

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: P191447

Luminaire Tested: **GAN-AF-09-LED-U-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191447
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-09-LED-U-T3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43990 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - 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

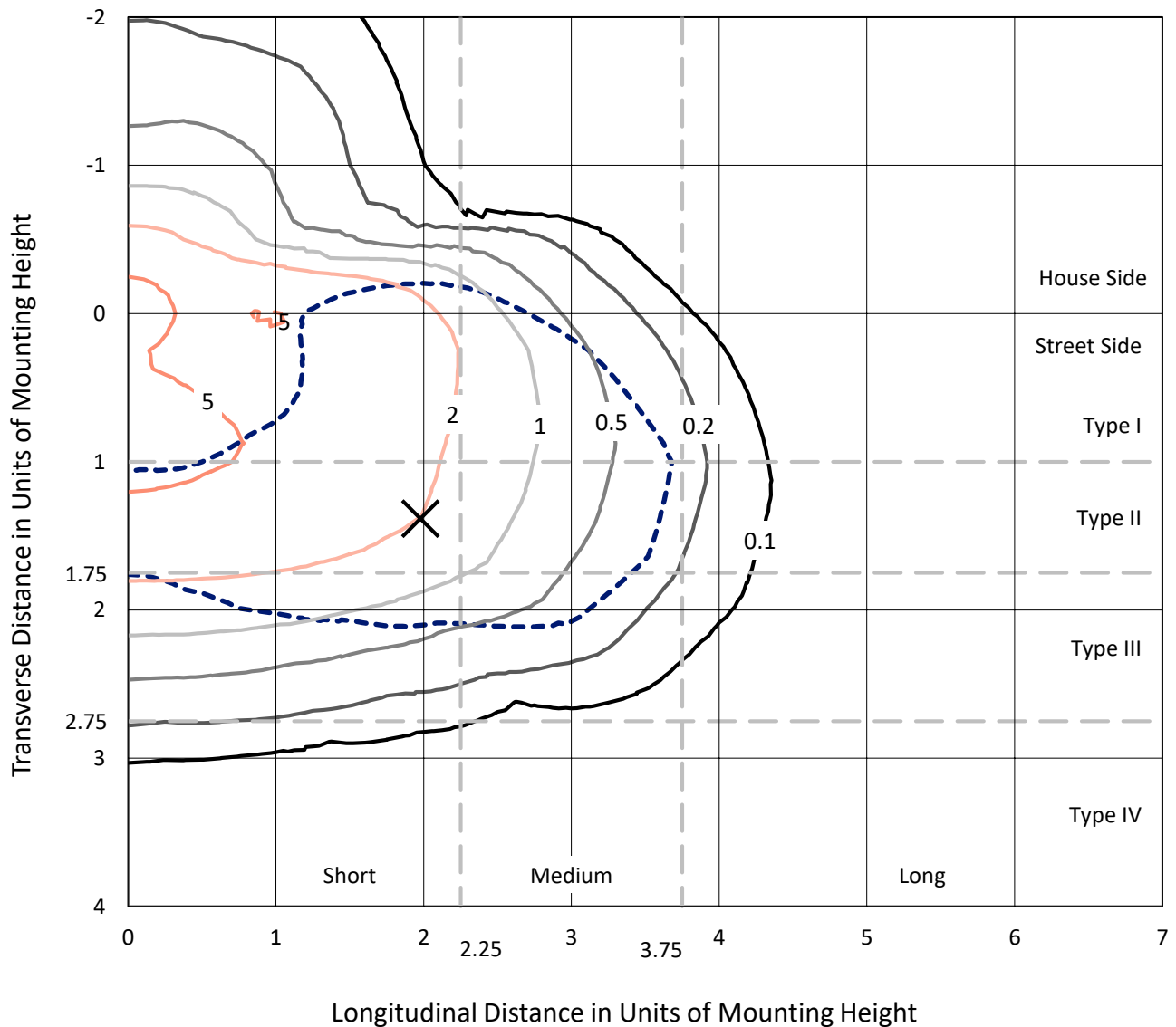


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Iso-Footcandle Lines of Horizontal Illumination

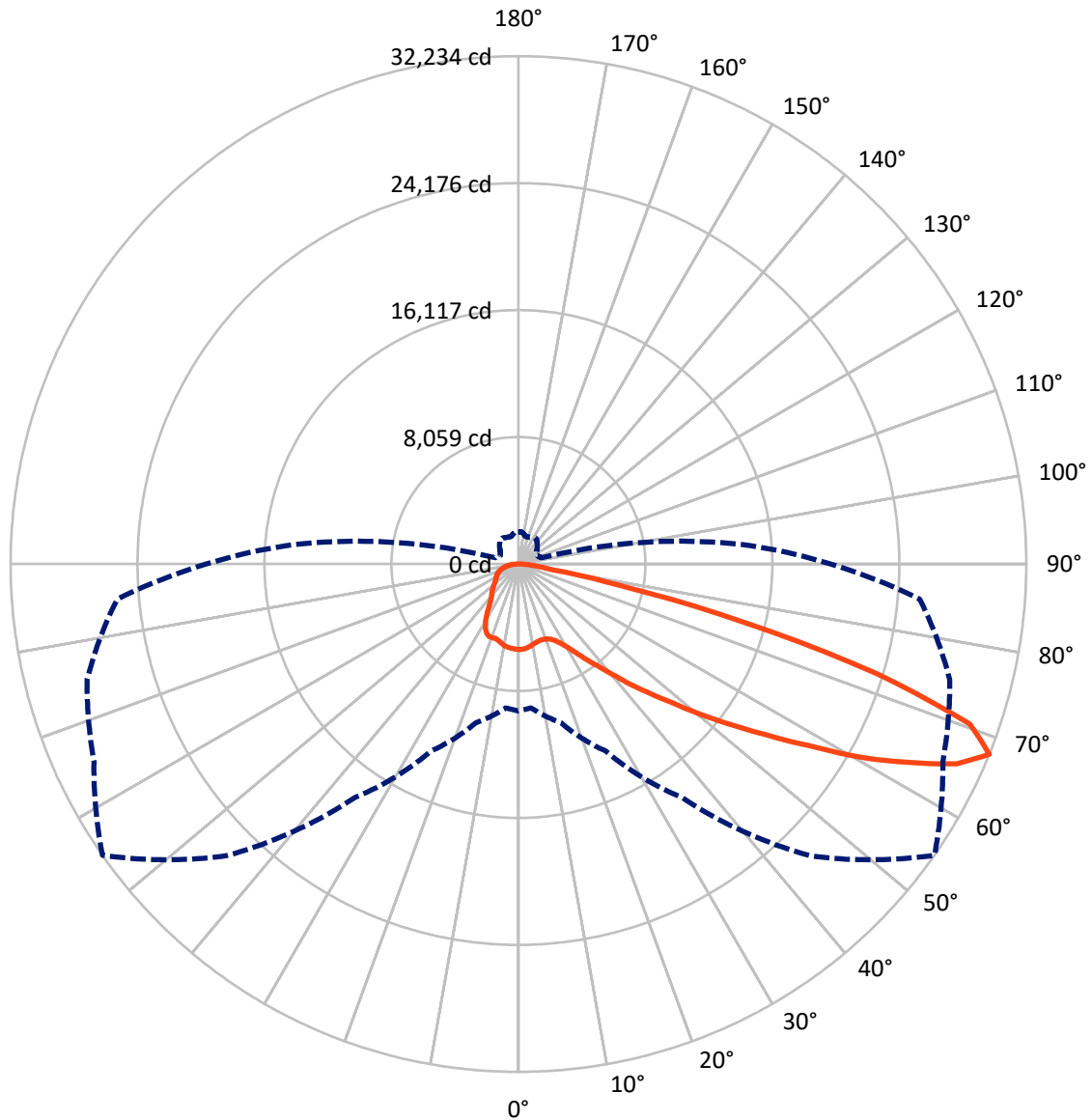
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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	9502.8	0.0	9502.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	34487.2	0.0	34487.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	43990.0	0.0	43990.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.3	1.2
10°-20°	1434.0	3.3
20°-30°	2402.1	5.5
30°-40°	3950.0	9.0
40°-50°	6649.1	15.1
50°-60°	10465.2	23.8
60°-70°	12489.1	28.4
70°-80°	5363.0	12.2
80°-90°	731.2	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°	43990.0	100.0
0°-180°	43990.0	100.0



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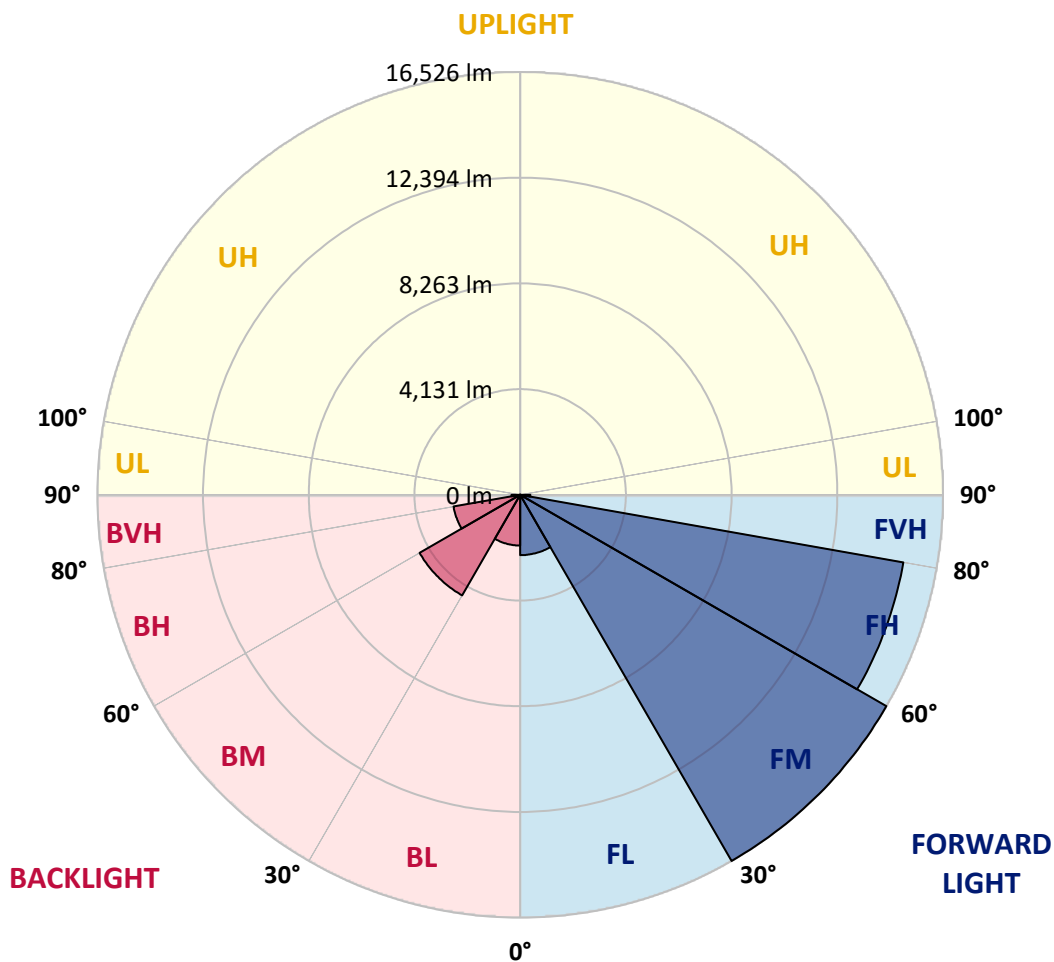
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2358.0	5.4			
FM	(30°-60°)	16525.9	37.6			
FH	(60°-80°)	15207.5	34.6			G5
FVH	(80°-90°)	395.8	0.9			G3/500
BL	(0°-30°)	1984.4	4.5	B3/2500		
BM	(30°-60°)	4538.4	10.3	B3/5000		
