

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: P193195

Luminaire Tested: **GAN-AF-07-LED-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193195
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: GAN-AF-07-LED-U-T3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40728.6 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

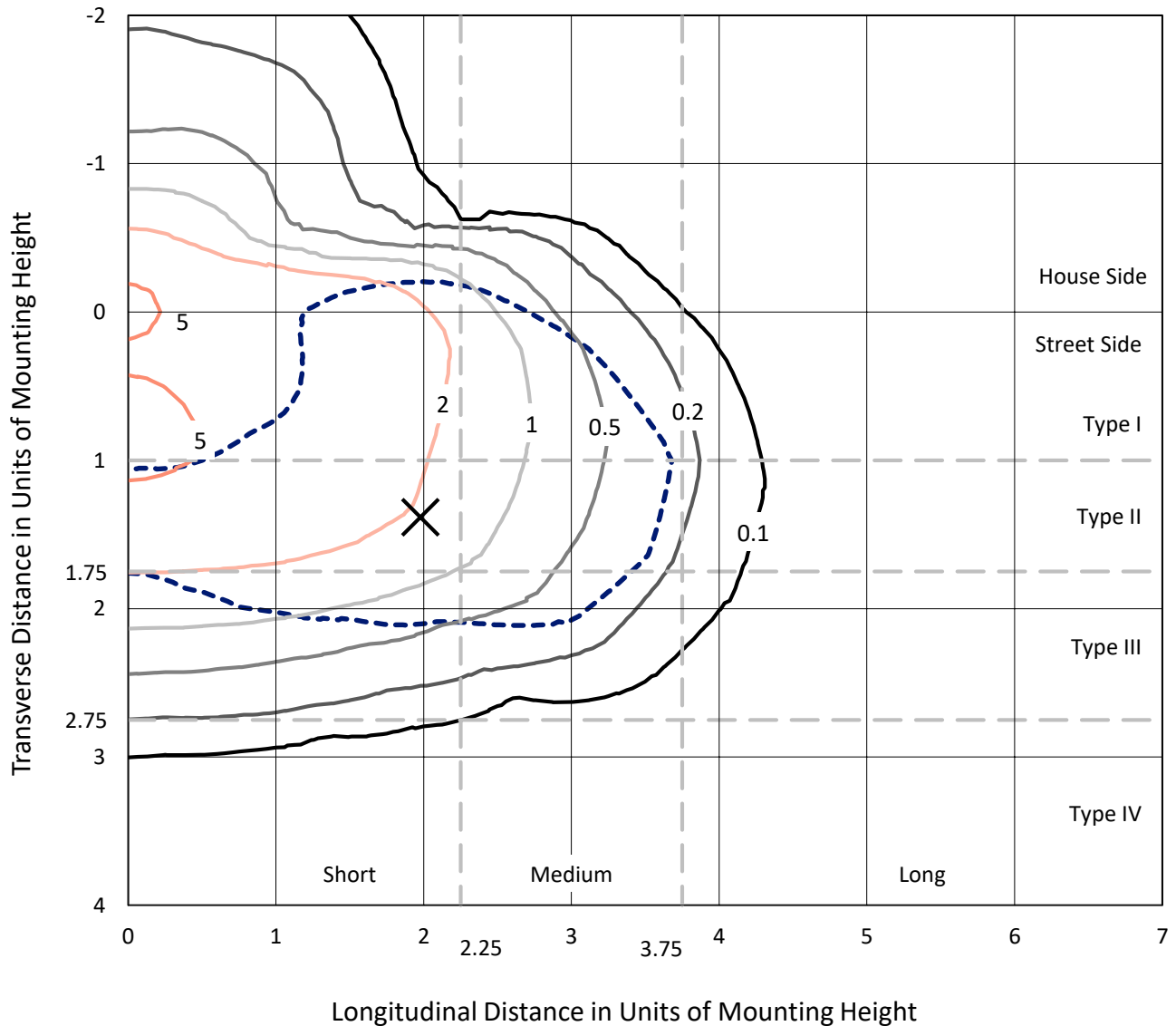
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

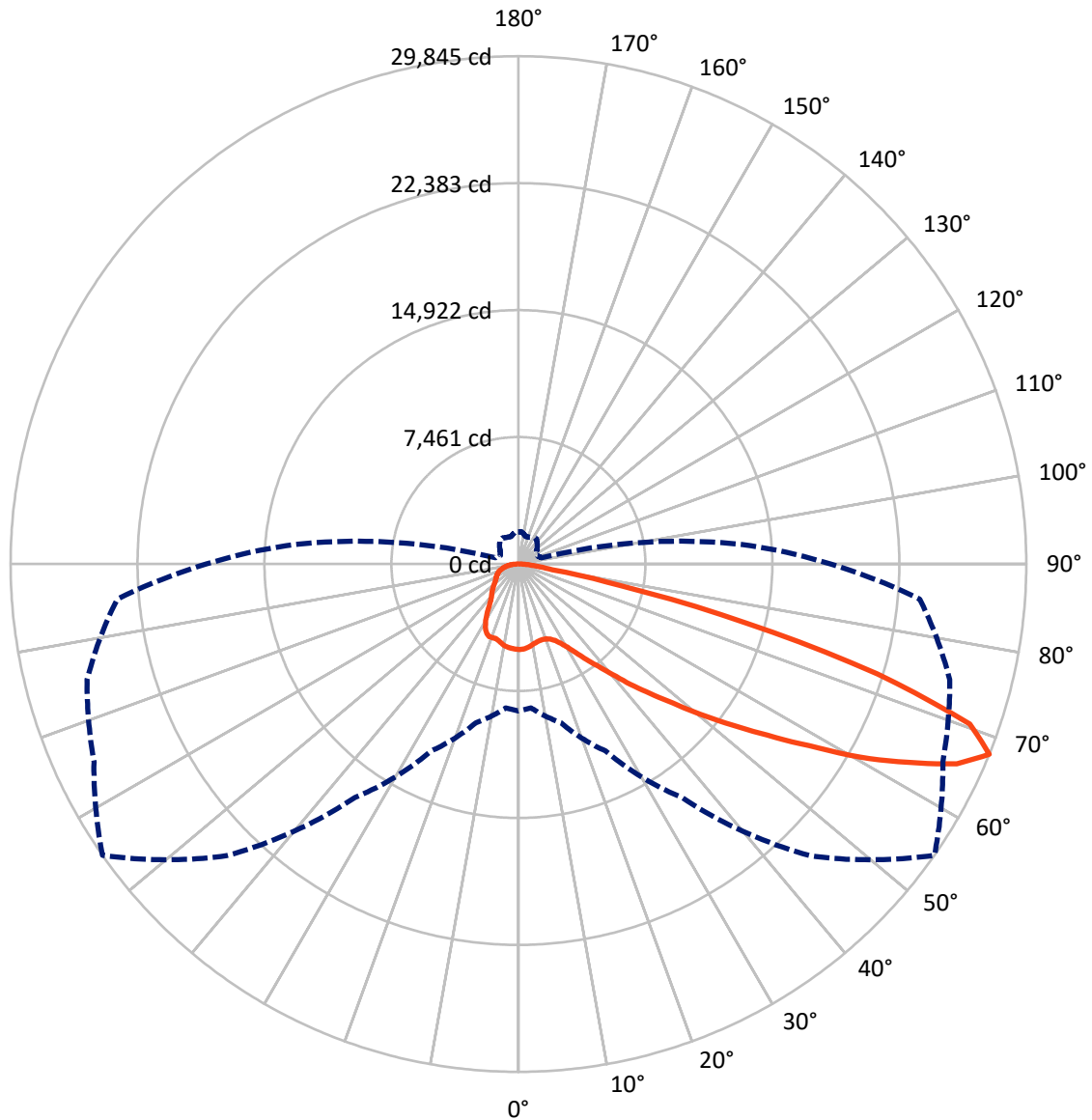
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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	8798.2	0.0	8798.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	31930.3	0.0	31930.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	40728.6	0.0	40728.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.8	1.2
10°-20°	1327.6	3.3
20°-30°	2224.0	5.5
30°-40°	3657.2	9.0
40°-50°	6156.1	15.1
50°-60°	9689.3	23.8
60°-70°	11563.1	28.4
70°-80°	4965.4	12.2
80°-90°	677.0	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°	40728.6	100.0
0°-180°	40728.6	100.0



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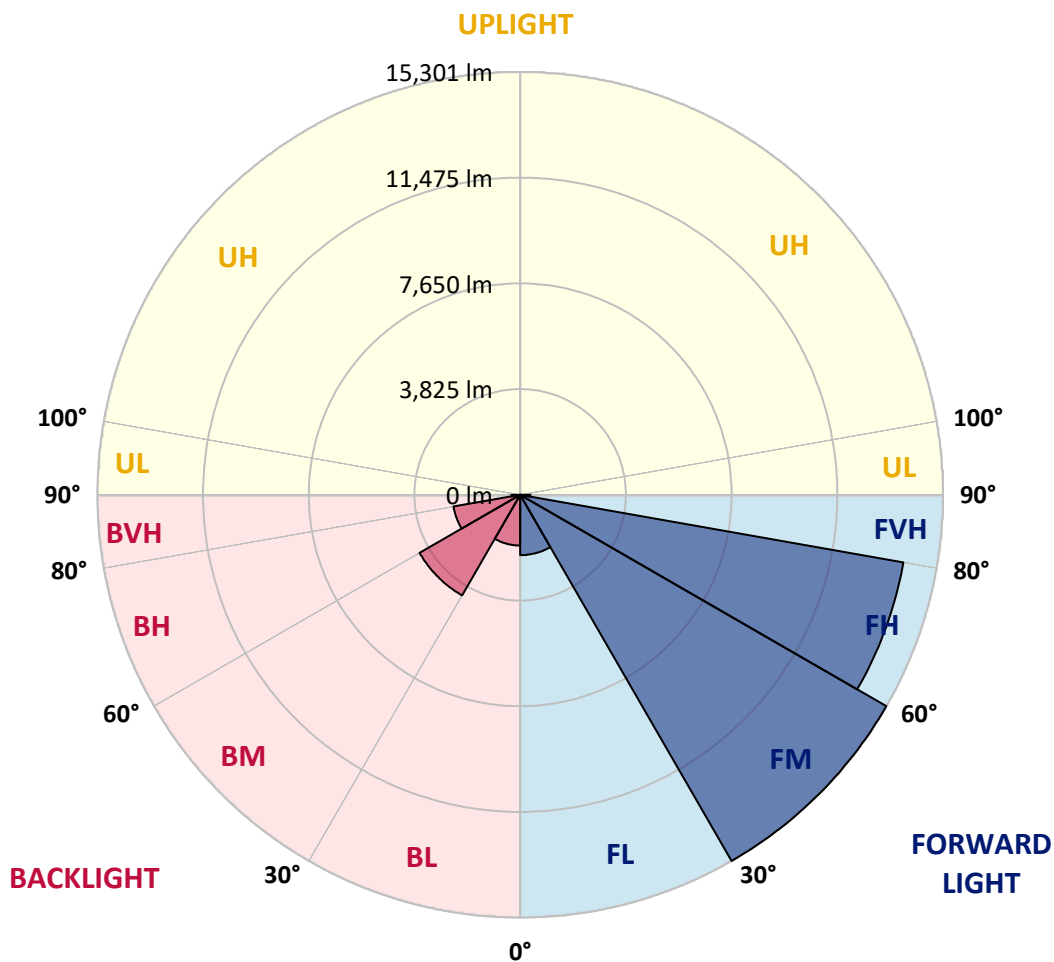
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2183.2	5.4			
FM	(30°-60°)	15300.7	37.6			
FH	(60°-80°)	14080.1	34.6			G5
FVH	(80°-90°)	366.5	0.9			G3/500
BL	(0°-30°)	1837.2	4.5	B3/2500		
BM	(30°-60°)	4201.9	10.3	B3/5000		
BH	(60°-80°)	2448.5	6.0	B3/2500		G3/2500
