

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: P299204

Luminaire Tested: **GAA-AF-09-LED-U-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-09-LED-U-T3-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41449.8 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

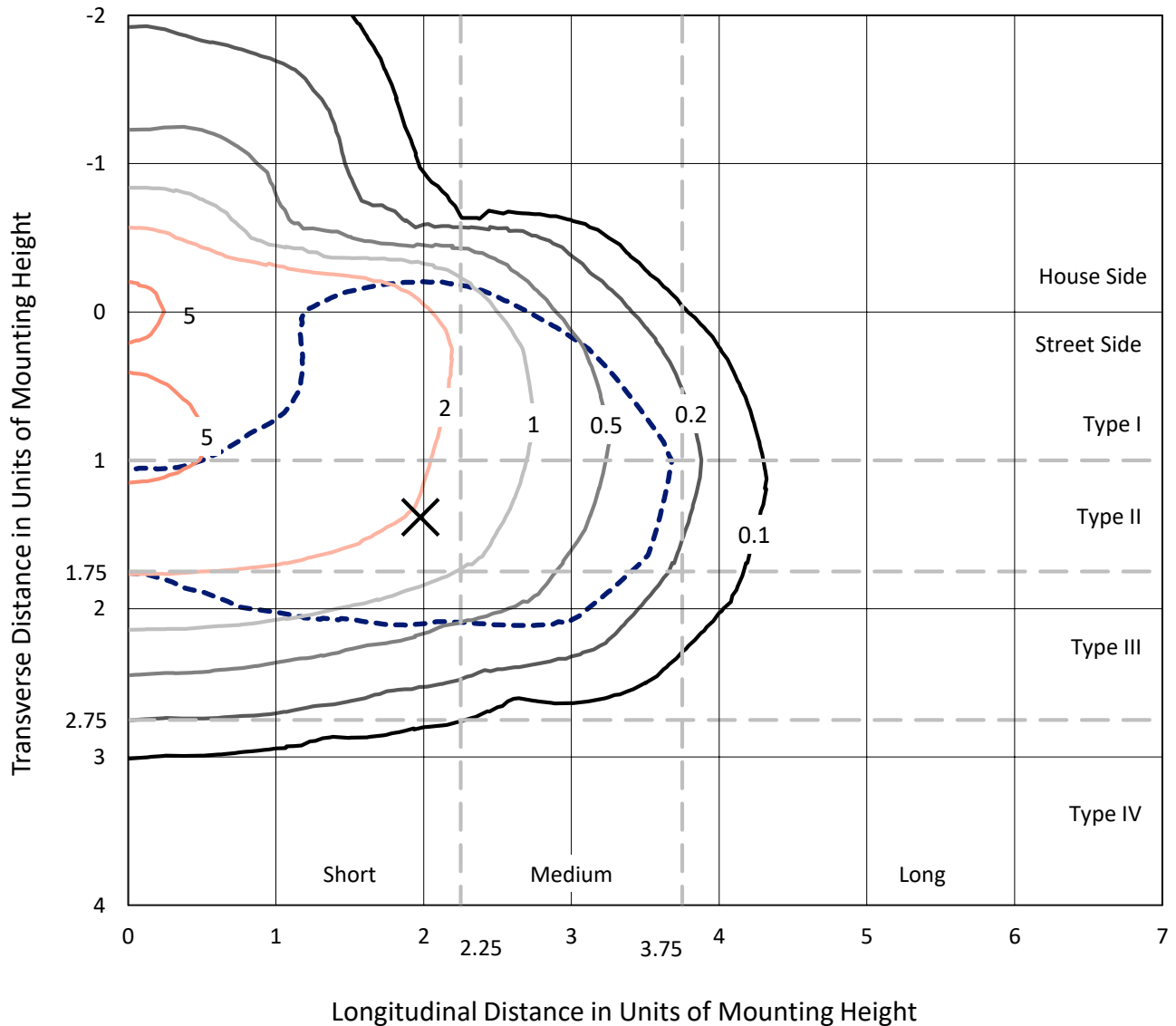
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

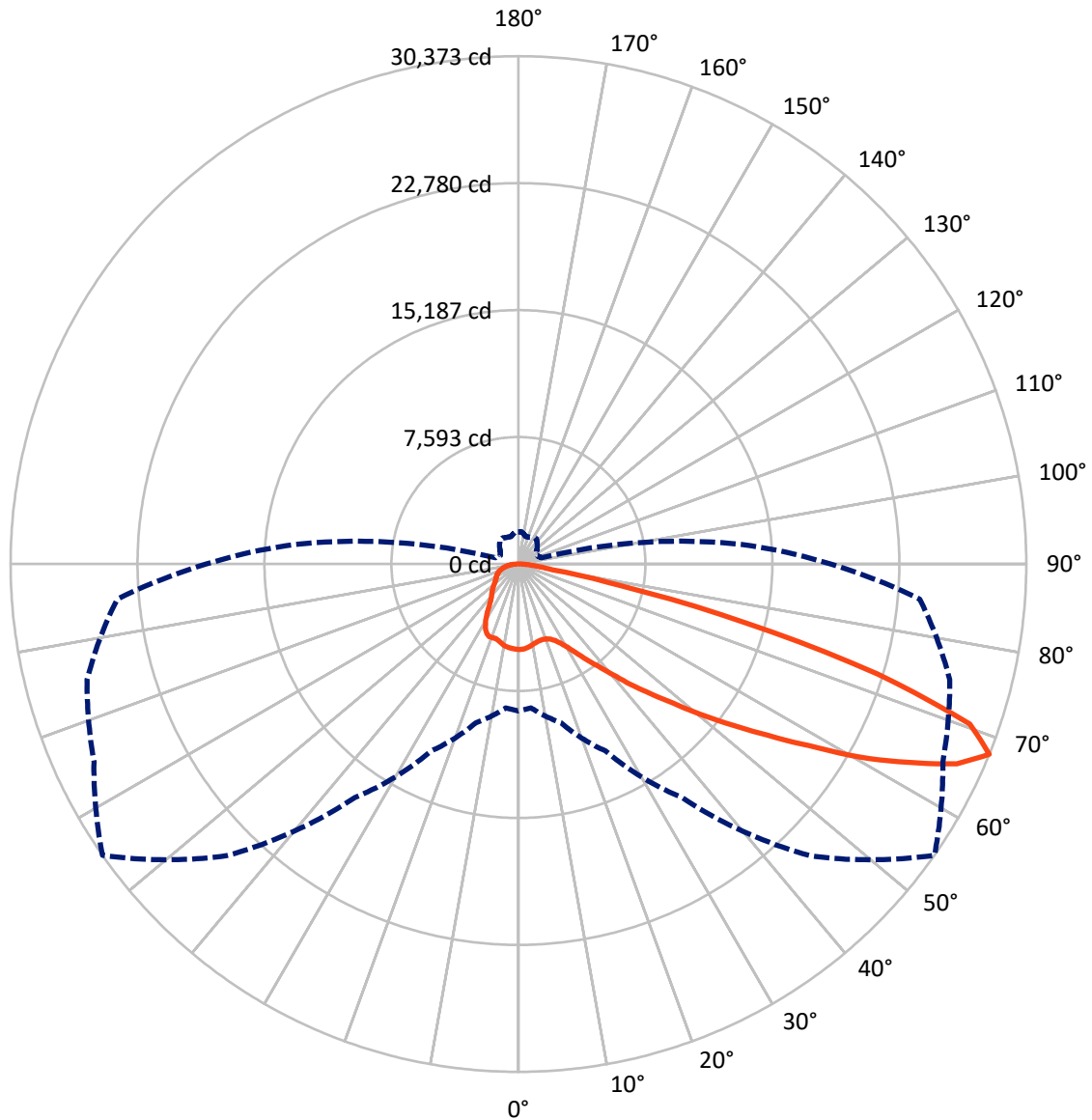
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8954.0	0.0	8954.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	32495.8	0.0	32495.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	41449.8	0.0	41449.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.1	1.2
10°-20°	1351.2	3.3
20°-30°	2263.4	5.5
30°-40°	3721.9	9.0
40°-50°	6265.2	15.1
50°-60°	9860.9	23.8
60°-70°	11767.9	28.4
70°-80°	5053.4	12.2
80°-90°	689.0	1.7
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°	41449.8	100.0
0°-180°	41449.8	100.0

Coefficient of Utilization



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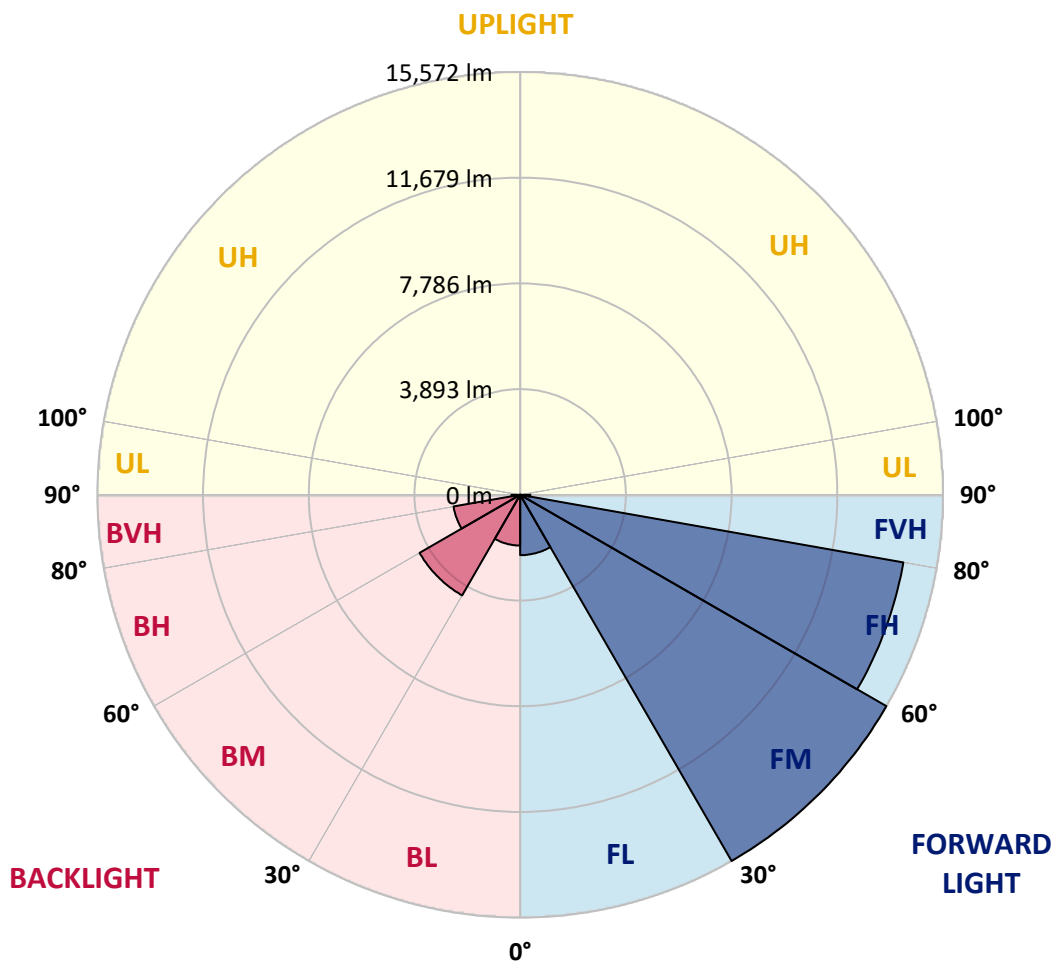
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2221.8	5.4			
FM (30°-60°)	15571.6	37.6			
FH (60°-80°)	14329.4	34.6			G5
FVH (80°-90°)	373.0	0.9			G3/500
BL (0°-30°)	1869.8	4.5	B3/2500		
BM (30°-60°)	4276.4	10.3	B3/5000		
BH (60°-80°)	2491.9	6.0	B3/2500		G3/2500
BVH (80°-90°)	316.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5111.2	5111.2	5111.2	5111.2	5111.2	5111.2	5111.2	5111.2	5111.2	5111.2	5111.2
