

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: P268865

Luminaire Tested: **GAN-AF-09-LED-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268865
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-T3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46242.5 lumens
Efficiency: N/A
Efficacy: 92.3 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

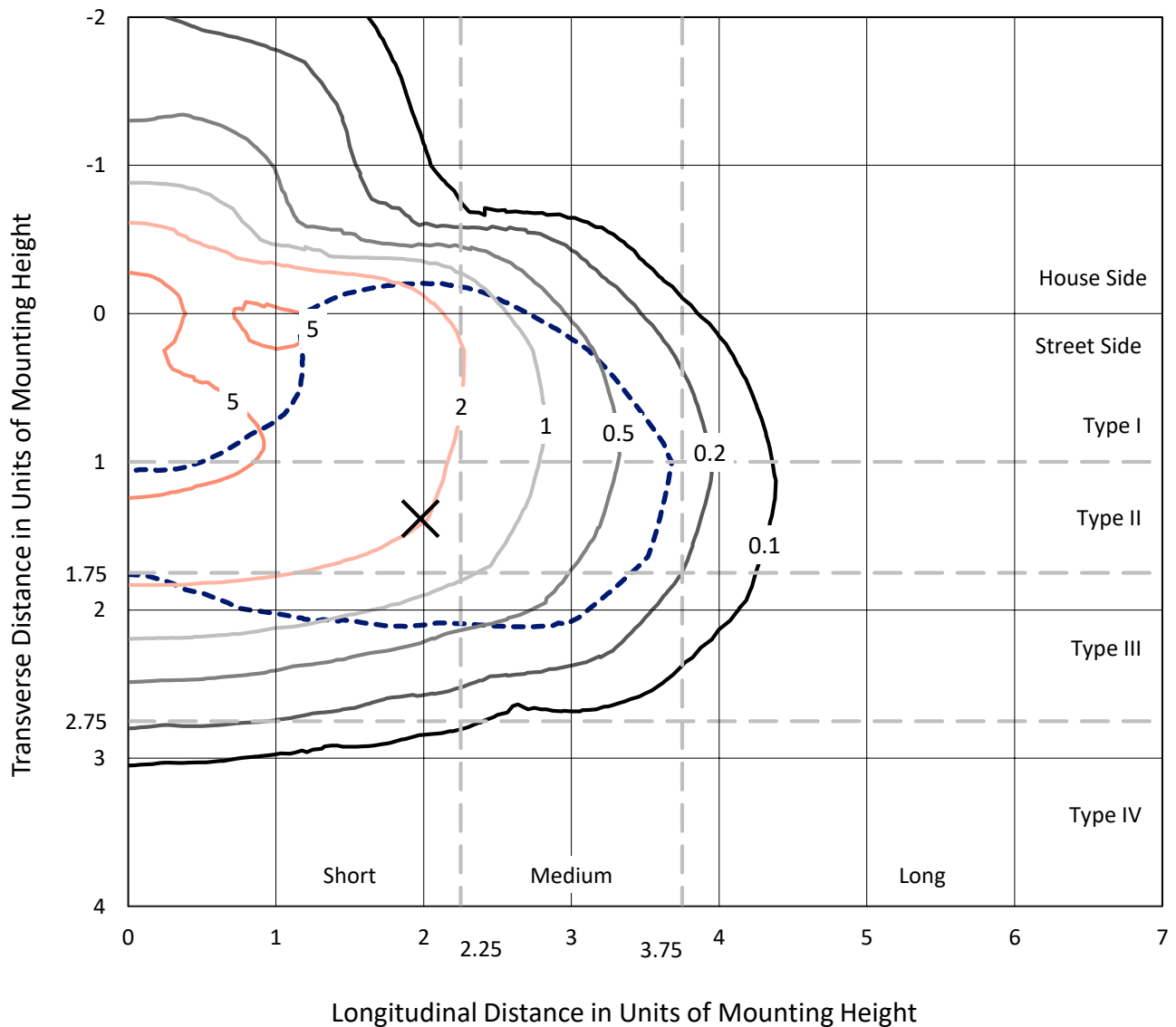
Input Watts (W): 501
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

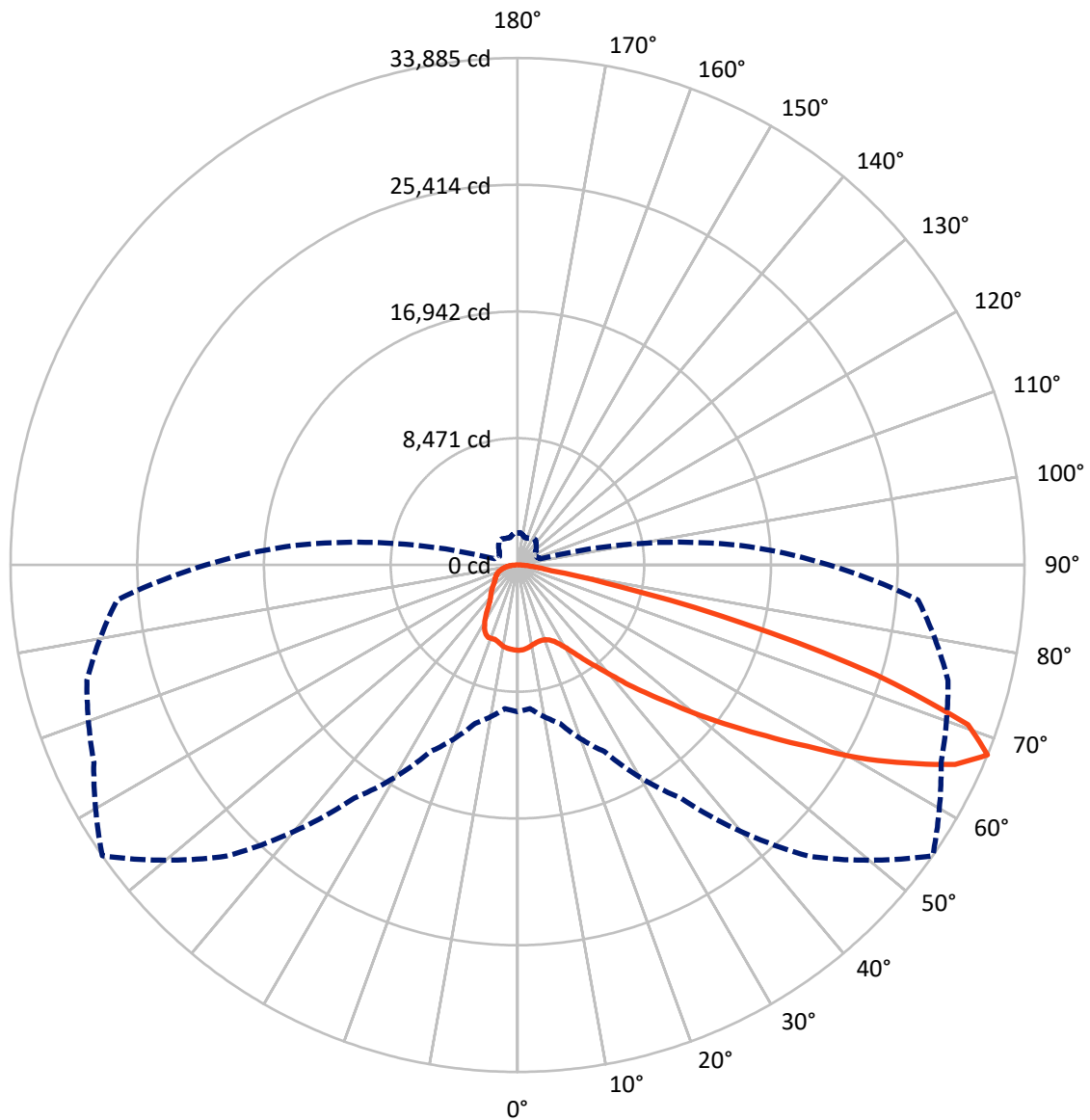
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	9989.4	0.0	9989.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	36253.1	0.0	36253.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	46242.5	0.0	46242.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.2	1.2
10°-20°	1507.4	3.3
20°-30°	2525.1	5.5
30°-40°	4152.3	9.0
40°-50°	6989.6	15.1
50°-60°	11001.1	23.8
60°-70°	13128.6	28.4
70°-80°	5637.7	12.2
80°-90°	768.6	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°	46242.5	100.0
0°-180°	46242.5	100.0



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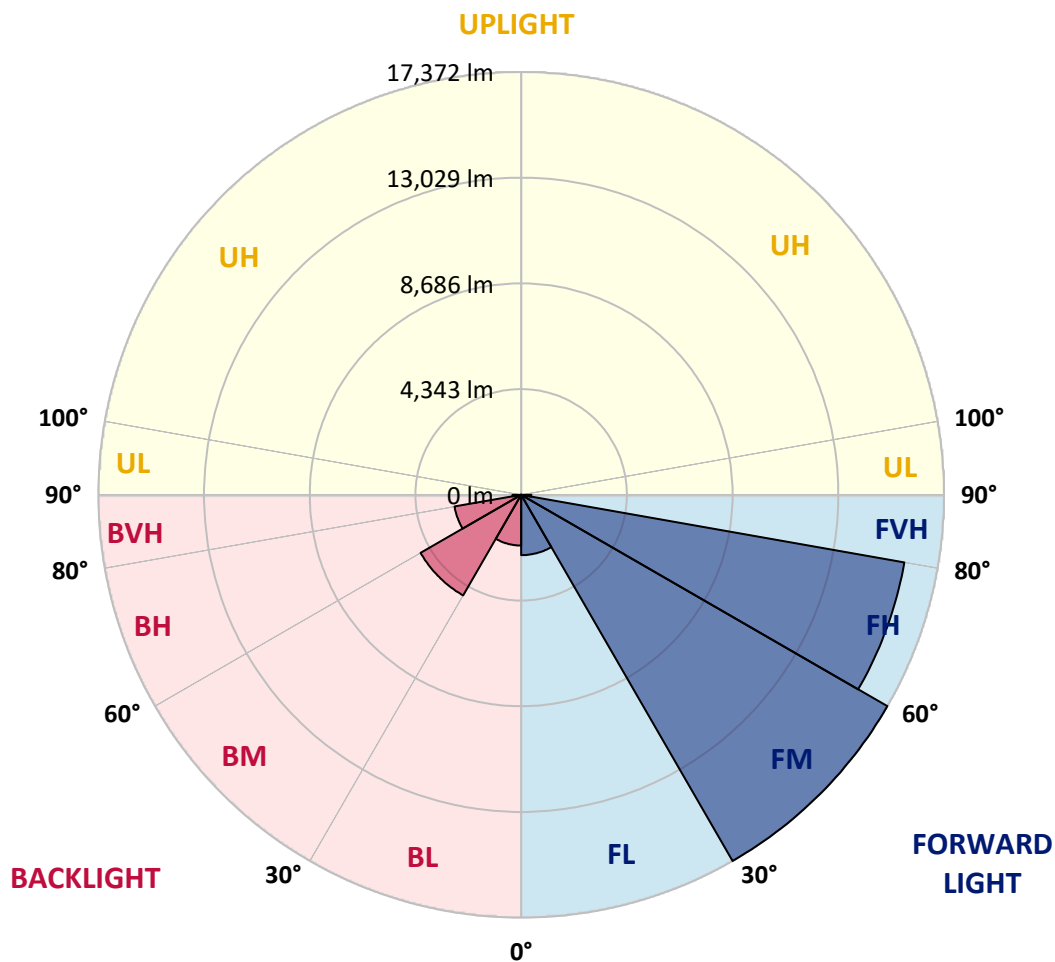
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2478.7	5.4			
FM (30°-60°)	17372.1	37.6			
FH (60°-80°)	15986.3	34.6			G5
FVH (80°-90°)	416.1	0.9			G3/500
BL (0°-30°)	2086.0	4.5	B3/2500		
BM (30°-60°)	4770.8	10.3	B3/5000		
BH (60°-80°)	2780.0	6.0	B4/5000		G4/5000