BVH	(80°-90°)	310.5	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°	5022.3	5022.3	5022.3	5022.3	5022.3	5022.3	5022.3	5022.3	5022.3	5022.3	5022.3
2.5°	4979.1	4981.0	4985.0	5000.7	5014.5	5010.5	5012.5	5004.6	5002.7	4990.9	5002.7
5°	4916.0	4921.9	4923.9	4949.5	4965.2	4969.1	4963.2	4953.4	4941.6	4929.8	4935.7
7.5°	4772.5	4788.2	4790.2	4825.6	4851.1	4884.6	4886.5	4888.5	4882.6	4874.7	4886.5
10°	4682.0	4685.9	4684.0	4709.5	4729.2	4766.6	4788.2	4825.6	4841.3	4845.2	4853.1
12.5°	4676.1	4672.2	4666.3	4666.3	4660.4	4676.1	4715.4	4768.5	4805.9	4817.7	4827.5
15°	4739.0	4737.1	4717.4	4687.9	4650.5	4638.7	4672.2	4731.2	4780.3	4805.9	4815.7
17.5°	4880.6	4868.8	4837.4	4770.5	4689.9	4658.4	4662.3	4711.5	4768.5	4802.0	4811.8
20°	5140.3	5140.3	5073.5	4947.5	4803.9	4729.2	4693.8	4723.3	4778.4	4823.6	4837.4
22.5°	5588.8	5592.8	5480.7	5274.1	5032.2	4872.8	4784.3	4778.4	4843.3	4894.4	4910.1
25°	6224.3	6208.5	6051.1	5756.0	5388.2	5124.6	4971.1	4935.7	4990.9	5047.9	5067.6
27.5°	6963.8	6906.9	6720.0	6364.0	5887.9	5502.3	5266.2	5209.2	5262.3	5327.2	5346.8
30°	7695.6	7636.6	7414.5	7025.0	6495.7	6007.8	5669.5	5577.0	5651.8	5744.2	5756.0
32.5°	8427.5	8427.5	8179.7	7725.1	7148.9	6611.9	6206.6	6096.3	6220.3	6332.4	6358.1
35°	9302.9	9306.8	9066.9	8519.9	7900.3	7331.8	6885.2	6804.5	6991.5	7070.1	7131.2
37.5°	10379.0	10400.6	10091.7	9430.8	8752.1	8154.0	7622.9	7512.7	7699.6	7914.0	8110.8
40°	11541.6	11569.1	11228.8	10414.4	9735.6	9110.1	8535.7	8337.0	8647.9	9057.0	9310.7