2.5°	5067.2	5069.2	5073.2	5089.2	5103.2	5099.2	5101.2	5093.2	5091.2	5079.2	5091.2
5°	5003.1	5009.1	5011.1	5037.1	5053.2	5057.2	5051.2	5041.1	5029.1	5017.1	5023.1
7.5°	4857.0	4873.0	4875.0	4911.0	4937.0	4971.1	4973.1	4975.1	4969.1	4961.1	4973.1
10°	4764.9	4768.9	4766.9	4792.9	4812.9	4850.9	4873.0	4911.0	4927.0	4931.0	4939.0
12.5°	4758.9	4754.9	4748.8	4748.8	4742.8	4758.9	4798.9	4853.0	4891.0	4903.0	4913.0
15°	4822.9	4820.9	4800.9	4770.9	4732.8	4720.8	4754.9	4814.9	4865.0	4891.0	4901.0
17.5°	4967.1	4955.1	4923.0	4855.0	4772.9	4740.8	4744.8	4794.9	4853.0	4887.0	4897.0
20°	5231.3	5231.3	5163.3	5035.1	4889.0	4812.9	4776.9	4806.9	4863.0	4909.0	4923.0
22.5°	5687.8	5691.8	5577.7	5367.5	5121.2	4959.1	4869.0	4863.0	4929.0	4981.1	4997.1
25°	6334.5	6318.4	6158.3	5858.0	5483.6	5215.3	5059.2	5023.1	5079.2	5137.2	5157.3
27.5°	7087.2	7029.2	6839.0	6476.6	5992.1	5599.7	5359.5	5301.4	5355.5	5421.5	5441.6
30°	7832.0	7771.9	7545.7	7149.3	6610.7	6114.2	5769.9	5675.8	5751.9	5846.0	5858.0
32.5°	8576.7	8576.7	8324.5	7862.0	7275.4	6728.9	6316.4	6204.3	6330.5	6444.6	6470.6
35°	9467.7	9471.7	9227.4	8670.8	8040.2	7461.6	7007.1	6925.1	7115.3	7195.3	7257.4
37.5°	10562.8	10584.8	10270.5	9597.8	8907.1	8298.5	7757.9	7645.8	7836.0	8054.2	8254.4
40°	11746.0	11774.0	11427.7	10598.8	9908.1	9271.5	8686.9	8484.7	8801.0	9217.4	9475.7
42.5°	12875.1	13019.3	12684.9	11832.1	11089.3	10430.6	9838.0	9543.7	9940.1	10568.8	10793.0