BVH (80°-90°)	352.6	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°	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3
2.5°	5653.0	5655.3	5659.9	5677.6	5693.3	5688.7	5691.0	5682.0	5679.9	5666.5	5679.9
5°	5581.6	5588.3	5590.5	5619.5	5637.5	5642.0	5635.2	5624.0	5610.6	5597.2	5603.9
7.5°	5418.5	5436.5	5438.7	5478.9	5507.9	5545.9	5548.1	5550.3	5543.6	5534.6	5548.1
10°	5315.8	5320.3	5318.1	5347.2	5369.3	5411.8	5436.5	5478.9	5496.6	5501.2	5510.2
12.5°	5309.2	5304.6	5297.9	5297.9	5291.2	5309.2	5353.8	5414.1	5456.6	5469.9	5481.1
15°	5380.6	5378.3	5356.1	5322.5	5280.1	5266.7	5304.6	5371.7	5427.5	5456.6	5467.7
17.5°	5541.4	5528.0	5492.2	5416.3	5324.8	5289.0	5293.4	5349.2	5414.1	5452.1	5463.2
20°	5836.2	5836.2	5760.3	5617.3	5454.2	5369.3	5329.3	5362.7	5425.3	5476.6	5492.2
22.5°	6345.4	6349.8	6222.6	5988.1	5713.4	5532.4	5432.0	5425.3	5499.0	5557.1	5574.9
25°	7066.8	7049.0	6870.3	6535.3	6117.6	5818.3	5644.1	5603.9	5666.5	5731.2	5753.6
27.5°	7906.7	7841.9	7629.8	7225.4	6684.9	6247.3	5979.2	5914.4	5974.6	6048.4	6070.7
30°	8737.5	8670.6	8418.1	7976.0	7375.2	6821.2	6437.1	6332.1	6417.0	6522.0	6535.3
32.5°	9568.4	9568.4	9286.9	8771.1	8116.6	7506.9	7046.8	6921.7	7062.5	7189.8	7218.8
35°	10562.5	10566.9	10294.3	9673.4	8969.8	8324.4	7817.4	7725.9	7938.0	8027.3	8096.6
37.5°	11784.1	11808.7	11458.1	10707.5	9937.1	9258.0	8654.9	8529.9	8742.0	8985.4	9208.9
40°	13104.1	13135.3	12748.9	11824.3	11053.7	10343.4	9691.3	9465.7	9818.7	10283.2	10571.3
42.5°	14363.9	14524.7	14151.7	13200.1	12371.5	11636.7	10975.6	10647.3	11089.4	11790.9	12041.1
