

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: P147591

Luminaire Tested: **AVS-E04-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147591
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-7050
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13231.7 lumens
Efficiency: N/A
Efficacy: 136.1 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

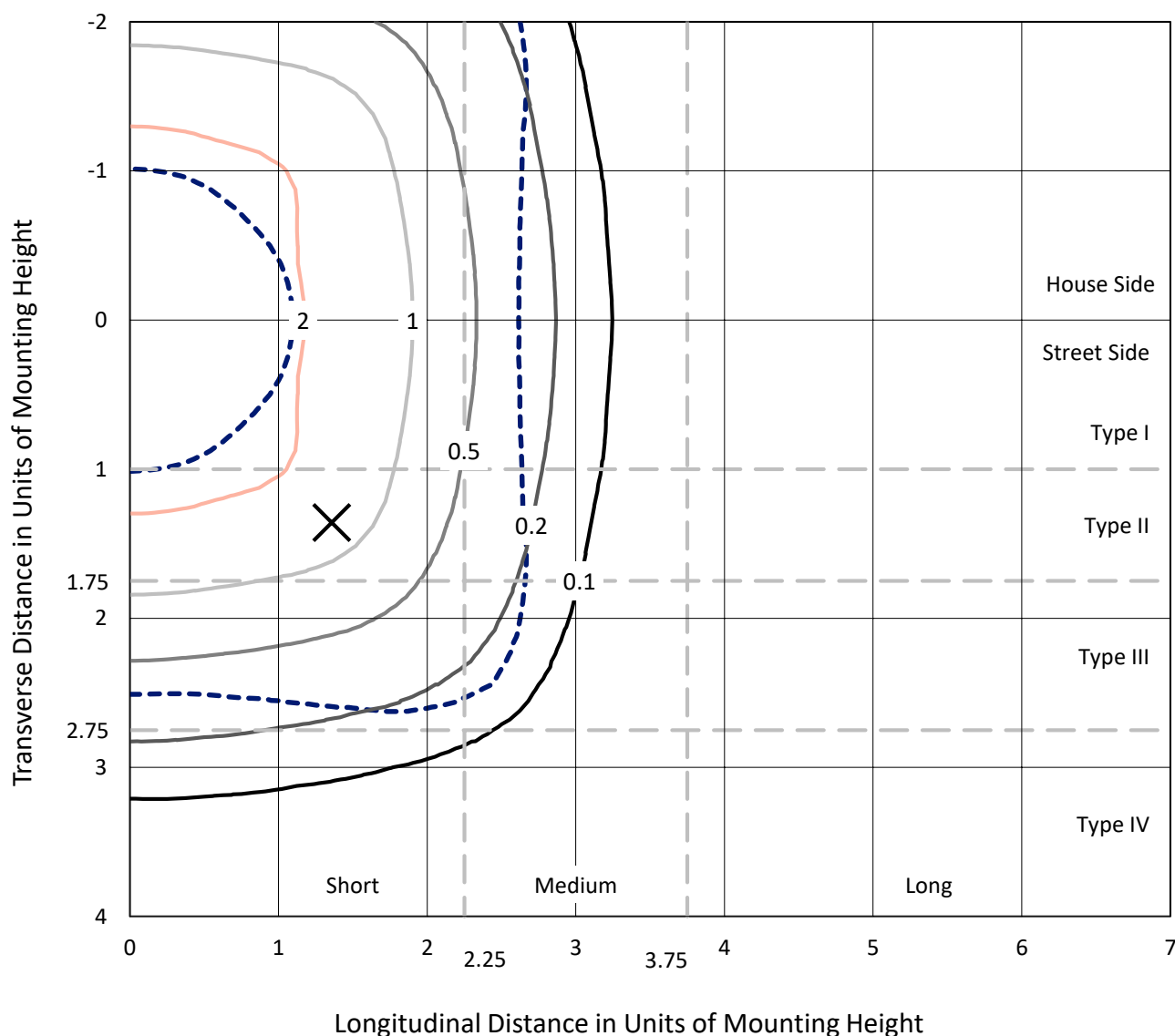


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

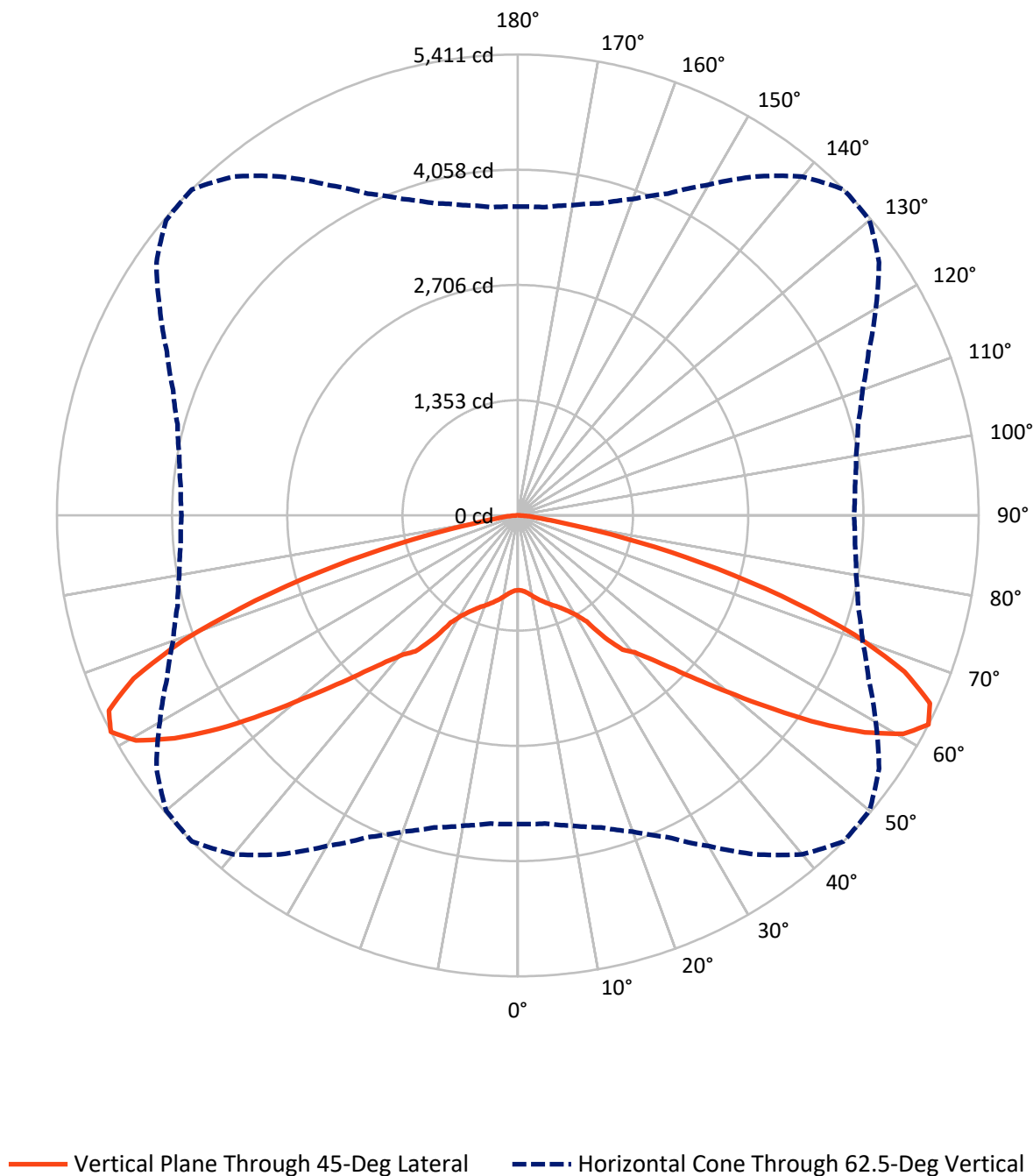


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6615.9	0.0	6615.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6615.9	0.0	6615.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	13231.7	0.0	13231.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	0.7
10°-20°	297.5	2.2
20°-30°	575.3	4.3
30°-40°	1113.9	8.4
40°-50°	2011.3	15.2
50°-60°	3497.3	26.4
60°-70°	3970.3	30.0
70°-80°	1539.3	11.6
80°-90°	138.9	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°	13231.7	100.0
0°-180°	13231.7	100.0

Coefficient of Utilization



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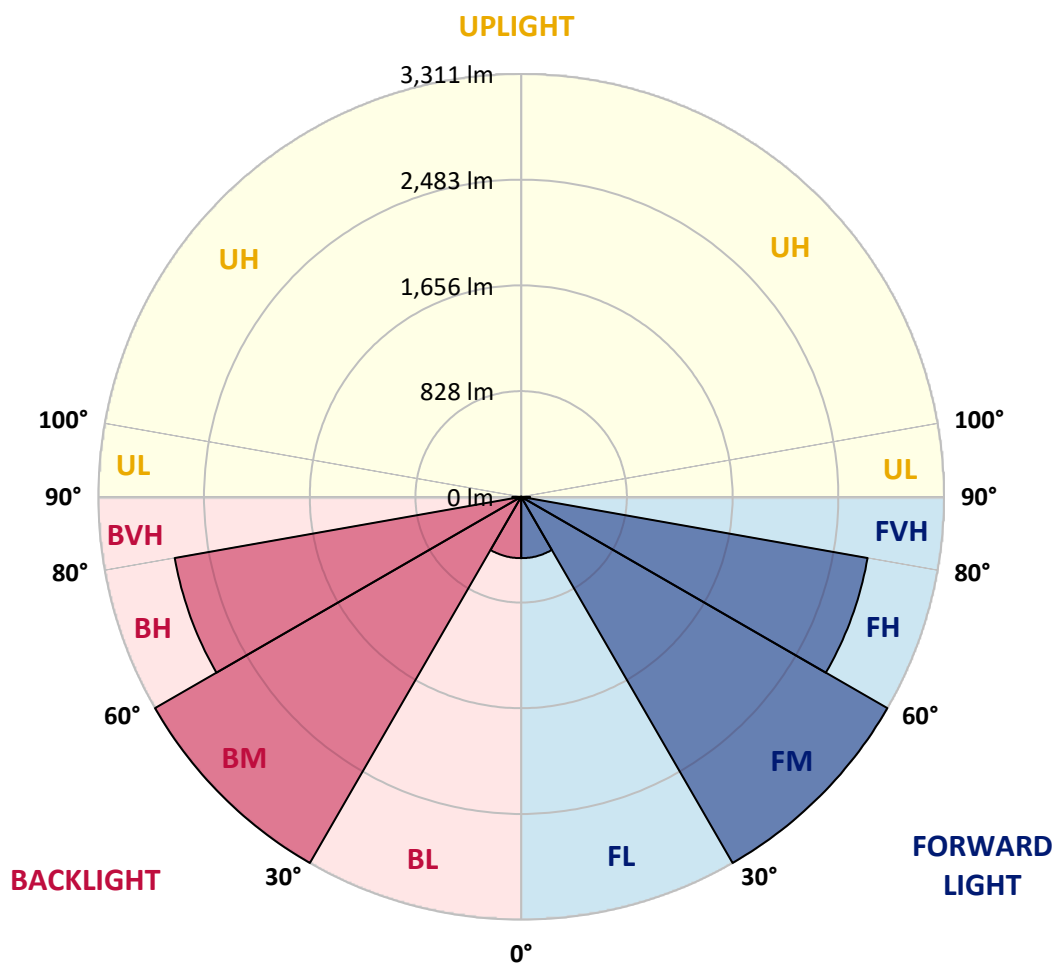
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	480.4	3.6			
FM	(30°-60°)	3311.2	25.0			
FH	(60°-80°)	2754.8	20.8			G2/5000
FVH	(80°-90°)	69.4	0.5			G1/100
