

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: P192540

Luminaire Tested: **GAN-AF-02-LED-U-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192540
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9997.2 lumens
Efficiency: N/A
Efficacy: 117.6 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

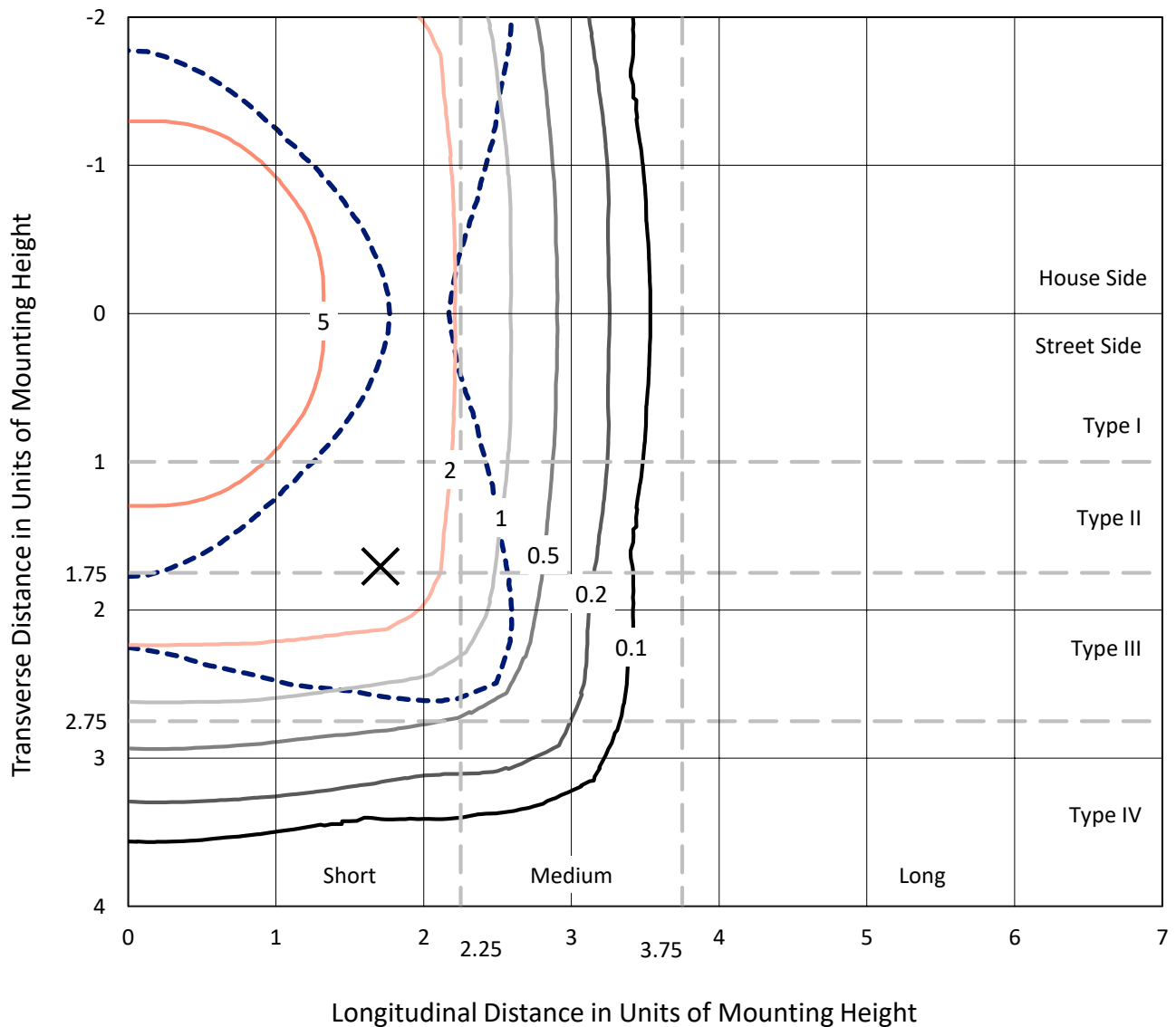
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

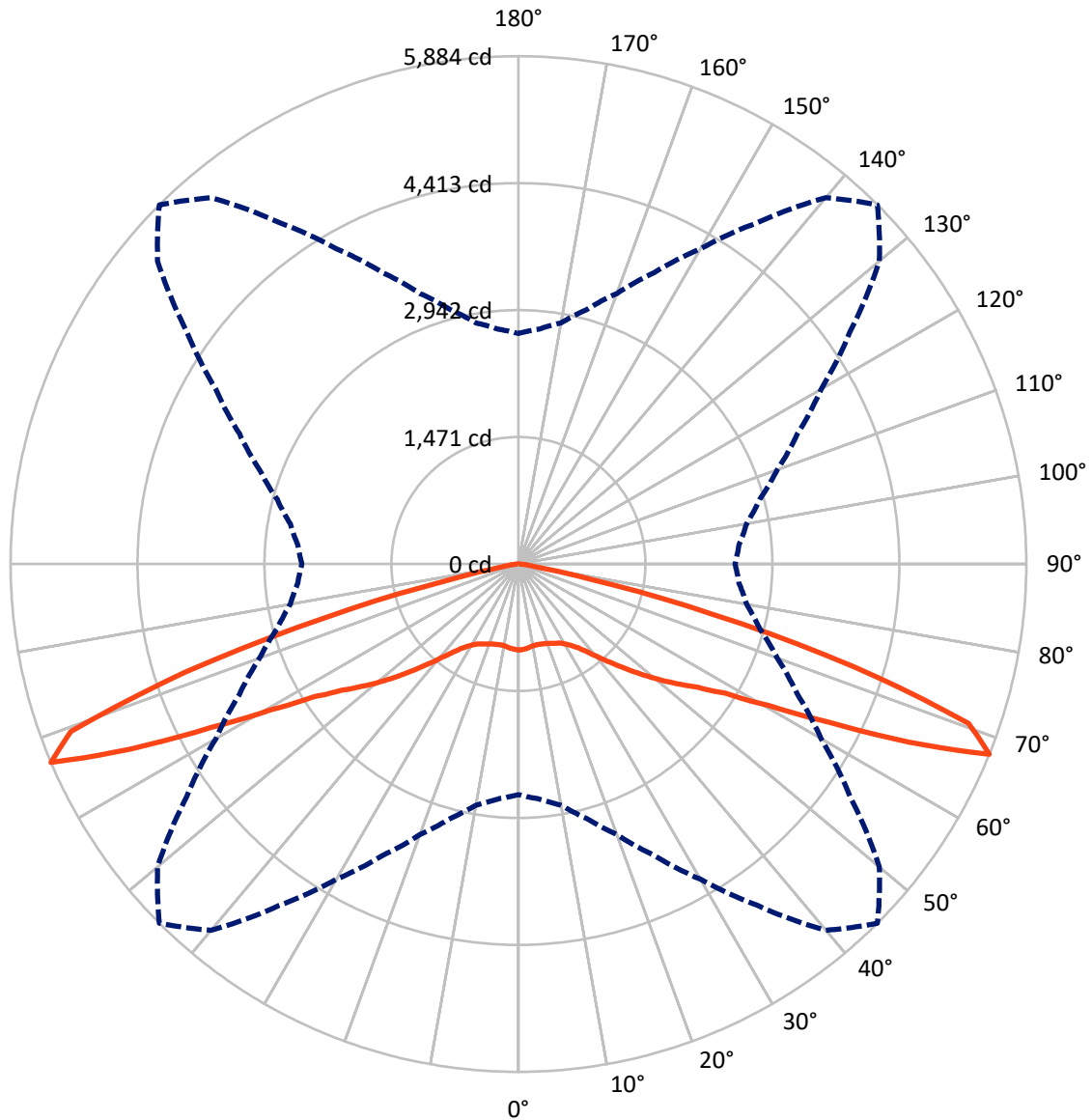


Based on 10 foot mounting height. Maximum calculated value = 10 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4998.6	0.0	4998.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4998.6	0.0	4998.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	9997.2	0.0	9997.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	0.9
10°-20°	270.6	2.7
20°-30°	460.0	4.6
30°-40°	751.9	7.5
40°-50°	1342.3	13.4
50°-60°	2263.2	22.6
60°-70°	3512.2	35.1
70°-80°	1234.0	12.3
80°-90°	69.7	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°	9997.2	100.0
0°-180°	9997.2	100.0



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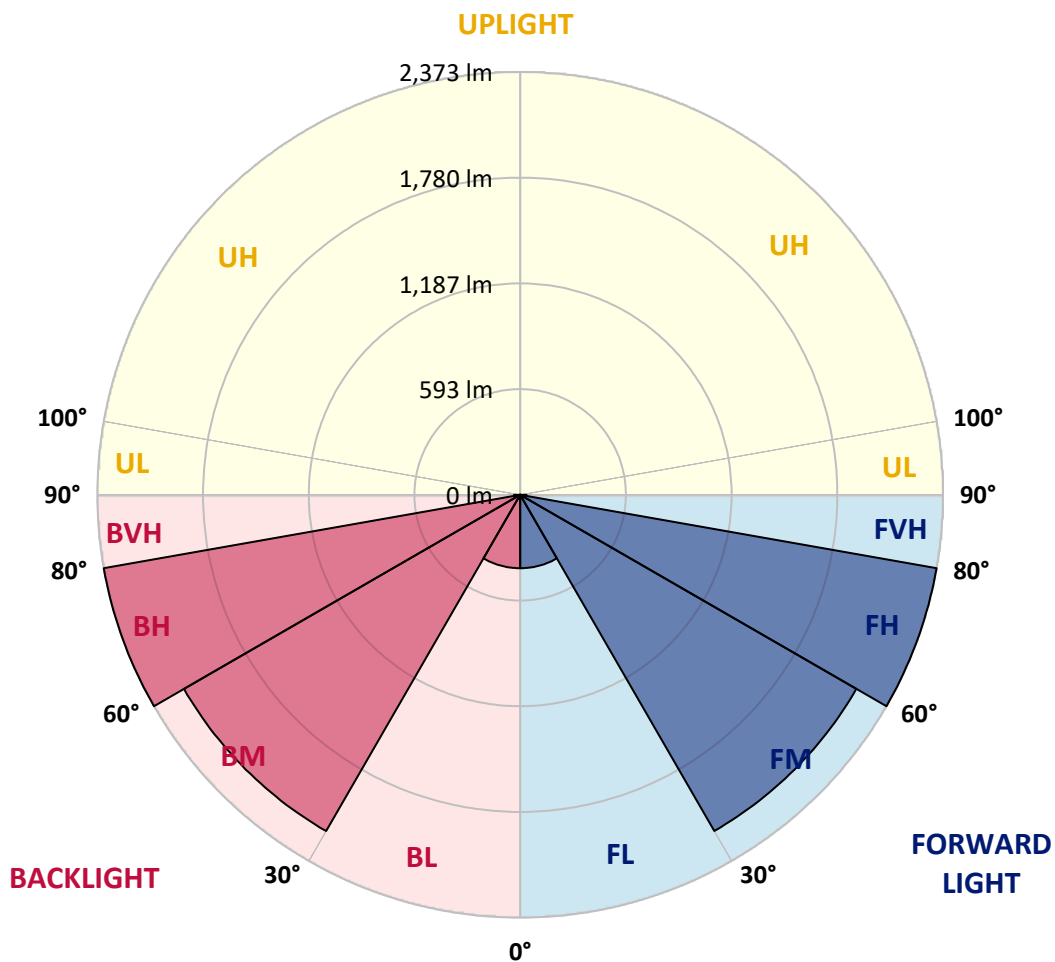
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.9	4.1			
FM	(30°-60°)	2178.7	21.8			
FH	(60°-80°)	2373.1	23.7			G2/5000
FVH	(80°-90°)	34.9	0.3			G1/100