45°	16184.1	16300.4	15650.4	14788.2	14008.7	13186.8	12311.2	11965.1	12583.6	13468.2	13519.6
47.5°	17396.9	17309.9	16979.4	16443.3	15949.6	15181.4	13863.5	13483.7	14305.8	15346.6	15058.5
50°	18042.5	18069.2	18024.6	18055.8	18073.7	17591.2	15766.5	15246.0	16226.7	17484.2	16820.8
52.5°	18645.5	18466.8	18614.3	19346.8	20231.3	20052.7	17836.9	17294.2	18285.9	19856.0	18683.5
55°	18632.1	18359.6	18839.9	20133.1	22051.7	22257.1	20162.1	19536.7	20463.6	22400.0	20658.0
57.5°	17973.2	17986.7	18725.9	20419.0	23320.3	24329.9	22860.2	21922.1	22773.1	24977.6	22460.4
60°	17066.4	17189.2	18254.6	20372.0	24336.5	26029.6	26170.3	24492.8	25035.7	27320.5	23952.3
62.5°	15603.5	15732.9	17202.6	19885.2	24182.5	27666.8	29163.2	27410.0	27401.0	28741.1	24390.2
65°	13296.3	13258.3	14801.6	18064.7	22889.3	28877.4	32136.1	29931.5	29183.2	28763.4	23510.1
67.5°	9805.2	9635.5	10960.0	13758.5	19025.3	27521.6	33884.8	31244.8	29790.9	26871.5	20820.9
70°	5088.0	4918.2	5990.3	8034.0	12512.2	21479.9	31948.4	30565.9	28448.6	22525.2	16311.5
72.5°	2175.4	2146.4	2582.0	3524.5	6052.9	12389.5	25051.4	26456.3	24410.3	16782.8	11214.6
75°	1463.0	1454.0	1617.0	1920.8	2722.7	5027.6	15677.2	18779.5	17859.4	10406.1	6307.4
77.5°	1148.0	1136.8	1233.0	1380.3	1764.5	1983.4	6957.5	10082.1	9331.8	4529.7	2760.6
80°	897.9	889.0	949.2	1029.6	1268.6	1250.8	2289.4	4011.4	3104.6	1735.4	1342.3
82.5°	708.0	708.0	757.2	759.3	900.1	853.2	1194.9	1766.7	1550.0	1011.9	821.9
