

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: P193350

Luminaire Tested: **GAN-AF-02-LED-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5MQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10440 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 113
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



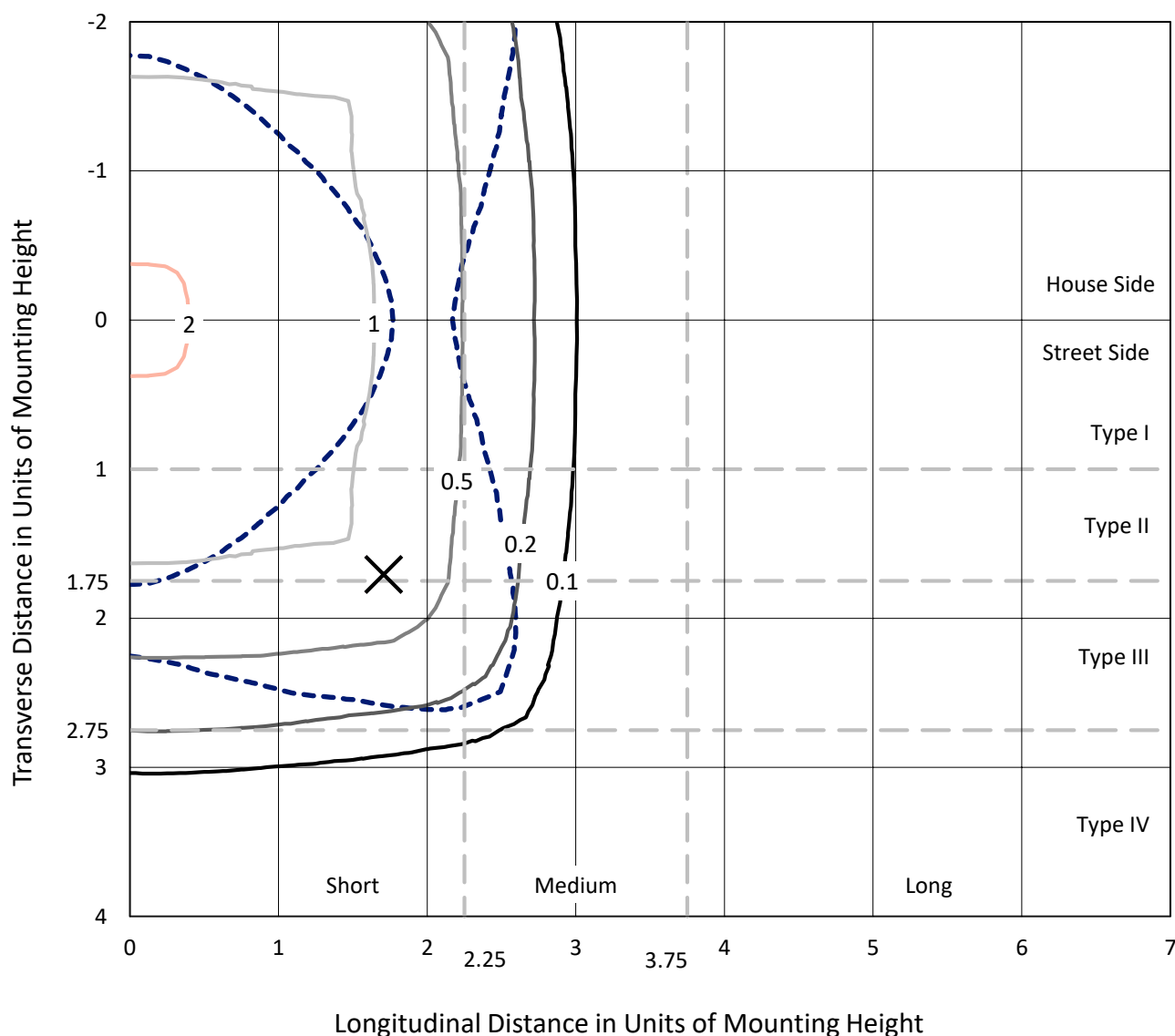
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

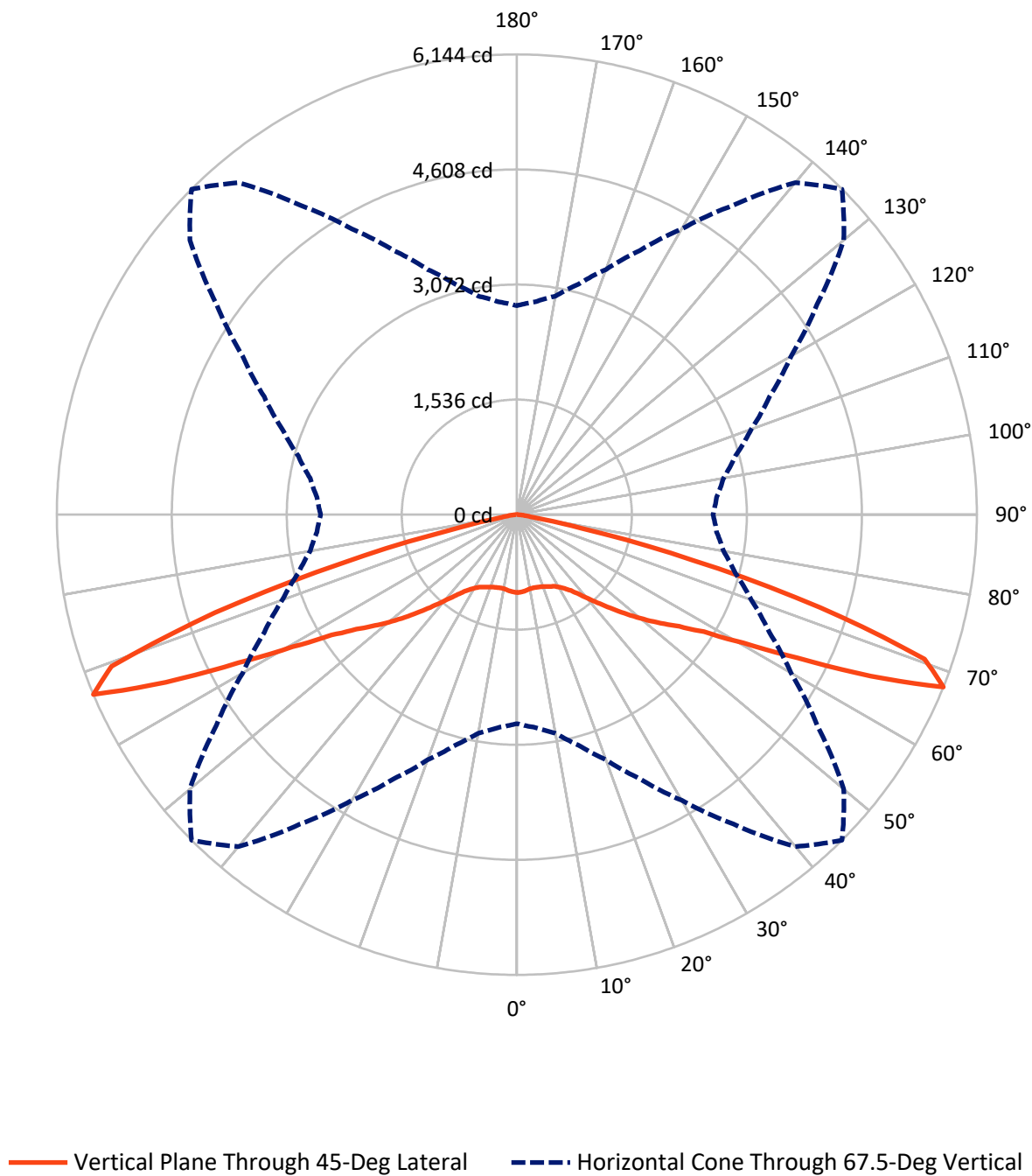


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5220.0	0.0	5220.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5220.0	0.0	5220.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10440.0	0.0	10440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	0.9
10°-20°	282.6	2.7
20°-30°	480.4	4.6
30°-40°	785.2	7.5
40°-50°	1401.8	13.4
50°-60°	2363.5	22.6
60°-70°	3667.7	35.1
70°-80°	1288.7	12.3
80°-90°	72.8	0.7
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°	10440.0	100.0
0°-180°	10440.0	100.0

Coefficient of Utilization



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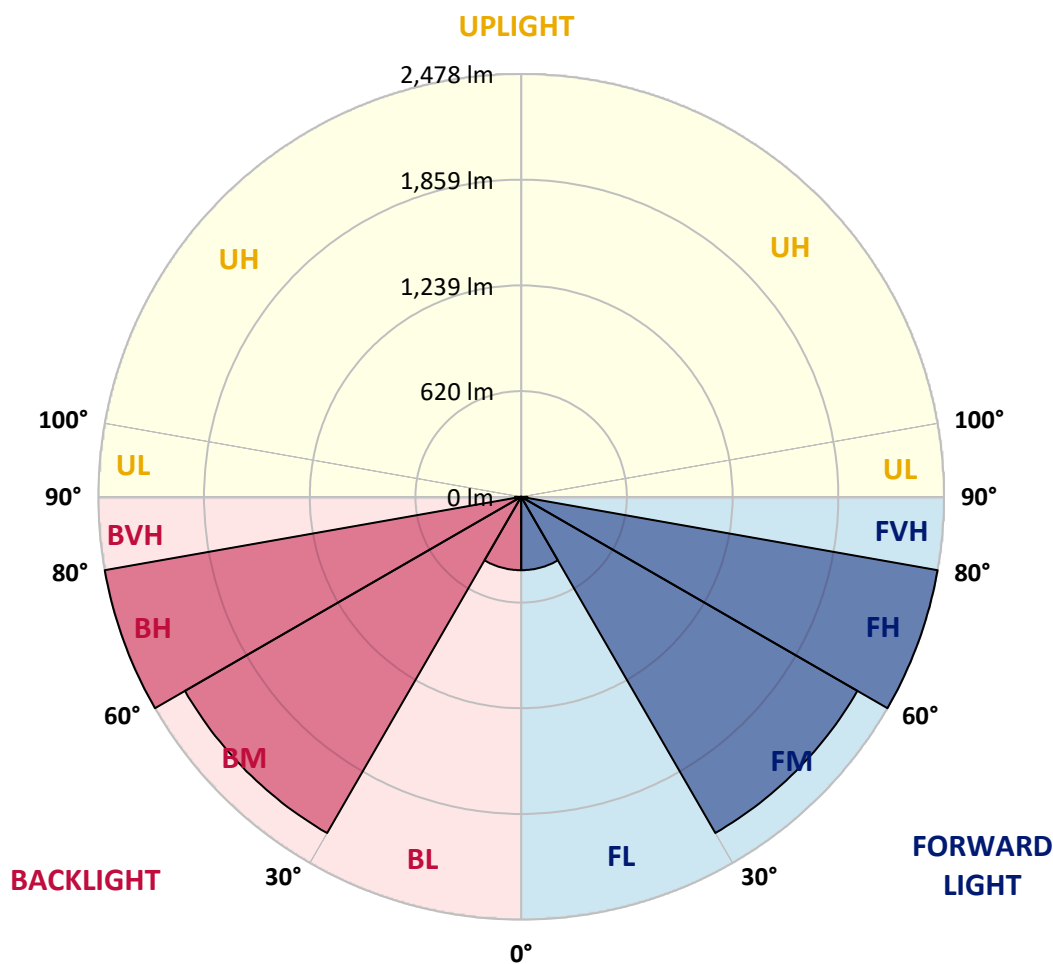
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	430.1	4.1			
FM	(30°-60°)	2275.2	21.8			
FH	(60°-80°)	2478.2	23.7			G2/5000
FVH	(80°-90°)	36.4	0.3			G1/100
