

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: P318314

Luminaire Tested: **GAN-SA0A-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38583 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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: 24 FT

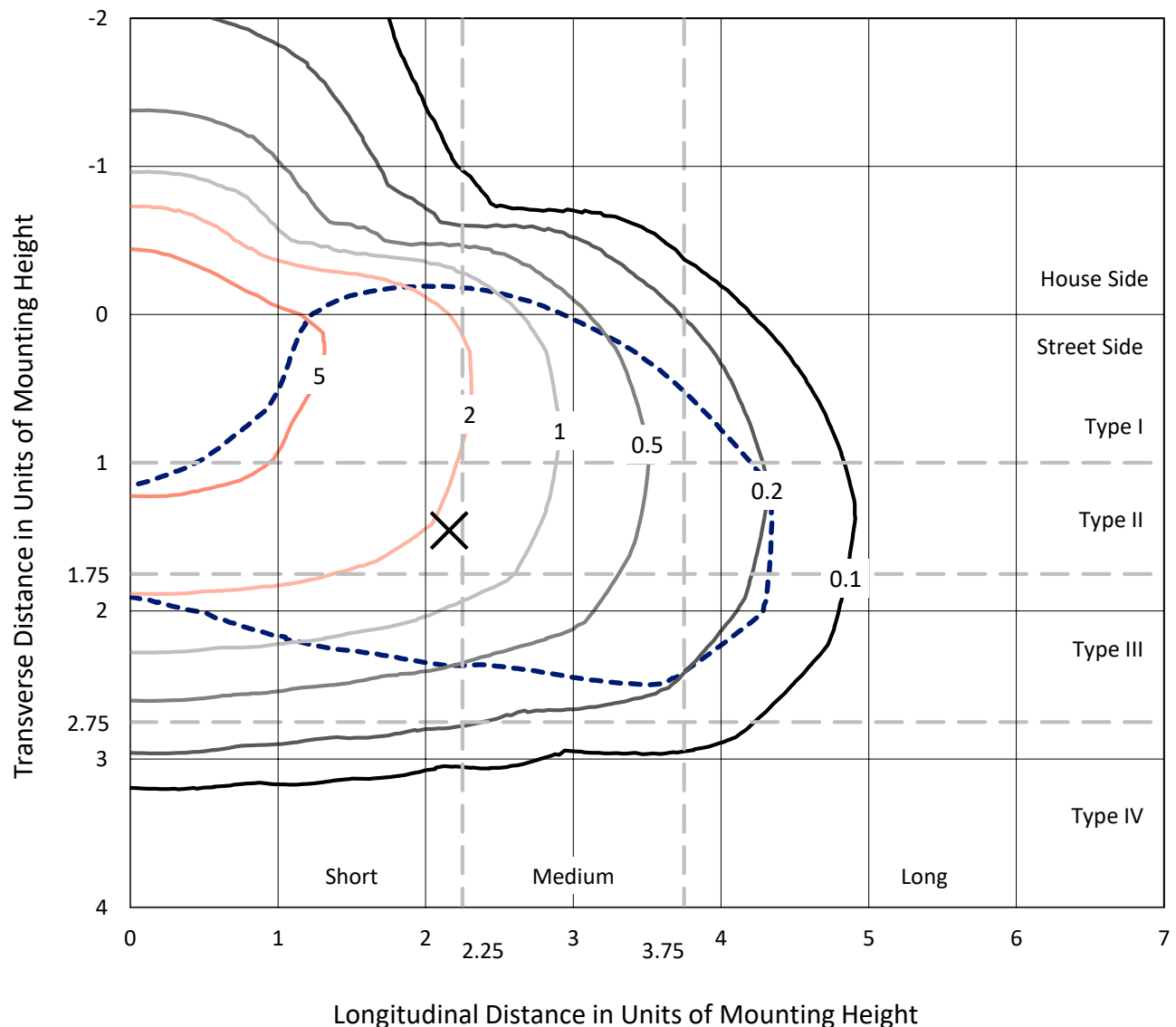


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Iso-Footcandle Lines of Horizontal Illumination

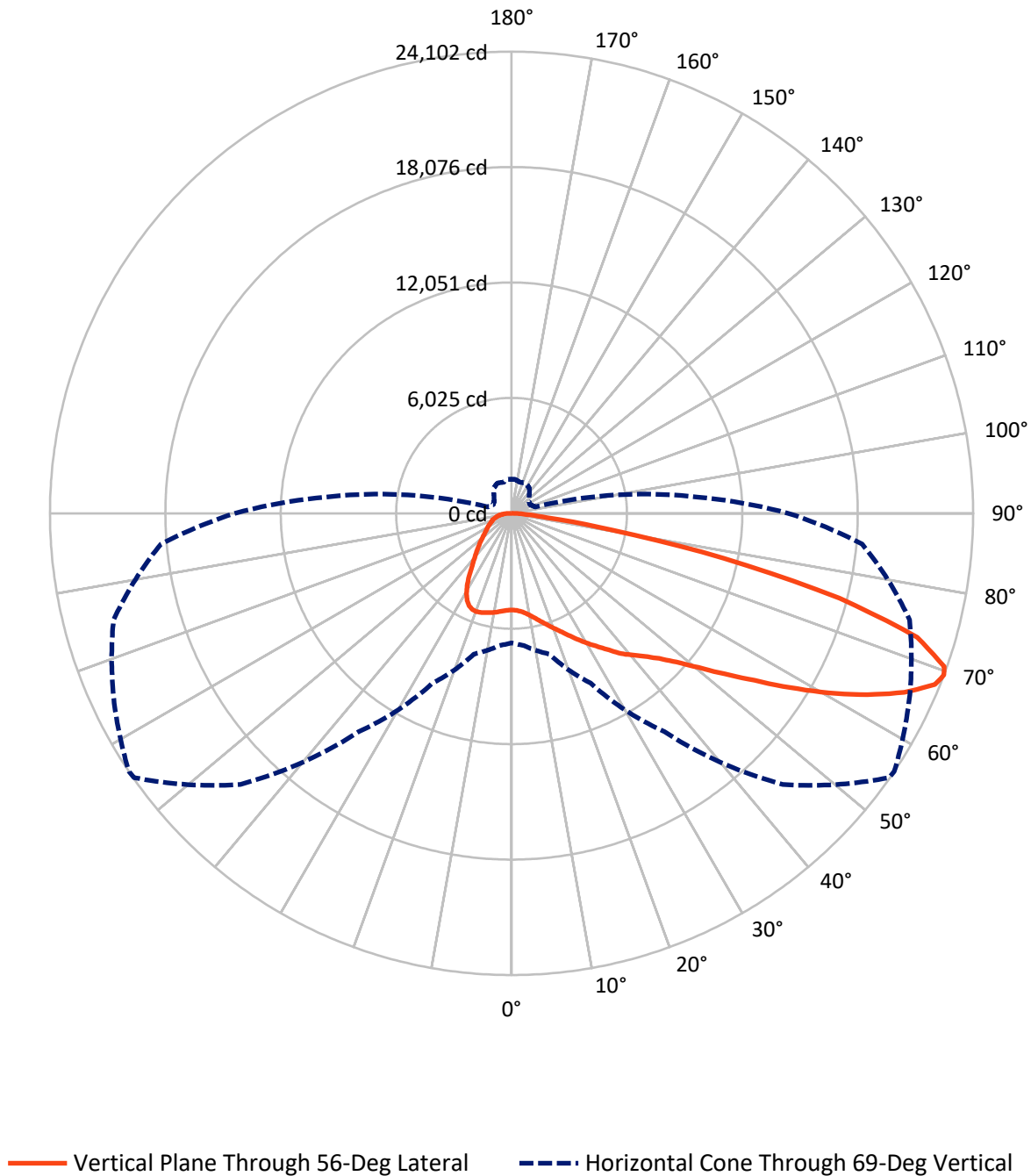
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8592.4	0.0	8592.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	29990.6	0.0	29990.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	38583.0	0.0	38583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.4	1.3
10°-20°	1593.1	4.1
20°-30°	2780.9	7.2
30°-40°	3994.6	10.4
40°-50°	5528.3	14.3
50°-60°	8099.8	21.0
60°-70°	9875.2	25.6
70°-80°	5459.6	14.2
80°-90°	756.2	2.0
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°	38583.0	100.0
0°-180°	38583.0	100.0

Coefficient of Utilization



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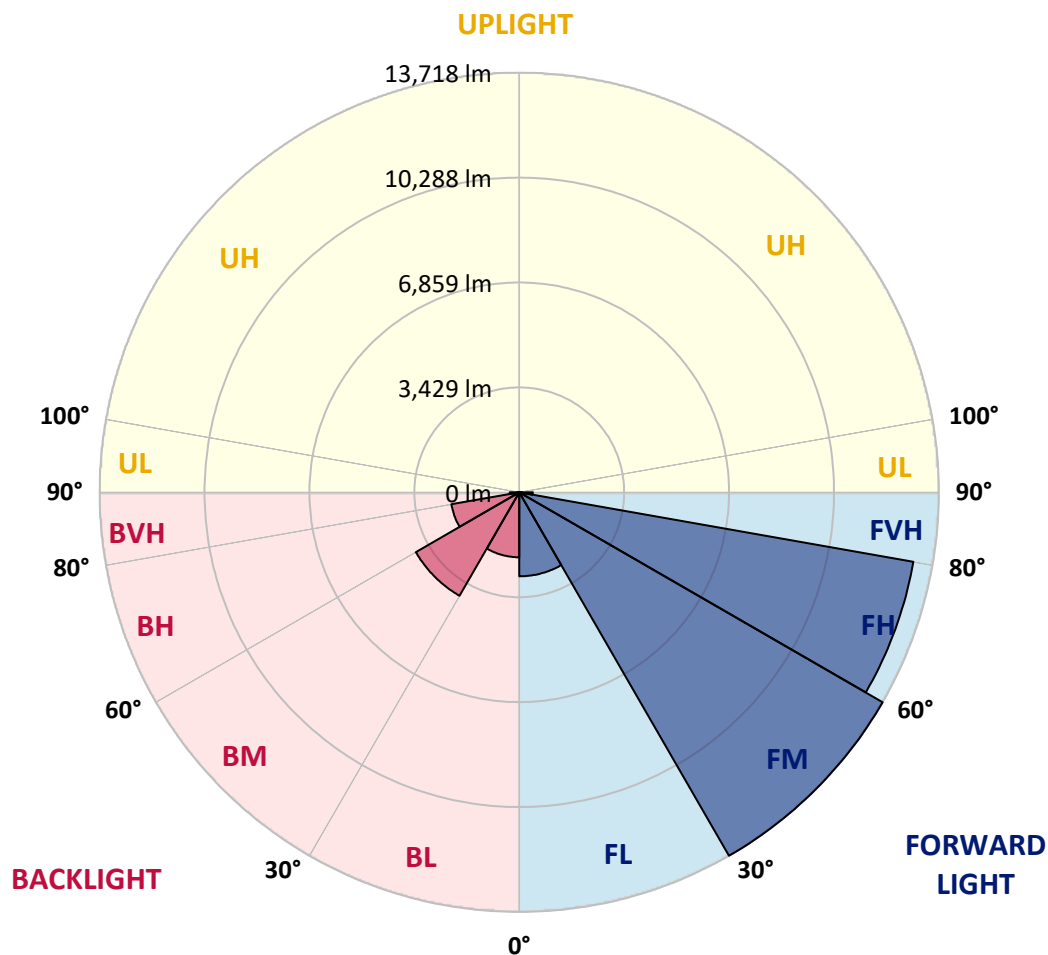
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2746.0	7.1			
FM	(30°-60°)	13717.7	35.6			
FH	(60°-80°)	13081.6	33.9			G5
FVH	(80°-90°)	445.4	1.2			G3/500
BL	(0°-30°)	2123.4	5.5	B3/2500		
BM	(30°-60°)	3905.0	10.1	B3/5000		
BH	(60°-80°)	2253.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	310.8	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°	56°	65°	75°	85°
0°	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1