45°	14506.8	14610.9	14028.3	13255.5	12556.8	11820.1	11035.3	10724.9	11279.5	12072.3	12118.4
47.5°	15593.9	15515.8	15219.5	14739.0	14296.6	13607.9	12426.7	12086.3	12823.1	13756.0	13497.8
50°	16172.5	16196.5	16156.5	16184.5	16200.5	15768.1	14132.4	13665.9	14544.8	15672.0	15077.4
52.5°	16713.0	16552.9	16685.0	17341.7	18134.5	17974.3	15988.3	15501.8	16390.7	17798.2	16747.1
55°	16701.0	16456.8	16887.2	18046.4	19766.2	19950.4	18072.4	17511.9	18342.7	20078.5	18516.9
57.5°	16110.4	16122.4	16785.1	18302.7	20903.3	21808.2	20490.9	19650.0	20412.8	22388.8	20132.5
60°	15297.6	15407.7	16362.7	18260.6	21814.3	23331.8	23457.9	21954.4	22440.9	24489.0	21469.9
62.5°	13986.3	14102.4	15419.7	17824.2	21676.1	24799.3	26140.7	24569.1	24561.1	25762.3	21862.3
65°	11918.2	11884.1	13267.5	16192.5	20516.9	25884.4	28805.4	26829.4	26158.7	25782.3	21073.5
67.5°	8789.0	8636.8	9824.0	12332.6	17053.4	24669.2	30373.0	28006.6	26703.2	24086.6	18663.0
70°	4560.7	4408.5	5369.5	7201.3	11215.4	19253.6	28637.2	27397.9	25500.0	20190.6	14620.9
72.5°	1950.0	1924.0	2314.4	3159.2	5425.5	11105.3	22454.9	23714.2	21880.3	15043.3	10052.3
75°	1311.3	1303.3	1449.5	1721.8	2440.5	4506.6	14052.3	16833.2	16008.3	9327.5	5653.8
77.5°	1029.0	1019.0	1105.1	1237.3	1581.6	1777.8	6236.4	9037.2	8364.5	4060.1	2474.5
80°	804.8	796.8	850.9	922.9	1137.2	1121.1	2052.1	3595.7	2782.8	1555.6	1203.2
82.5°	634.6	634.6	678.7	680.7	806.8	764.8	1071.1	1583.6	1389.4	906.9	736.8
