

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: P319002

Luminaire Tested: **GAN-SA8B-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41418 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

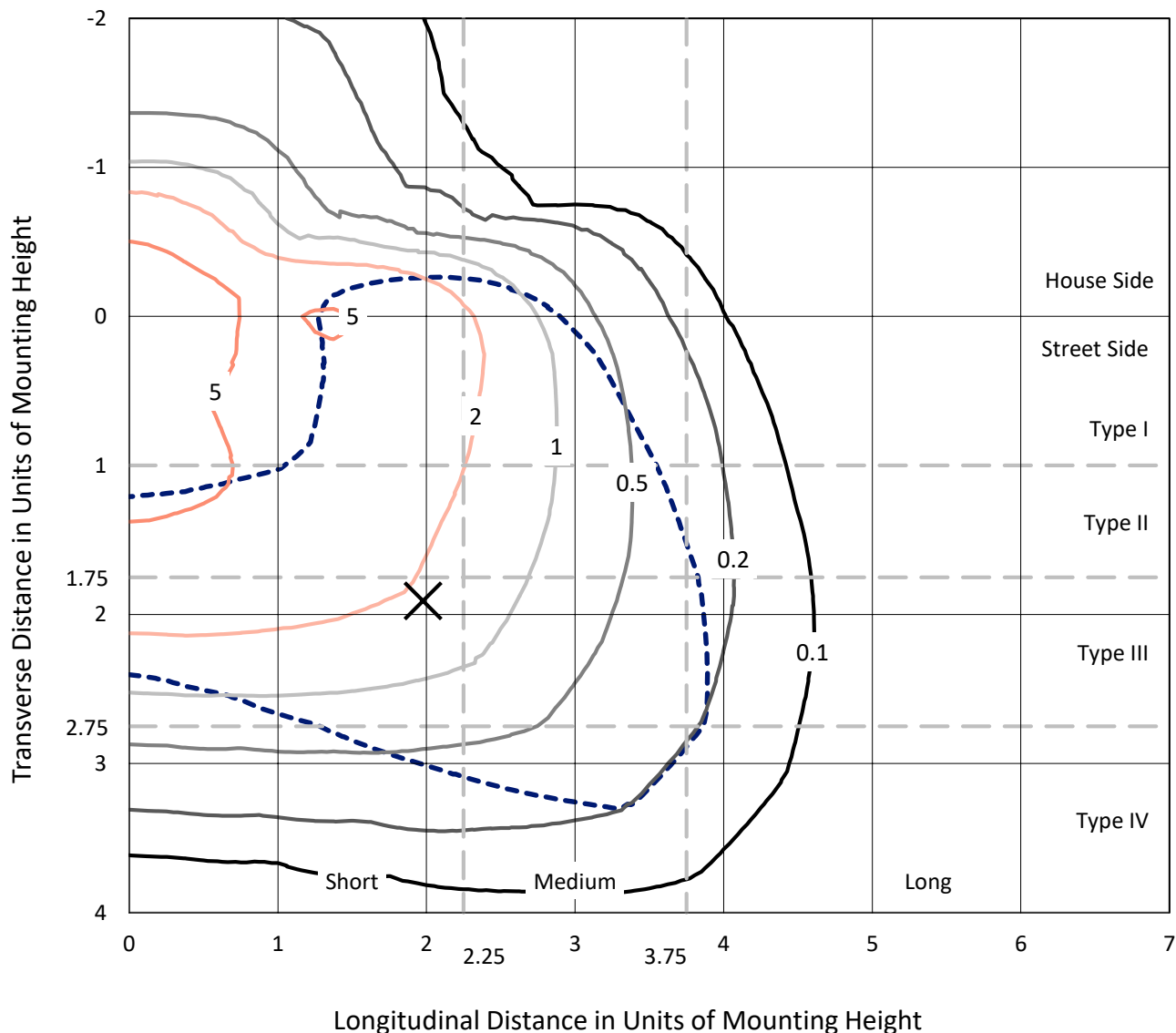
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