BL	(0°-30°)	411.9	4.1	B1/500		
BM	(30°-60°)	2178.7	21.8	B2/2500		
BH	(60°-80°)	2373.1	23.7	B3/2500		G2/5000
BVH	(80°-90°)	34.9	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°	996.2	996.2	996.2	996.2	996.2	996.2	996.2	996.2	996.2	996.2	996.2
2.5°	992.6	993.5	993.5	993.5	993.0	993.0	992.1	993.0	992.6	991.2	991.6
5°	984.3	985.2	985.2	984.8	986.2	985.7	984.3	985.2	984.8	983.9	984.3
7.5°	972.4	973.7	973.7	973.3	974.7	974.1	973.3	973.7	973.7	972.4	972.4
10°	959.1	960.0	960.0	959.6	961.8	961.8	961.4	962.7	963.1	961.8	960.8
12.5°	946.6	948.1	948.1	949.8	952.0	953.1	955.4	957.2	959.1	958.5	956.7
15°	939.3	940.1	942.1	944.3	948.1	951.2	954.9	959.1	962.7	963.6	960.8
17.5°	934.7	936.1	938.7	942.1	947.1	952.6	958.1	963.6	968.7	970.6	967.3
20°	933.3	934.1	937.0	942.5	949.4	957.6	965.5	971.9	978.8	981.1	978.8
22.5°	936.1	937.9	941.0	947.5	956.7	967.3	976.4	985.2	993.9	998.1	995.0
25°	948.5	950.3	954.4	962.7	972.9	983.9	994.5	1004.5	1012.4	1016.5	1014.2
27.5°	971.5	973.7	978.8	987.0	998.1	1010.1	1021.6	1029.9	1036.3	1037.6	1034.9
30°	1006.0	1010.9	1016.9	1026.2	1039.0	1049.1	1060.6	1068.0	1075.7	1075.7	1073.5
32.5°	1059.7	1064.7	1071.2	1079.9	1090.1	1101.2	1111.1	1117.6	1125.9	1126.4	1120.9
35°	1140.1	1142.5	1148.0	1153.4	1162.7	1172.4	1181.1	1185.3	1192.1	1192.6	1187.5