42.5°	12651.1	12792.7	12464.2	11626.2	10896.3	10249.2	9666.8	9377.7	9767.2	10384.9	10605.2
45°	14254.4	14356.6	13784.2	13024.9	12338.3	11614.4	10843.2	10538.3	11083.3	11862.3	11907.5
47.5°	15322.5	15245.8	14954.8	14482.6	14047.8	13371.1	12210.5	11876.1	12600.0	13516.7	13262.9
50°	15891.1	15914.7	15875.4	15902.9	15918.6	15493.7	13886.6	13428.2	14291.7	15399.3	14815.0
52.5°	16422.2	16264.9	16394.7	17040.0	17819.0	17661.5	15710.1	15232.1	16105.5	17488.5	16455.6
55°	16410.4	16170.5	16593.4	17732.4	19422.3	19603.2	17758.0	17207.1	18023.5	19729.2	18194.7
57.5°	15830.1	15841.9	16493.0	17984.2	20539.6	21428.8	20134.4	19308.1	20057.6	21999.3	19782.3
60°	15031.5	15139.6	16077.9	17942.9	21434.7	22925.9	23049.8	21572.3	22050.3	24062.8	21096.4
62.5°	13742.9	13857.1	15151.4	17514.0	21298.9	24367.8	25685.9	24141.6	24133.7	25314.1	21481.9
65°	11710.7	11677.3	13036.7	15910.8	20160.0	25434.0	28304.1	26362.5	25703.6	25333.7	20706.9
67.5°	8636.1	8486.5	9653.0	12118.0	16756.6	24239.9	29844.5	27519.2	26238.6	23667.4	18338.3
70°	4481.3	4331.8	5276.0	7076.0	11020.3	18918.7	28138.9	26921.3	25056.3	19839.3	14366.5
72.5°	1916.1	1890.5	2274.1	3104.3	5331.1	10912.0	22064.2	23301.6	21499.6	14781.5	9877.4
75°	1288.5	1280.6	1424.3	1691.8	2398.0	4428.2	13807.8	16540.3	15729.8	9165.2	5555.4
77.5°	1011.2	1001.4	1085.9	1215.7	1554.1	1746.8	6127.8	8879.9	8219.0	3989.5	2431.4
80°	790.8	783.0	836.1	906.9	1117.4	1101.7	2016.4	3533.1	2734.4	1528.5	1182.3
82.5°	623.7	623.7	666.9	668.8	792.7	751.4	1052.5	1556.1	1365.2	891.1	724.0