85°	647.7	647.7	699.2	567.3	587.4	538.3	741.6	1047.6	982.7	415.5	357.3
87.5°	326.1	317.1	587.4	502.5	319.3	285.9	361.8	507.1	545.0	230.1	178.8
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°	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3	5702.3
2.5°	5675.4	5673.2	5677.6	5679.9	5697.7	5722.4	5733.5	5749.2	5758.0	5753.6
5°	5608.4	5612.9	5630.8	5644.1	5675.4	5715.6	5738.0	5755.8	5771.4	5764.8
7.5°	5552.6	5563.7	5590.5	5601.7	5619.5	5630.8	5628.5	5635.2	5648.6	5632.9
10°	5521.3	5534.6	5554.8	5539.2	5496.6	5436.5	5380.6	5351.6	5360.5	5349.2
12.5°	5490.0	5507.9	5492.2	5418.5	5300.2	5221.9	5179.5	5183.9	5204.2	5208.6
15°	5472.1	5478.9	5411.8	5273.4	5152.8	5141.5	5163.9	5159.4	5161.8	5161.8
17.5°	5472.1	5454.2	5329.3	5190.8	5139.4	5119.3	5050.0	4962.9	4925.0	4911.6
20°	5501.2	5454.2	5302.3	5210.8	5099.1	4927.2	4743.9	4583.2	4511.7	4491.6
22.5°	5588.3	5507.9	5378.3	5219.7	4902.6	4614.5	4324.1	4132.1	4002.5	3980.1
25°	5764.8	5675.4	5528.0	5101.4	4589.9	4178.9	3848.3	3634.0	3504.4	3486.5
27.5°	6073.0	6015.0	5608.4	4840.1	4174.5	3734.4	3428.6	3263.3	3167.2	3160.4
30°	6537.5	6508.5	5568.2	4453.6	3663.0	3303.3	3155.9	3059.9	2988.5	2986.2
32.5°	7279.1	7044.6	5436.5	3982.4	3196.2	2997.5	2937.1	2879.0	2823.3	2823.3
35°	8232.7	7477.9	5186.3	3477.6	2912.6	2827.7	2751.7	2660.2	2586.4	2582.0
37.5°	9354.1	7745.8	4737.3	3071.1	2778.5	2713.7	2602.1	2465.8	2336.3	2313.9
40°	10486.5	7826.4	4105.3	2820.9	2693.7	2599.9	2463.6	2302.7	2177.8	2171.1