37.5°	1246.3	1246.8	1250.5	1252.3	1260.7	1271.2	1279.4	1282.2	1288.7	1287.7	1282.7
40°	1370.0	1372.3	1373.7	1376.4	1385.2	1395.4	1404.1	1405.4	1412.2	1411.0	1404.5
42.5°	1513.0	1513.9	1521.8	1526.0	1534.2	1539.3	1550.3	1551.6	1559.9	1556.2	1548.9
45°	1673.5	1681.7	1689.1	1697.4	1706.1	1712.1	1720.9	1718.9	1724.5	1718.9	1714.9
47.5°	1842.2	1848.1	1864.7	1877.6	1891.9	1896.8	1909.3	1903.9	1909.3	1901.5	1900.1
50°	2028.0	2038.6	2052.8	2067.5	2082.6	2090.9	2106.9	2100.1	2107.5	2100.1	2095.9
52.5°	2210.9	2213.7	2245.0	2266.6	2287.7	2297.4	2307.0	2303.7	2304.3	2303.7	2299.7
55°	2384.7	2391.1	2422.4	2451.8	2488.6	2515.7	2532.3	2530.5	2526.3	2522.1	2515.2
57.5°	2580.6	2586.9	2622.9	2659.2	2701.0	2739.5	2773.2	2807.6	2821.0	2824.7	2809.5
60°	2845.3	2844.9	2892.7	2936.9	2996.7	3054.2	3127.6	3202.6	3288.6	3328.6	3275.7
62.5°	3114.8	3125.8	3194.7	3273.0	3396.1	3516.1	3651.8	3785.1	3921.2	4032.0	3914.2
65°	3082.5	3125.0	3227.4	3404.4	3632.0	3902.3	4194.7	4504.1	4783.6	4975.7	4760.2
67.5°	2671.6	2731.8	2836.2	3051.3	3335.9	3725.7	4216.8	4828.7	5539.9	5883.8	5457.6
70°	1936.4	2004.5	2113.9	2324.1	2605.9	2976.3	3509.7	4244.4	5185.9	5532.6	5063.2
72.5°	963.6	1000.4	1068.0	1201.8	1415.1	1715.8	2199.4	2905.5	3738.7	4056.8	3627.9