2.5°	5076.0	5081.4	5077.4	5088.0	5076.0	5084.0	5077.4	5077.4	5073.4	5061.4	5048.1
5°	5155.8	5166.4	5159.8	5170.4	5155.8	5158.5	5146.5	5146.5	5134.5	5109.3	5082.7
7.5°	5280.7	5292.7	5287.4	5298.0	5278.1	5278.1	5262.1	5260.8	5236.9	5195.7	5165.1
10°	5429.6	5445.6	5440.2	5456.2	5440.2	5445.6	5429.6	5429.6	5397.7	5339.2	5300.7
12.5°	5646.3	5666.2	5651.6	5650.2	5643.6	5654.2	5640.9	5638.3	5609.0	5529.3	5476.1
15°	5936.0	5957.3	5926.7	5924.0	5886.8	5882.8	5882.8	5878.9	5860.2	5764.5	5676.8
17.5°	6269.6	6276.3	6249.7	6207.2	6159.3	6128.7	6124.8	6135.4	6135.4	6023.7	5884.2
20°	6596.6	6608.6	6587.3	6539.4	6478.3	6433.1	6401.2	6422.5	6421.2	6288.2	6090.2
22.5°	6952.8	6980.7	6948.8	6887.7	6815.9	6765.4	6709.6	6728.2	6729.5	6566.0	6292.2
25°	7414.0	7388.8	7368.8	7282.4	7180.1	7128.3	7076.4	7095.0	7089.7	6865.1	6500.9
27.5°	7822.1	7827.4	7800.8	7709.1	7590.8	7476.5	7473.8	7485.8	7465.9	7176.1	6697.6
30°	8296.6	8299.2	8262.0	8179.6	8050.7	7903.2	7868.6	7888.5	7846.0	7471.2	6905.0
32.5°	8768.4	8781.7	8740.5	8640.8	8537.2	8357.7	8288.6	8301.9	8195.6	7772.9	7119.0
35°	9181.8	9200.4	9187.1	9120.7	9007.7	8853.5	8771.1	8763.1	8631.5	8142.4	7402.1
37.5°	9603.2	9620.4	9605.8	9550.0	9504.8	9341.3	9297.4	9297.4	9068.8	8519.9	7762.3
40°	10036.5	10063.0	10045.8	9968.7	9930.1	9855.7	9750.7	9725.4	9478.2	8973.1	8349.8
42.5°	10439.2	10473.7	10542.9	10497.7	10419.3	10429.9	10218.6	10205.3	10024.5	9643.0	9087.4
45°	11010.7	11061.2	11178.2	11143.6	11127.7	11069.2	10818.0	10806.0	10736.9	10544.2	10003.2