BL	(0°-30°)	480.4	3.6	B1/500		
BM	(30°-60°)	3311.2	25.0	B3/5000		
BH	(60°-80°)	2754.8	20.8	B4/5000		G2/5000
BVH	(80°-90°)	69.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3
2.5°	883.7	886.6	885.9	884.6	884.6	884.6	883.8	881.8	881.0	882.5	883.8
5°	904.4	904.4	904.4	904.4	903.0	903.0	901.6	900.3	900.9	899.6	898.9
7.5°	935.8	933.8	933.8	933.1	933.1	931.7	929.6	926.8	927.7	926.8	926.2
10°	972.7	973.5	971.4	973.5	969.9	969.3	966.6	965.2	964.6	962.5	962.5
12.5°	1017.2	1015.1	1015.1	1013.8	1012.4	1011.1	1006.9	1006.2	1003.5	1002.2	1000.1
15°	1058.9	1058.2	1055.5	1052.8	1052.0	1050.8	1045.9	1043.2	1042.5	1039.2	1036.4
17.5°	1100.7	1099.3	1096.0	1094.5	1091.8	1089.7	1085.6	1081.6	1079.5	1078.1	1074.7
20°	1145.1	1143.8	1140.3	1137.6	1134.2	1131.4	1125.3	1121.9	1119.8	1117.7	1115.0
22.5°	1200.6	1197.8	1192.3	1187.6	1180.1	1177.3	1169.1	1164.2	1160.8	1158.1	1156.8
25°	1260.7	1261.3	1253.9	1247.8	1238.8	1231.3	1221.1	1215.6	1212.2	1209.4	1208.7
27.5°	1336.0	1336.7	1329.8	1320.9	1307.3	1299.1	1285.4	1278.5	1276.5	1273.8	1273.1
30°	1455.0	1448.9	1437.2	1422.9	1410.6	1392.7	1373.0	1366.0	1359.3	1357.2	1357.2
32.5°	1674.0	1670.6	1660.9	1625.4	1608.9	1572.0	1537.1	1517.3	1494.7	1483.7	1476.9
35°	1827.2	1825.8	1818.2	1805.9	1795.6	1788.2	1767.7	1764.1	1760.1	1760.2	1765.6