BL	(0°-30°)	430.1	4.1	B1/500		
BM	(30°-60°)	2275.2	21.8	B2/2500		
BH	(60°-80°)	2478.2	23.7	B3/2500		G2/5000
BVH	(80°-90°)	36.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4
2.5°	1036.5	1037.5	1037.5	1037.5	1037.0	1037.0	1036.1	1037.0	1036.5	1035.1	1035.6
5°	1027.9	1028.9	1028.9	1028.4	1029.8	1029.3	1027.9	1028.9	1028.4	1027.4	1027.9
7.5°	1015.4	1016.9	1016.9	1016.4	1017.8	1017.3	1016.4	1016.9	1016.9	1015.4	1015.4
10°	1001.5	1002.5	1002.5	1002.0	1004.4	1004.4	1003.9	1005.3	1005.8	1004.4	1003.4
12.5°	988.5	990.0	990.0	991.9	994.3	995.3	997.7	999.6	1001.5	1001.0	999.1
15°	980.9	981.8	983.7	986.1	990.0	993.3	997.2	1001.5	1005.3	1006.3	1003.4
17.5°	976.1	977.5	980.4	983.7	989.0	994.8	1000.5	1006.3	1011.6	1013.5	1010.1
20°	974.6	975.6	978.5	984.2	991.4	1000.1	1008.2	1014.9	1022.1	1024.5	1022.1
22.5°	977.5	979.4	982.8	989.5	999.1	1010.1	1019.7	1028.9	1038.0	1042.3	1038.9
25°	990.5	992.4	996.7	1005.3	1015.9	1027.4	1038.5	1049.0	1057.2	1061.5	1059.1
27.5°	1014.5	1016.9	1022.1	1030.8	1042.3	1054.8	1066.8	1075.4	1082.2	1083.6	1080.7
30°	1050.5	1055.8	1062.0	1071.6	1085.0	1095.6	1107.6	1115.3	1123.4	1123.4	1121.0
32.5°	1106.6	1111.9	1118.6	1127.8	1138.3	1149.9	1160.4	1167.1	1175.8	1176.3	1170.5
35°	1190.7	1193.1	1198.8	1204.6	1214.2	1224.3	1233.4	1237.7	1244.9	1245.4	1240.1