75°	327.3	344.3	355.8	399.6	467.1	585.3	825.7	1270.2	1937.8	2323.1	1910.3
77.5°	188.9	189.4	197.2	205.1	216.6	229.5	261.5	343.4	594.1	843.6	614.7
80°	122.3	121.9	128.3	134.3	142.0	148.5	150.3	159.1	183.4	217.4	194.5
82.5°	63.5	71.2	85.5	93.3	108.0	110.8	107.1	103.9	110.0	114.0	116.8
85°	35.0	30.4	45.6	58.9	65.3	66.2	66.2	62.5	64.8	63.5	69.0
87.5°	16.1	14.7	17.9	29.0	30.8	26.2	27.6	24.4	17.5	17.1	19.3
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°	996.2	996.2	996.2	996.2	996.2	996.2	996.2	996.2
2.5°	991.6	992.1	992.1	993.5	993.9	995.0	995.8	996.2
5°	983.9	985.2	984.3	985.7	985.7	986.6	986.6	987.0
7.5°	972.4	973.7	973.7	973.7	973.3	974.7	974.7	974.7
10°	960.4	961.4	960.8	960.0	959.1	960.4	960.0	959.6
12.5°	956.7	954.4	952.6	951.6	949.8	950.3	948.9	948.9
15°	959.1	954.9	951.6	950.3	948.5	947.5	946.6	947.1
17.5°	965.0	960.0	955.8	953.5	951.2	949.8	948.1	948.5
20°	975.5	969.5	963.6	959.1	954.9	952.6	951.2	950.8
22.5°	991.2	982.5	973.7	966.8	961.4	958.1	956.7	955.8
25°	1009.1	999.5	989.4	981.5	976.0	971.9	969.1	969.1
27.5°	1031.6	1023.9	1014.7	1005.5	1000.4	996.2	994.5	993.5
30°	1069.3	1062.0	1054.7	1045.9	1039.5	1035.3	1032.2	1029.3
32.5°	1117.6	1111.7	1105.7	1099.2	1093.2	1087.7	1082.6	1080.3
35°	1185.7	1181.1	1176.9	1169.6	1167.3	1164.0	1161.3	1159.0