BH	(60°-80°)	2644.6	6.0	B4/5000		G4/5000
BVH	(80°-90°)	335.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5424.4	5424.4	5424.4	5424.4	5424.4	5424.4	5424.4	5424.4	5424.4	5424.4	5424.4
2.5°	5377.7	5379.8	5384.1	5401.1	5415.9	5411.7	5413.9	5405.3	5403.2	5390.4	5403.2
5°	5309.7	5316.1	5318.2	5345.8	5362.8	5367.1	5360.7	5350.0	5337.3	5324.6	5330.9
7.5°	5154.6	5171.6	5173.7	5211.9	5239.6	5275.7	5277.8	5280.0	5273.6	5265.1	5277.8
10°	5056.9	5061.2	5059.0	5086.6	5107.9	5148.2	5171.6	5211.9	5228.9	5233.2	5241.7
12.5°	5050.5	5046.2	5039.9	5039.9	5033.5	5050.5	5093.0	5150.4	5190.8	5203.4	5214.1
15°	5118.4	5116.4	5095.1	5063.2	5022.9	5010.1	5046.2	5109.9	5163.1	5190.8	5201.3
17.5°	5271.5	5258.7	5224.7	5152.5	5065.3	5031.4	5035.6	5088.8	5150.4	5186.5	5197.1
20°	5552.0	5552.0	5479.6	5343.7	5188.6	5107.9	5069.6	5101.5	5161.0	5209.9	5224.7
22.5°	6036.3	6040.6	5919.5	5696.4	5435.0	5263.0	5167.3	5161.0	5231.1	5286.3	5303.3
25°	6722.6	6705.6	6535.6	6217.0	5819.7	5534.9	5369.2	5330.9	5390.4	5452.0	5473.3
27.5°	7521.6	7460.0	7258.0	6873.5	6359.3	5942.8	5687.9	5626.3	5683.6	5753.8	5775.1
30°	8312.0	8248.3	8008.1	7587.4	7015.9	6488.9	6123.5	6023.6	6104.4	6204.2	6217.0
32.5°	9102.3	9102.3	8834.6	8343.8	7721.2	7141.2	6703.5	6584.5	6718.4	6839.6	6867.2
35°	10047.8	10052.1	9792.9	9202.3	8532.9	7918.9	7436.5	7349.5	7551.3	7636.3	7702.2
37.5°	11210.1	11233.4	10899.8	10185.9	9452.9	8807.0	8233.3	8114.4	8316.2	8547.8	8760.2
40°	12465.8	12495.5	12128.0	11248.4	10515.3	9839.7	9219.2	9004.6	9340.4	9782.3	10056.3