37.5°	1301.6	1302.0	1305.9	1307.8	1316.5	1327.5	1336.1	1339.0	1345.7	1344.8	1339.5
40°	1430.7	1433.1	1434.6	1437.4	1446.6	1457.1	1466.2	1467.7	1474.9	1473.4	1466.7
42.5°	1580.0	1581.0	1589.2	1593.5	1602.1	1607.4	1618.9	1620.4	1629.0	1625.2	1617.5
45°	1747.6	1756.2	1763.9	1772.6	1781.7	1787.9	1797.0	1795.1	1800.9	1795.1	1790.8
47.5°	1923.8	1930.0	1947.3	1960.8	1975.6	1980.9	1993.9	1988.1	1993.9	1985.7	1984.3
50°	2117.7	2128.8	2143.7	2159.0	2174.9	2183.5	2200.3	2193.1	2200.8	2193.1	2188.8
52.5°	2308.8	2311.7	2344.4	2366.9	2389.0	2399.1	2409.2	2405.8	2406.3	2405.8	2401.5
55°	2490.3	2497.0	2529.7	2560.4	2598.8	2627.1	2644.4	2642.5	2638.2	2633.9	2626.7
57.5°	2694.8	2701.6	2739.0	2776.9	2820.6	2861.0	2896.0	2932.0	2945.9	2949.8	2933.9
60°	2971.4	2970.9	3020.8	3066.9	3129.3	3189.3	3266.2	3344.4	3434.2	3476.0	3420.8
62.5°	3252.7	3264.2	3336.3	3417.9	3546.5	3671.9	3813.5	3952.7	4094.8	4210.5	4087.6
65°	3219.1	3263.3	3370.3	3555.2	3792.8	4075.1	4380.5	4703.6	4995.5	5196.2	4971.0
67.5°	2789.9	2852.8	2961.8	3186.5	3483.7	3890.8	4403.5	5042.6	5785.3	6144.4	5699.3
70°	2022.2	2093.3	2207.5	2426.9	2721.2	3108.2	3665.1	4432.3	5415.6	5777.6	5287.4
72.5°	1006.3	1044.7	1115.3	1255.0	1477.8	1791.8	2296.8	3034.3	3904.2	4236.5	3788.5
75°	341.8	359.6	371.6	417.2	487.8	611.2	862.3	1326.5	2023.6	2426.0	1994.8