85°	570.5	570.5	615.7	499.7	517.4	474.0	653.2	922.5	865.6	365.9	314.7
87.5°	287.3	279.3	517.4	442.6	281.4	251.9	318.7	446.6	479.9	202.6	157.4
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°	5022.3	5022.3	5022.3	5022.3	5022.3	5022.3	5022.3	5022.3	5022.3	5022.3
2.5°	4998.7	4996.8	5000.7	5002.7	5018.4	5040.0	5049.9	5063.6	5071.5	5067.6
5°	4939.6	4943.6	4959.3	4971.1	4998.7	5034.1	5053.8	5069.5	5083.3	5077.4
7.5°	4890.5	4900.3	4923.9	4933.7	4949.5	4959.3	4957.3	4963.2	4975.0	4961.3
10°	4862.9	4874.7	4892.4	4878.7	4841.3	4788.2	4739.0	4713.5	4721.3	4711.5
12.5°	4835.4	4851.1	4837.4	4772.5	4668.2	4599.4	4561.9	4565.8	4583.7	4587.6
15°	4819.7	4825.6	4766.6	4644.6	4538.3	4528.5	4548.1	4544.2	4546.2	4546.2
17.5°	4819.7	4803.9	4693.8	4571.7	4526.5	4508.8	4447.8	4371.1	4337.7	4325.9
20°	4845.2	4803.9	4670.2	4589.6	4491.1	4339.7	4178.3	4036.7	3973.8	3956.1
22.5°	4921.9	4851.1	4737.1	4597.4	4318.0	4064.2	3808.6	3639.3	3525.2	3505.6
25°	5077.4	4998.7	4868.8	4493.1	4042.6	3680.6	3389.6	3200.6	3086.6	3070.8
27.5°	5348.8	5297.7	4939.6	4263.0	3676.7	3289.1	3019.7	2874.1	2789.5	2783.6
30°	5758.0	5732.4	4904.2	3922.6	3226.2	2909.5	2779.7	2695.1	2632.2	2630.2
32.5°	6411.2	6204.7	4788.2	3507.6	2815.1	2640.0	2586.8	2535.7	2486.5	2486.5
35°	7251.1	6586.2	4567.8	3063.0	2565.2	2490.4	2423.6	2342.9	2278.0	2274.1
37.5°	8238.7	6822.2	4172.4	2704.9	2447.2	2390.1	2291.8	2171.7	2057.7	2038.0
40°	9236.0	6893.0	3615.7	2484.5	2372.4	2289.8	2169.8	2028.2	1918.0	1912.1