85°	580.6	580.6	626.6	508.5	526.5	482.5	664.7	939.0	880.9	372.4	320.3
87.5°	292.3	284.3	526.5	450.5	286.3	256.3	324.3	454.5	488.5	206.2	160.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5111.2	5111.2	5111.2	5111.2	5111.2	5111.2	5111.2	5111.2	5111.2	5111.2
2.5°	5087.2	5085.2	5089.2	5091.2	5107.2	5129.2	5139.2	5153.3	5161.3	5157.3
5°	5027.1	5031.1	5047.1	5059.2	5087.2	5123.2	5143.2	5159.3	5173.3	5167.3
7.5°	4977.1	4987.1	5011.1	5021.1	5037.1	5047.1	5045.1	5051.2	5063.2	5049.2
10°	4949.0	4961.1	4979.1	4965.1	4927.0	4873.0	4822.9	4796.9	4804.9	4794.9
12.5°	4921.0	4937.0	4923.0	4857.0	4750.8	4680.8	4642.7	4646.7	4664.8	4668.8
15°	4905.0	4911.0	4850.9	4726.8	4618.7	4608.7	4628.7	4624.7	4626.7	4626.7
17.5°	4905.0	4889.0	4776.9	4652.7	4606.7	4588.7	4526.6	4448.5	4414.5	4402.5
20°	4931.0	4889.0	4752.8	4670.8	4570.7	4416.5	4252.3	4108.2	4044.1	4026.1
22.5°	5009.1	4937.0	4820.9	4678.8	4394.5	4136.2	3876.0	3703.8	3587.7	3567.6
25°	5167.3	5087.2	4955.1	4572.7	4114.2	3745.8	3449.5	3257.3	3141.2	3125.2
27.5°	5443.6	5391.5	5027.1	4338.4	3741.8	3347.4	3073.1	2925.0	2838.9	2832.9
30°	5860.0	5834.0	4991.1	3992.1	3283.3	2961.0	2828.9	2742.8	2678.7	2676.7
32.5°	6524.7	6314.4	4873.0	3569.6	2864.9	2686.7	2632.7	2580.6	2530.6	2530.6
35°	7379.5	6702.8	4648.7	3117.2	2610.7	2534.6	2466.5	2384.4	2318.4	2314.4
37.5°	8384.6	6943.1	4246.3	2752.8	2490.5	2432.5	2332.4	2210.3	2094.1	2074.1
40°	9399.6	7015.2	3679.8	2528.6	2414.5	2330.4	2208.3	2064.1	1952.0	1946.0