37.5°	1940.0	1931.8	1930.4	1932.4	1929.7	1931.2	1947.6	1970.2	1989.2	1998.9	1997.5
40°	2106.9	2095.3	2102.2	2097.4	2091.2	2089.8	2095.3	2104.2	2113.2	2113.2	2111.1
42.5°	2325.2	2330.6	2333.4	2313.6	2300.5	2297.1	2310.1	2307.4	2316.3	2312.8	2303.9
45°	2649.4	2646.0	2641.2	2617.2	2596.7	2580.3	2583.7	2579.0	2579.7	2574.1	2567.3
47.5°	2976.4	2988.0	2968.2	2956.6	2933.3	2921.7	2931.2	2923.0	2938.9	2910.1	2896.4
50°	3293.8	3302.0	3295.1	3278.8	3278.8	3295.2	3306.7	3321.9	3343.7	3310.9	3261.7
52.5°	3553.8	3560.6	3570.8	3584.6	3618.0	3653.0	3702.2	3754.8	3796.6	3790.5	3734.3
55°	3712.4	3720.6	3737.8	3785.0	3845.2	3936.8	4048.3	4170.8	4266.5	4313.1	4272.0
57.5°	3765.8	3772.0	3818.4	3875.2	3968.9	4105.1	4291.8	4503.2	4687.3	4804.2	4785.7
60°	3753.6	3753.5	3800.6	3878.7	4009.9	4190.7	4454.7	4747.4	5029.2	5204.4	5178.4
62.5°	3624.2	3631.1	3698.8	3792.5	3951.2	4167.4	4482.1	4856.2	5193.5	5411.0	5389.8
65°	3341.0	3345.8	3419.1	3530.5	3707.7	3963.5	4307.6	4722.1	5108.6	5317.9	5278.3
67.5°	2883.3	2888.1	2947.7	3073.6	3260.9	3528.4	3899.9	4356.2	4734.5	4899.9	4780.9
70°	2293.7	2307.4	2345.7	2479.1	2621.3	2883.4	3225.4	3681.7	4038.8	4195.4	4064.0
72.5°	1563.1	1597.9	1644.6	1762.9	1899.0	2116.6	2388.8	2773.3	3059.9	3241.1	3124.1
75°	880.4	929.6	944.0	1033.6	1145.8	1317.5	1516.6	1792.3	2081.7	2228.6	2087.8