47.5°	11634.1	11703.2	11914.6	11921.2	12092.7	11982.3	11640.7	11599.5	11615.5	11623.5	11121.0
50°	12208.3	12284.1	12631.0	12794.5	13198.5	13222.4	12676.2	12638.9	12701.4	12884.8	12423.6
52.5°	12666.9	12762.6	13195.9	13700.9	14393.4	14590.1	13950.8	13922.9	13969.4	14285.8	13896.3
55°	13003.1	13106.8	13578.7	14498.4	15604.3	15951.2	15418.2	15391.6	15420.9	15823.6	15498.0
57.5°	13081.6	13106.8	13791.3	15035.4	16626.4	17459.8	17213.9	17160.7	17017.2	17368.1	17265.7
60°	12713.4	12814.4	13615.9	15224.2	17417.3	18947.1	19090.7	19024.2	18621.5	18908.6	18826.2
62.5°	11966.4	12147.2	12960.6	14937.1	17727.0	20162.0	20931.5	20851.8	20158.0	20344.1	19948.0
65°	10746.2	10823.3	11678.0	13946.8	17333.5	20939.5	22573.1	22533.2	21659.9	21368.8	20155.3
67.5°	8563.8	8708.6	9434.3	11877.3	15723.9	20847.8	23842.4	23838.4	22640.8	21749.0	19420.3
69°	6765.4	6915.6	7606.8	9783.9	13913.6	20009.1	24055.1	24101.6	22917.3	21517.7	18370.3
70°	5393.7	5567.8	6042.3	8240.8	12306.7	18903.3	23878.3	23962.0	22864.1	21136.2	17401.3
72.5°	2295.5	2436.3	2773.9	4248.0	7500.4	14115.6	21832.7	22149.1	21632.0	19344.5	14381.5
75°	1002.2	1046.0	1198.9	1731.9	3329.5	7682.5	17103.6	17688.4	18496.5	16351.3	10713.0
77.5°	733.7	752.3	836.0	1016.8	1494.0	2901.5	10998.8	11339.0	13339.4	11898.6	6571.3
80°	567.5	580.8	646.0	747.0	975.6	1173.6	5016.2	5308.6	7500.4	6111.5	2736.7
82.5°	451.9	461.2	506.4	550.3	673.9	711.1	1665.4	1847.5	2768.6	1688.0	724.4
85°	420.0	430.6	446.6	401.4	432.0	417.4	720.4	753.6	836.0	663.2	303.0