42.5°	10330.5	6877.0	3079.1	2374.4	2338.4	2226.3	2098.1	1970.0	1881.9	1879.9
45°	11111.3	6518.6	2574.6	2228.3	2258.3	2132.2	2018.1	1914.0	1845.9	1831.9
47.5°	11846.1	6012.1	2220.3	2074.1	2178.2	2080.1	1984.0	1885.9	1819.9	1809.8
50°	12699.0	5465.6	1972.0	1924.0	2108.2	2062.1	2012.1	1909.9	1799.8	1787.8
52.5°	13732.0	4993.1	1777.8	1791.8	2054.1	2086.1	2084.1	1978.0	1785.8	1769.8
55°	14885.2	4468.6	1631.7	1683.7	2032.1	2130.2	2102.1	2042.1	1797.8	1773.8
57.5°	16020.3	3855.9	1529.6	1601.6	2000.0	2126.2	2016.1	1930.0	1825.9	1791.8
60°	16871.2	3033.1	1451.5	1529.6	1930.0	2060.1	1922.0	1807.8	1819.9	1793.8
62.5°	16927.3	2344.4	1357.4	1467.5	1823.9	1994.0	1859.9	1753.8	1845.9	1821.9
65°	15932.3	1771.8	1267.3	1393.4	1709.7	1952.0	1799.8	1723.8	1899.9	1873.9
67.5°	13413.7	1425.5	1191.2	1317.3	1595.6	1863.9	1745.8	1695.7	1948.0	1901.9
70°	9683.9	1215.2	1117.1	1225.2	1493.5	1763.8	1697.7	1645.7	1817.9	1745.8
72.5°	5962.1	1053.1	1033.1	1103.1	1415.4	1659.7	1625.7	1551.6	1637.7	1579.6
75°	2977.0	912.9	939.0	983.0	1305.3	1541.6	1505.5	1431.5	1443.5	1431.5
77.5°	1425.5	780.8	828.8	862.9	1163.2	1407.4	1369.4	1293.3	1279.3	1281.3
80°	902.9	652.7	698.7	722.7	1039.1	1251.3	1213.2	1137.2	1297.3	1203.2
82.5°	564.6	530.5	542.6	586.6	904.9	1089.1	1039.1	971.0	1169.2	924.9
85°	312.3	370.4	386.4	424.4	696.7	910.9	860.9	774.8	694.7	682.7
87.5°	186.2	220.2	226.2	254.3	468.5	658.7	582.6	552.6	458.5	456.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)