77.5°	197.3	197.8	206.0	214.1	226.1	239.6	273.2	358.6	620.3	881.0	641.9
80°	127.7	127.2	133.9	140.2	148.4	155.1	157.0	166.1	191.6	227.1	203.1
82.5°	66.3	74.4	89.3	97.5	112.8	115.7	111.9	108.5	114.7	119.1	121.9
85°	36.5	31.7	47.5	61.5	68.2	69.1	69.1	65.3	67.7	66.3	72.0
87.5°	16.8	15.4	18.7	30.2	32.2	27.4	28.8	25.4	18.2	17.8	20.2
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°	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4	1040.4
2.5°	1035.6	1036.1	1036.1	1037.5	1038.0	1038.9	1039.9	1040.4
5°	1027.4	1028.9	1027.9	1029.3	1029.3	1030.3	1030.3	1030.8
7.5°	1015.4	1016.9	1016.9	1016.9	1016.4	1017.8	1017.8	1017.8
10°	1002.9	1003.9	1003.4	1002.5	1001.5	1002.9	1002.5	1002.0
12.5°	999.1	996.7	994.8	993.8	991.9	992.4	990.9	990.9
15°	1001.5	997.2	993.8	992.4	990.5	989.5	988.5	989.0
17.5°	1007.7	1002.5	998.1	995.7	993.3	991.9	990.0	990.5
20°	1018.8	1012.5	1006.3	1001.5	997.2	994.8	993.3	992.9
22.5°	1035.1	1026.0	1016.9	1009.7	1003.9	1000.5	999.1	998.1
25°	1053.8	1043.8	1033.2	1025.0	1019.3	1014.9	1012.1	1012.1
27.5°	1077.4	1069.2	1059.6	1050.0	1044.7	1040.4	1038.5	1037.5
30°	1116.7	1109.0	1101.4	1092.2	1085.5	1081.2	1077.8	1075.0
32.5°	1167.1	1160.9	1154.7	1147.9	1141.7	1135.9	1130.6	1128.2
35°	1238.2	1233.4	1229.1	1221.4	1219.0	1215.6	1212.7	1210.3