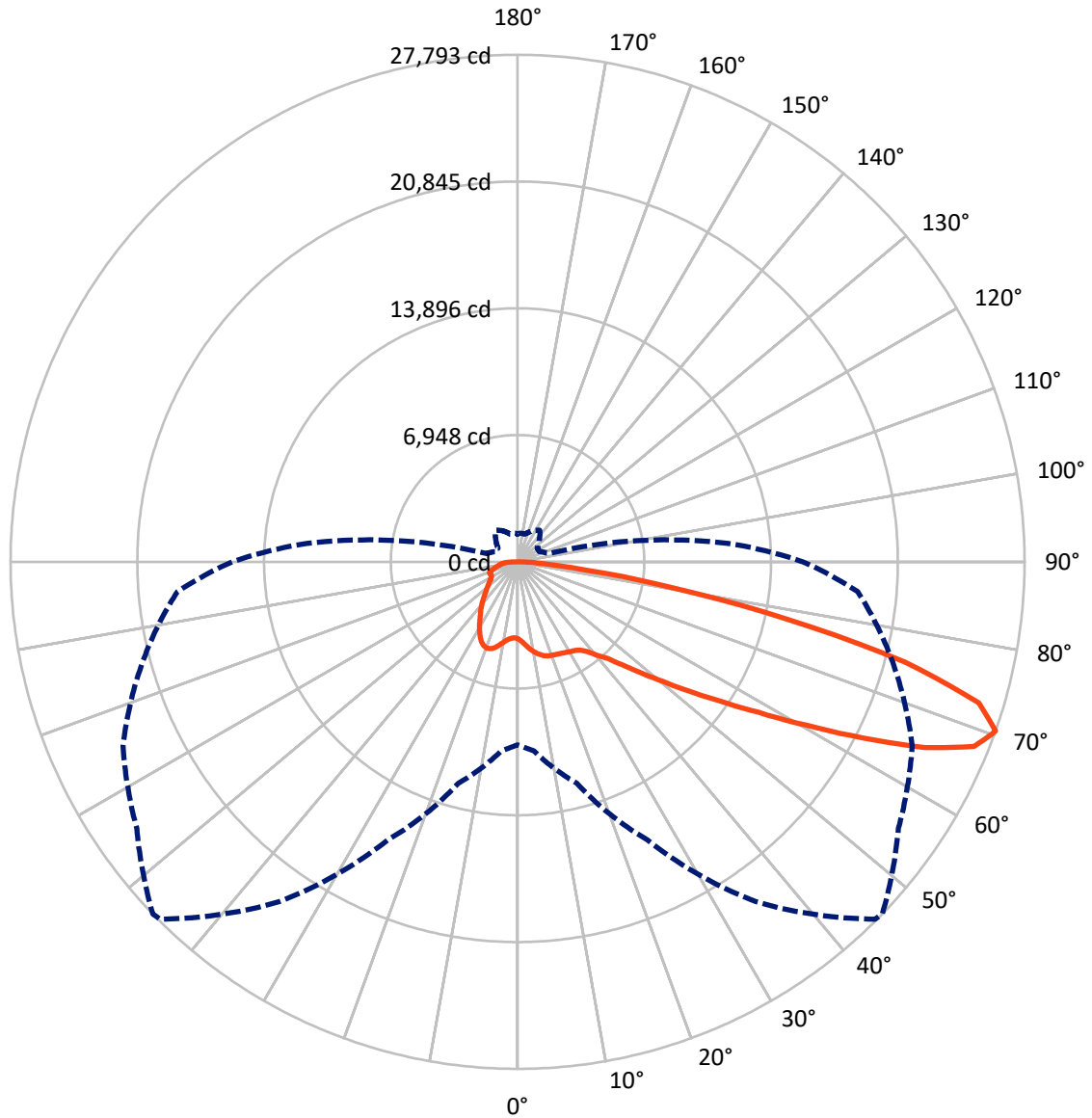
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9492.9	0.0	9492.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	31925.1	0.0	31925.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	41418.0	0.0	41418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.2	1.0
10°-20°	1433.2	3.5
20°-30°	2389.7	5.8
30°-40°	3391.1	8.2
40°-50°	4988.1	12.0
50°-60°	8447.3	20.4
60°-70°	11990.8	29.0
70°-80°	7284.5	17.6
80°-90°	1063.1	2.6
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°	41418.0	100.0
0°-180°	41418.0	100.0