77.5°	380.4	420.6	438.5	480.2	567.8	639.6	760.7	946.7	1170.5	1273.8	1104.8
80°	187.5	197.0	204.6	217.5	242.1	265.4	322.9	404.2	496.0	519.2	413.2
82.5°	145.1	151.9	164.9	175.1	181.2	187.5	193.0	203.8	212.7	217.6	205.2
85°	102.0	110.9	125.2	136.8	143.6	148.4	153.3	156.6	148.4	135.4	142.4
87.5°	26.7	34.9	48.6	52.7	59.5	62.9	61.6	63.6	57.4	41.7	46.5
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°	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3
2.5°	883.1	882.5	883.1	883.1	883.1	882.5	882.5	882.5
5°	898.9	898.9	899.6	898.2	898.2	898.9	898.2	897.5
7.5°	925.6	924.9	924.9	924.1	924.9	924.1	924.1	923.5
10°	961.1	959.8	960.4	958.3	958.3	957.7	957.7	957.7
12.5°	999.4	997.3	998.1	996.1	992.5	993.3	994.0	993.3
15°	1036.4	1034.4	1032.2	1030.9	1028.8	1029.4	1029.5	1028.8
17.5°	1074.0	1069.8	1069.2	1067.2	1066.5	1066.5	1066.5	1067.2
20°	1113.1	1110.3	1109.6	1107.6	1106.8	1108.9	1109.5	1108.2
22.5°	1154.7	1153.3	1154.7	1153.4	1155.3	1156.8	1157.5	1156.1
25°	1207.5	1206.0	1208.1	1212.8	1215.5	1217.0	1220.3	1219.0
27.5°	1275.0	1273.8	1278.5	1285.4	1289.5	1296.3	1299.7	1301.1
30°	1362.6	1368.8	1371.6	1385.3	1388.0	1398.9	1399.0	1403.7
32.5°	1489.9	1501.6	1522.1	1543.2	1572.6	1593.9	1593.9	1604.9
35°	1769.0	1773.8	1789.5	1793.0	1799.1	1806.0	1799.2	1804.6