37.5°	1336.1	1334.2	1334.2	1326.1	1324.1	1322.7	1319.8	1320.3
40°	1464.8	1466.7	1464.3	1461.4	1460.0	1456.2	1456.2	1459.5
42.5°	1617.0	1618.4	1623.7	1618.9	1624.2	1619.4	1616.5	1618.9
45°	1793.7	1799.0	1809.5	1804.7	1808.1	1799.9	1789.8	1790.3
47.5°	1992.0	1996.8	2001.1	1997.7	1998.2	1984.8	1971.3	1968.0
50°	2197.9	2199.8	2202.2	2197.4	2198.4	2183.5	2168.2	2168.6
52.5°	2401.5	2410.6	2420.2	2407.3	2404.4	2387.6	2366.0	2357.3
55°	2634.3	2647.3	2636.3	2613.7	2591.1	2568.6	2540.2	2535.4
57.5°	2921.4	2899.4	2864.8	2822.1	2790.9	2759.2	2730.4	2718.4
60°	3320.9	3237.8	3175.4	3112.0	3072.2	3033.3	2995.4	2989.6
62.5°	3885.5	3741.9	3617.6	3486.5	3379.5	3295.9	3229.2	3210.5
65°	4593.2	4253.7	3959.4	3684.8	3446.2	3266.2	3152.9	3102.9
67.5°	4897.6	4227.3	3722.7	3332.9	3020.8	2802.9	2680.4	2619.5
70°	4303.7	3505.7	2957.0	2566.6	2282.4	2050.1	1939.1	1873.9
72.5°	2960.8	2230.1	1763.4	1439.4	1212.3	1017.8	941.0	935.2
75°	1329.4	880.5	606.9	467.6	393.7	342.3	326.5	314.5
77.5°	372.1	275.1	245.3	229.5	214.1	196.4	189.6	191.1
80°	181.0	170.9	164.2	154.1	140.2	125.3	118.6	121.5
82.5°	120.0	118.6	122.9	115.7	95.5	81.1	68.2	62.4
85°	73.0	73.9	75.4	75.9	64.3	45.1	30.7	34.6
87.5°	28.8	33.1	36.0	37.4	35.0	21.6	17.3	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)