42.5°	10150.7	6757.3	3025.6	2333.1	2297.7	2187.5	2061.6	1935.7	1849.2	1847.2
45°	10917.9	6405.3	2529.8	2189.4	2219.0	2095.0	1982.9	1880.7	1813.8	1800.0
47.5°	11639.9	5907.5	2181.6	2038.0	2140.3	2043.9	1949.5	1853.1	1788.1	1778.3
50°	12478.0	5370.4	1937.7	1890.5	2071.4	2026.2	1977.0	1876.7	1768.5	1756.7
52.5°	13493.1	4906.2	1746.8	1760.6	2018.3	2049.8	2047.8	1943.6	1754.7	1739.0
55°	14626.2	4390.8	1603.3	1654.4	1996.7	2093.1	2065.5	2006.5	1766.5	1742.9
57.5°	15741.6	3788.9	1503.0	1573.8	1965.2	2089.1	1981.0	1896.4	1794.1	1760.6
60°	16577.7	2980.3	1426.3	1503.0	1896.4	2024.2	1888.5	1776.3	1788.1	1762.6
62.5°	16632.7	2303.6	1333.7	1442.0	1792.2	1959.3	1827.6	1723.2	1813.8	1790.1
65°	15655.0	1740.9	1245.2	1369.1	1680.0	1918.0	1768.5	1693.7	1866.9	1841.3
67.5°	13180.3	1400.7	1170.5	1294.4	1567.9	1831.5	1715.4	1666.2	1914.1	1868.9
70°	9515.4	1194.1	1097.7	1203.9	1467.6	1733.1	1668.2	1617.0	1786.2	1715.4
72.5°	5858.4	1034.8	1015.1	1084.0	1390.8	1630.8	1597.4	1524.6	1609.2	1552.1
75°	2925.2	897.0	922.5	965.9	1282.6	1514.8	1479.4	1406.6	1418.4	1406.6
77.5°	1400.7	767.2	814.4	847.9	1143.0	1382.9	1345.5	1270.8	1257.0	1259.0
80°	887.1	641.4	686.5	710.1	1021.0	1229.5	1192.1	1117.4	1274.7	1182.3
82.5°	554.7	521.2	533.0	576.4	889.2	1070.2	1021.0	954.1	1148.9	908.8
85°	306.9	364.0	379.6	417.1	684.6	895.1	845.8	761.3	682.7	670.9
87.5°	182.9	216.5	222.4	249.8	460.3	647.3	572.4	542.9	450.4	448.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)