87.5°	190.1	224.6	442.6	312.4	229.9	183.4	295.1	308.4	346.9	348.2	134.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1	5044.1
2.5°	5056.1	5052.1	5058.8	5042.8	5062.8	5061.4	5054.8	5057.4	5070.7	5069.4	5070.7
5°	5086.7	5084.0	5092.0	5080.0	5104.0	5111.9	5113.3	5125.2	5139.8	5143.8	5143.8
7.5°	5163.8	5163.8	5167.8	5151.8	5167.8	5166.4	5159.8	5171.7	5186.4	5187.7	5186.4
10°	5296.7	5298.0	5291.4	5250.2	5236.9	5201.0	5167.8	5169.1	5187.7	5202.3	5206.3
12.5°	5464.2	5458.8	5429.6	5353.8	5298.0	5224.9	5190.4	5189.0	5207.6	5219.6	5223.6
15°	5655.6	5640.9	5565.2	5441.6	5343.2	5271.4	5215.6	5202.3	5191.7	5178.4	5179.7
17.5°	5836.3	5803.1	5676.8	5505.4	5401.7	5306.0	5198.3	5111.9	5052.1	5017.6	5006.9
20°	6019.7	5954.6	5772.5	5565.2	5433.6	5259.5	5052.1	4876.7	4767.7	4717.2	4707.9
22.5°	6187.2	6082.2	5861.6	5627.6	5408.3	5102.6	4777.0	4521.8	4370.3	4302.5	4307.8
25°	6350.7	6204.5	5954.6	5671.5	5280.7	4826.2	4394.2	4080.5	3905.1	3829.3	3826.6
27.5°	6494.3	6328.1	6055.6	5635.6	5042.8	4432.7	3940.9	3635.2	3489.0	3423.9	3413.3
30°	6659.1	6483.6	6189.9	5498.7	4694.6	3978.2	3498.3	3283.0	3179.3	3114.2	3102.2
32.5°	6859.8	6695.0	6300.2	5250.2	4249.3	3503.7	3152.8	3002.6	2908.2	2835.1	2821.8
35°	7152.2	6974.1	6328.1	4894.0	3760.2	3128.8	2898.9	2744.7	2617.1	2522.7	2513.4
37.5°	7519.0	7323.6	6264.3	4432.7	3285.7	2885.6	2687.6	2497.5	2331.3	2198.4	2177.2
40°	8048.0	7753.0	6087.5	3901.1	2936.1	2698.2	2481.5	2264.9	2058.9	1903.4	1872.8
42.5°	8683.4	8256.7	5816.4	3372.1	2679.6	2508.1	2276.8	2008.4	1811.6	1701.3	1685.4
45°	9491.5	8780.4	5440.2	2909.5	2427.0	2318.0	2056.2	1809.0	1686.7	1605.6	1592.3