42.5°	13664.2	13817.1	13462.3	12557.1	11768.8	11069.9	10441.0	10128.6	10549.3	11216.5	11454.4
45°	15395.8	15506.3	14888.0	14067.8	13326.3	12544.4	11711.6	11382.2	11970.8	12812.2	12861.0
47.5°	16549.5	16466.6	16152.2	15642.2	15172.7	14441.8	13188.2	12827.0	13608.9	14599.0	14325.0
50°	17163.6	17189.1	17146.6	17176.4	17193.3	16734.4	14998.5	14503.4	15436.2	16632.4	16001.4
52.5°	17737.3	17567.2	17707.5	18404.4	19245.8	19075.9	16968.1	16451.8	17395.2	18888.9	17773.4
55°	17724.6	17465.4	17922.1	19152.3	20977.4	21172.9	19179.9	18585.1	19466.8	21309.0	19651.6
57.5°	17097.7	17110.5	17813.8	19424.3	22184.3	23144.7	21746.6	20854.3	21663.7	23760.9	21366.3
60°	16235.0	16352.0	17365.4	19379.7	23151.1	24761.6	24895.5	23299.9	23816.1	25989.7	22785.6
62.5°	14843.4	14966.6	16364.7	18916.5	23004.5	26319.1	27742.6	26074.7	26066.2	27341.0	23202.1
65°	12648.6	12612.4	14080.6	17184.9	21774.2	27470.6	30570.7	28473.5	27761.8	27362.3	22365.0
67.5°	9327.6	9166.0	10426.0	13088.3	18098.5	26181.0	32234.3	29722.9	28339.7	25562.6	19806.8
70°	4840.1	4678.7	5698.6	7642.7	11902.7	20433.5	30392.2	29077.0	27062.7	21428.0	15516.9
72.5°	2069.5	2041.9	2456.2	3352.8	5758.0	11785.9	23831.0	25167.5	23221.2	15965.2	10668.3
75°	1391.7	1383.2	1538.3	1827.3	2590.0	4782.8	14913.5	17864.7	16989.4	9899.1	6000.2
77.5°	1092.1	1081.5	1172.8	1313.1	1678.6	1886.7	6618.5	9591.1	8877.2	4309.0	2626.1
80°	854.2	845.7	903.1	979.5	1206.9	1189.9	2177.9	3816.0	2953.4	1650.9	1276.9