42.5°	11525.1	7672.2	3435.2	2648.9	2608.8	2483.6	2340.8	2197.9	2099.5	2097.4
45°	12396.2	7272.4	2872.3	2485.9	2519.4	2378.7	2251.4	2135.2	2059.4	2043.6
47.5°	13215.9	6707.3	2476.9	2313.9	2430.1	2320.6	2213.5	2104.0	2030.3	2019.1
50°	14167.3	6097.5	2199.9	2146.4	2351.9	2300.5	2244.8	2130.8	2007.9	1994.5
52.5°	15319.8	5570.4	1983.4	1999.0	2291.5	2327.4	2325.2	2206.7	1992.4	1974.5
55°	16606.2	4985.2	1820.3	1878.4	2267.1	2376.5	2345.3	2278.2	2005.7	1978.8
57.5°	17872.7	4301.8	1706.4	1786.8	2231.3	2372.1	2249.1	2153.1	2036.9	1999.0
60°	18821.9	3383.7	1619.4	1706.4	2153.1	2298.4	2144.2	2016.9	2030.3	2001.2
62.5°	18884.4	2615.4	1514.4	1637.3	2034.8	2224.7	2074.9	1956.6	2059.4	2032.5
65°	17774.5	1976.7	1413.8	1554.5	1907.5	2177.8	2007.9	1923.1	2119.6	2090.5
67.5°	14964.7	1590.3	1329.0	1469.6	1780.1	2079.4	1947.6	1891.8	2173.2	2121.8
70°	10803.6	1355.7	1246.3	1367.0	1666.3	1967.7	1894.0	1836.0	2028.1	1947.6
72.5°	6651.5	1174.9	1152.4	1230.7	1579.1	1851.5	1813.6	1730.9	1827.1	1762.2
75°	3321.3	1018.5	1047.6	1096.7	1456.2	1719.8	1679.7	1596.9	1610.4	1596.9
77.5°	1590.3	871.0	924.6	962.7	1297.7	1570.1	1527.7	1442.9	1427.2	1429.5
80°	1007.3	728.2	779.5	806.3	1159.3	1396.0	1353.6	1268.6	1447.3	1342.3
82.5°	629.8	592.0	605.3	654.4	1009.5	1215.0	1159.3	1083.3	1304.3	1032.0
85°	348.5	413.2	431.0	473.4	777.3	1016.3	960.4	864.3	775.1	761.7
87.5°	207.7	245.6	252.5	283.7	522.6	734.9	650.0	616.4	511.5	509.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)