47.5°	10413.9	9367.9	5045.5	2533.4	2213.0	2139.9	1879.4	1719.9	1622.9	1559.1	1547.1
50°	11547.7	10031.1	4626.8	2225.0	1997.7	1925.9	1795.7	1670.7	1593.7	1544.5	1532.5
52.5°	12826.4	10779.5	4325.1	1981.8	1819.6	1767.8	1751.8	1644.2	1581.7	1544.5	1532.5
55°	14203.4	11541.1	3999.4	1777.1	1665.4	1680.1	1722.6	1646.8	1604.3	1559.1	1541.8
57.5°	15581.7	12327.9	3636.6	1604.3	1543.1	1614.9	1702.6	1652.1	1616.3	1572.4	1556.4
60°	16671.6	12826.4	3074.3	1459.4	1446.1	1543.1	1654.8	1612.3	1565.7	1567.1	1564.4
62.5°	17180.7	12799.8	2453.6	1330.5	1349.1	1446.1	1577.7	1549.8	1511.3	1563.1	1567.1
65°	16894.9	12161.8	1910.0	1213.5	1245.4	1345.1	1498.0	1519.2	1532.5	1632.2	1645.5
67.5°	15696.0	10920.3	1479.4	1111.2	1151.0	1276.0	1505.9	1654.8	1672.1	1777.1	1775.8
69°	14455.9	9756.0	1285.3	1058.0	1104.5	1293.3	1609.6	1741.2	1676.1	1787.7	1771.8
70°	13416.5	8834.9	1181.6	1022.1	1083.3	1323.8	1678.7	1739.9	1656.1	1751.8	1725.2
72.5°	10332.9	6356.0	1002.2	955.7	1011.5	1266.7	1698.7	1701.3	1609.6	1628.2	1583.0
75°	7087.1	4016.7	874.6	865.3	902.5	1141.7	1634.9	1625.6	1488.7	1462.1	1424.9
77.5°	3907.7	2040.3	743.0	778.9	804.1	1011.5	1486.0	1472.7	1359.7	1303.9	1290.6
80°	1507.3	893.2	627.4	692.5	708.4	875.9	1302.6	1290.6	1196.2	1124.5	1104.5
82.5°	568.9	467.9	518.4	599.4	594.1	723.1	1103.2	1096.6	1004.8	899.8	867.9
85°	263.2	280.5	410.7	494.4	455.9	535.6	882.6	894.5	782.9	657.9	657.9
87.5°	111.6	156.8	291.1	373.5	307.0	361.5	647.3	618.1	567.5	393.4	369.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)