37.5°	1983.1	1961.9	1946.9	1925.6	1912.7	1912.6	1914.0	1912.6
40°	2092.5	2084.4	2077.5	2059.7	2057.0	2056.4	2056.4	2059.1
42.5°	2288.2	2268.4	2257.4	2242.4	2237.6	2236.3	2235.5	2236.9
45°	2542.7	2510.6	2481.1	2466.1	2453.1	2440.8	2444.9	2444.9
47.5°	2838.9	2788.9	2741.0	2715.0	2692.4	2682.3	2675.4	2673.4
50°	3199.4	3129.6	3068.0	3019.5	2986.6	2985.9	2989.4	2967.5
52.5°	3641.2	3531.2	3454.5	3388.9	3358.0	3354.6	3343.7	3331.4
55°	4131.2	4000.4	3873.9	3803.4	3763.1	3741.1	3728.2	3707.7
57.5°	4636.0	4460.1	4278.1	4165.4	4094.1	4045.0	4018.9	4007.3
60°	5025.2	4785.1	4545.0	4363.7	4245.4	4172.2	4127.0	4108.5
62.5°	5178.4	4852.8	4545.0	4306.9	4135.9	4034.6	3973.8	3947.0
65°	4995.8	4609.9	4259.7	3997.0	3806.2	3693.3	3626.9	3598.2
67.5°	4485.4	4144.9	3763.7	3502.4	3306.1	3194.6	3122.8	3101.6
70°	3760.4	3412.1	3048.3	2814.9	2639.8	2548.8	2474.3	2465.4
72.5°	2825.9	2525.6	2213.7	2020.7	1879.8	1729.3	1691.0	1710.2
75°	1811.4	1530.3	1252.5	1078.8	950.2	806.4	751.1	764.8
77.5°	857.8	664.2	479.6	370.8	311.3	266.1	254.5	247.7
80°	318.1	257.8	227.8	216.2	207.9	200.4	195.0	188.8
82.5°	205.9	201.1	194.9	193.0	186.7	177.2	159.4	151.8
85°	153.9	153.9	145.7	146.3	141.6	129.3	112.8	103.9
87.5°	45.2	40.4	36.9	34.2	33.5	30.1	21.9	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)