82.5°	673.5	673.5	720.3	722.4	856.3	811.6	1136.7	1680.7	1474.6	962.5	781.9
85°	616.1	616.1	665.0	539.7	558.8	512.1	705.4	996.5	934.9	395.2	339.9
87.5°	310.3	301.7	558.8	478.0	303.8	272.0	344.2	482.3	518.4	218.8	170.0
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°	5424.4	5424.4	5424.4	5424.4	5424.4	5424.4	5424.4	5424.4	5424.4	5424.4
2.5°	5398.9	5396.8	5401.1	5403.2	5420.2	5443.5	5454.2	5469.1	5477.6	5473.3
5°	5335.2	5339.5	5356.5	5369.2	5398.9	5437.2	5458.5	5475.4	5490.3	5483.9
7.5°	5282.1	5292.7	5318.2	5328.9	5345.8	5356.5	5354.3	5360.7	5373.5	5358.6
10°	5252.3	5265.1	5284.3	5269.3	5228.9	5171.6	5118.4	5090.8	5099.3	5088.8
12.5°	5222.6	5239.6	5224.7	5154.6	5042.0	4967.7	4927.2	4931.5	4950.7	4954.9
15°	5205.6	5211.9	5148.2	5016.4	4901.8	4891.1	4912.4	4908.1	4910.3	4910.3
17.5°	5205.6	5188.6	5069.6	4937.9	4889.0	4869.9	4804.0	4721.1	4685.0	4672.3
20°	5233.2	5188.6	5044.1	4957.0	4850.7	4687.2	4513.0	4359.9	4292.0	4272.9
22.5°	5316.1	5239.6	5116.4	4965.5	4663.8	4389.7	4113.5	3930.8	3807.5	3786.2
25°	5483.9	5398.9	5258.7	4852.9	4366.4	3975.4	3660.9	3457.0	3333.7	3316.7
27.5°	5777.1	5721.9	5335.2	4604.3	3971.1	3552.5	3261.5	3104.2	3012.9	3006.5
30°	6219.1	6191.5	5296.9	4236.8	3484.6	3142.5	3002.3	2910.9	2842.9	2840.7
32.5°	6924.5	6701.5	5171.6	3788.4	3040.5	2851.4	2794.0	2738.7	2685.7	2685.7
35°	7831.8	7113.6	4933.6	3308.2	2770.7	2690.0	2617.6	2530.6	2460.4	2456.2
37.5°	8898.3	7368.6	4506.5	2921.5	2643.2	2581.5	2475.3	2345.7	2222.5	2201.2
40°	9975.6	7445.0	3905.2	2683.5	2562.4	2473.2	2343.6	2190.6	2071.6	2065.2
