
52.5°	3226.7	3180.0	3126.7	3080.0	3026.7	2993.3	2963.3	2955.0
55°	3580.0	3513.3	3446.7	3391.7	3338.3	3298.3	3270.0	3256.7
57.5°	3933.3	3860.0	3786.7	3726.7	3681.7	3630.0	3601.7	3595.0
60°	4301.7	4231.7	4156.7	4096.7	4041.7	3996.7	3980.0	3948.3
62.5°	4691.7	4618.3	4548.3	4490.0	4420.0	4388.3	4360.0	4341.7
65°	5075.0	4990.0	4901.7	4840.0	4770.0	4725.0	4690.0	4665.0
67.5°	5371.7	5243.3	5125.0	5021.7	4926.7	4856.7	4811.7	4788.3
69°	5455.0	5295.0	5143.3	5008.3	4896.7	4818.3	4768.3	4745.0
70°	5445.0	5268.3	5101.7	4953.3	4831.7	4748.3	4700.0	4656.7
72.5°	5136.7	4975.0	4790.0	4628.3	4518.3	4438.3	4390.0	4366.7
75°	4383.3	4275.0	4141.7	4016.7	3936.7	3890.0	3830.0	3831.7
77.5°	3191.7	3195.0	3105.0	2976.7	2886.7	2870.0	2843.3	2816.7
80°	1980.0	1821.7	1718.3	1580.0	1478.3	1390.0	1351.7	1268.3
82.5°	913.3	713.3	553.3	418.3	321.7	251.7	220.0	180.0
85°	203.3	155.0	128.3	103.3	88.3	81.7	66.7	61.7
87.5°	28.3	25.0	23.3	21.7	18.3	13.3	10.0	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)