37.5°	1279.4	1277.7	1277.7	1269.8	1268.0	1266.7	1263.8	1264.3
40°	1402.7	1404.5	1402.3	1399.5	1398.1	1394.3	1394.3	1397.7
42.5°	1548.4	1549.9	1554.9	1550.3	1555.3	1550.7	1547.9	1550.3
45°	1717.5	1722.7	1732.8	1728.2	1731.4	1723.6	1714.0	1714.4
47.5°	1907.4	1912.0	1916.2	1913.0	1913.4	1900.6	1887.7	1884.5
50°	2104.7	2106.5	2108.8	2104.3	2105.2	2090.9	2076.3	2076.7
52.5°	2299.7	2308.3	2317.6	2305.2	2302.4	2286.4	2265.6	2257.3
55°	2522.6	2535.1	2524.4	2502.8	2481.3	2459.7	2432.5	2428.0
57.5°	2797.6	2776.4	2743.3	2702.4	2672.5	2642.1	2614.6	2603.1
60°	3180.1	3100.6	3040.8	2980.0	2942.0	2904.6	2868.4	2862.8
62.5°	3720.8	3583.2	3464.2	3338.6	3236.2	3156.2	3092.2	3074.3
65°	4398.3	4073.3	3791.6	3528.5	3300.0	3127.6	3019.2	2971.3
67.5°	4689.9	4048.0	3564.8	3191.6	2892.7	2684.0	2566.7	2508.4
70°	4121.2	3357.1	2831.6	2457.8	2185.6	1963.1	1856.9	1794.4
72.5°	2835.3	2135.5	1688.6	1378.3	1160.9	974.7	901.1	895.6
75°	1273.0	843.2	581.1	447.8	377.0	327.8	312.6	301.1
77.5°	356.3	263.5	234.9	219.7	205.1	188.0	181.6	183.0
80°	173.2	163.7	157.3	147.6	134.3	119.9	113.5	116.4
82.5°	114.9	113.5	117.7	110.8	91.4	77.7	65.3	59.8
85°	69.9	70.8	72.2	72.6	61.6	43.2	29.4	33.1
87.5°	27.6	31.6	34.5	35.8	33.6	20.6	16.5	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)