42.5°	10963.6	7298.4	3267.8	2519.9	2481.7	2362.7	2226.8	2090.7	1997.2	1995.2
45°	11792.3	6918.1	2732.4	2364.9	2396.7	2262.9	2141.8	2031.3	1959.1	1944.1
47.5°	12572.1	6380.6	2356.4	2201.2	2311.7	2207.6	2105.6	2001.5	1931.3	1920.8
50°	13477.2	5800.5	2092.9	2041.9	2237.3	2188.5	2135.3	2027.0	1910.2	1897.4
52.5°	14573.6	5299.1	1886.7	1901.7	2180.0	2214.0	2211.8	2099.2	1895.2	1878.2
55°	15797.4	4742.4	1731.7	1786.9	2156.6	2260.7	2231.0	2167.2	1908.0	1882.5
57.5°	17002.2	4092.2	1623.3	1699.7	2122.6	2256.4	2139.6	2048.3	1937.8	1901.7
60°	17905.1	3218.9	1540.5	1623.3	2048.3	2186.4	2039.8	1918.6	1931.3	1903.7
62.5°	17964.7	2488.0	1440.5	1557.4	1935.6	2116.3	1973.9	1861.3	1959.1	1933.5
65°	16908.7	1880.4	1345.0	1478.8	1814.5	2071.6	1910.2	1829.4	2016.3	1988.7
67.5°	14235.7	1512.8	1264.3	1398.1	1693.4	1978.1	1852.8	1799.7	2067.4	2018.5
70°	10277.3	1289.7	1185.6	1300.4	1585.1	1871.9	1801.7	1746.5	1929.3	1852.8
72.5°	6327.5	1117.6	1096.4	1170.8	1502.2	1761.4	1725.3	1646.6	1738.0	1676.4
75°	3159.5	968.8	996.5	1043.2	1385.3	1636.0	1597.8	1519.2	1532.0	1519.2
77.5°	1512.8	828.7	879.6	915.7	1234.5	1493.7	1453.3	1372.6	1357.7	1359.8
80°	958.3	692.6	741.5	767.0	1102.7	1328.0	1287.6	1206.9	1376.8	1276.9
82.5°	599.1	563.0	575.8	622.6	960.3	1155.8	1102.7	1030.5	1240.8	981.6
85°	331.4	393.1	410.1	450.4	739.4	966.8	913.6	822.2	737.2	724.6
87.5°	197.6	233.7	240.1	269.9	497.2	699.1	618.3	586.5	486.5	484.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)