Coefficient of Utilization



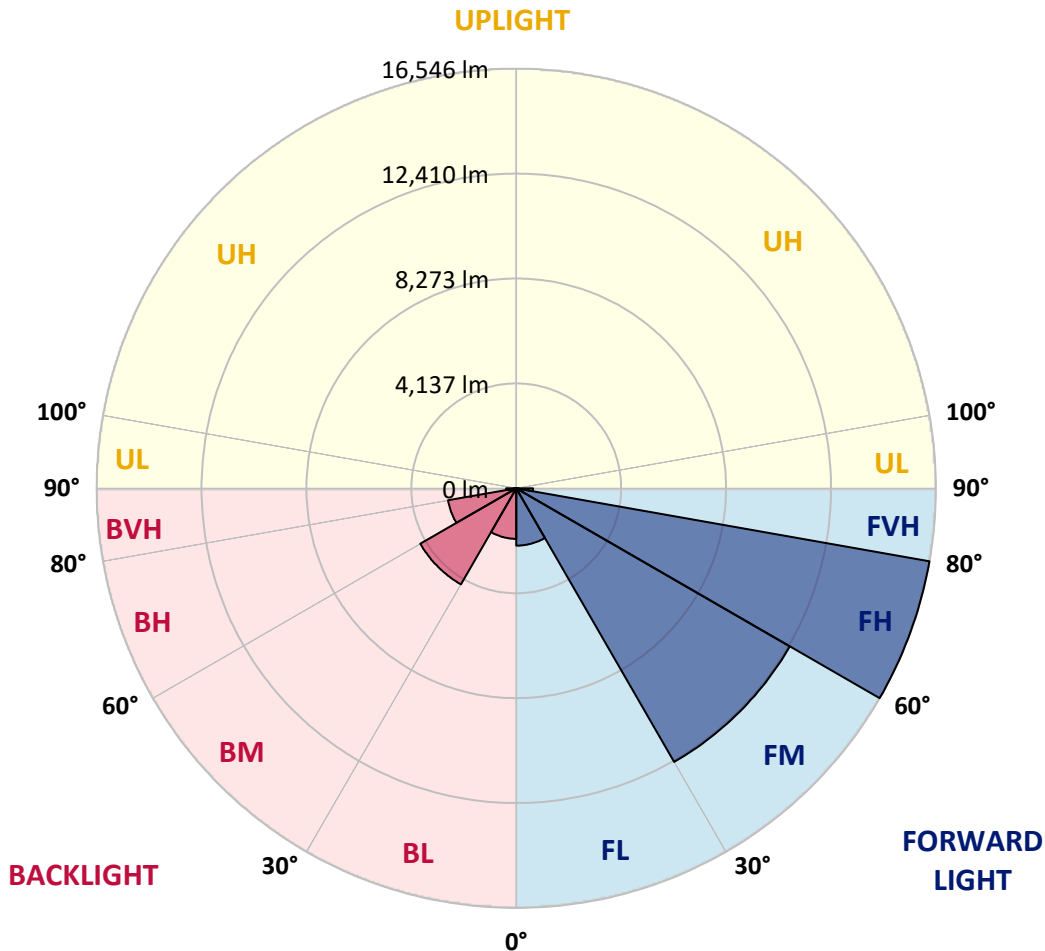
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2260.0	5.5			
FM (30°-60°)	12456.7	30.1			
FH (60°-80°)	16546.3	39.9			G5
FVH (80°-90°)	662.2	1.6			G4/750
BL (0°-30°)	1993.1	4.8	B3/2500		
BM (30°-60°)	4369.8	10.6	B3/5000		
BH (60°-80°)	2729.1	6.6	B4/5000		G4/5000
BVH (80°-90°)	400.9	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7
2.5°	4430.9	4433.7	4439.4	4425.2	4385.5	4374.2	4369.9	4328.8	4301.9	4262.2	4228.2
5°	4785.2	4788.1	4779.6	4739.9	4652.0	4586.8	4581.1	4487.6	4402.5	4311.8	4243.8
7.5°	5155.2	5159.4	5132.5	5057.4	4934.1	4820.7	4813.6	4686.0	4557.0	4419.5	4317.5
10°	5482.6	5465.6	5421.7	5316.8	5170.8	5031.9	5026.2	4893.0	4744.1	4578.3	4442.2
12.5°	5700.9	5686.7	5630.0	5502.5	5342.3	5214.7	5203.4	5080.1	4935.5	4754.1	4591.0
15°	5821.4	5831.3	5754.8	5610.2	5454.3	5346.5	5336.6	5248.7	5119.8	4936.9	4749.8
17.5°	5837.0	5845.5	5771.8	5628.6	5501.0	5427.3	5423.1	5365.0	5271.4	5095.7	4900.0
20°	5746.3	5751.9	5691.0	5573.3	5489.7	5467.0	5465.6	5440.1	5370.6	5214.7	5024.8
22.5°	5614.4	5618.7	5574.7	5489.7	5461.4	5496.8	5506.7	5496.8	5447.2	5301.2	5122.6
25°	5581.8	5579.0	5533.6	5447.2	5471.3	5546.4	5559.2	5563.4	5529.4	5401.8	5247.3
27.5°	5739.2	5729.2	5642.8	5503.9	5519.5	5610.2	5627.2	5668.3	5647.0	5535.1	5389.1
30°	6194.2	6177.2	6000.0	5719.3	5642.8	5689.6	5710.8	5776.0	5780.3	5686.7	5577.6
32.5°	6962.4	6941.1	6623.6	6121.9	5851.1	5770.3	5790.2	5888.0	5940.4	5868.2	5750.5
35°	7933.3	7909.2	7492.5	6806.5	6199.8	5924.8	5939.0	6017.0	6121.9	6019.8	5863.9
37.5°	8945.4	8887.3	8486.1	7611.6	6754.0	6255.1	6255.1	6265.0	6314.6	6102.0	5997.1
40°	9951.8	9893.6	9530.8	8558.4	7471.3	6775.3	6742.7	6523.0	6483.3	6300.5	6265.0
42.5°	10887.3	10870.3	10656.2	9628.6	8313.2	7287.0	7241.6	6868.9	6877.4	6764.0	6765.4
45°	11882.3	11882.3	11708.0	10708.7	9294.1	8109.1	8063.7	7515.2	7600.2	7547.8	7674.0
47.5°	12694.5	12720.0	12695.9	11834.1	10435.1	9153.8	9071.5	8411.0	8649.1	8829.2	9196.3
50°	13523.7	13563.4	13567.6	13068.7	11814.3	10395.4	10301.9	9600.2	10131.8	10647.7	11369.2
52.5°	14727.1	14816.4	14460.6	14300.4	13503.8	11869.5	11777.4	11129.6	12017.0	12741.3	13984.3
55°	15842.6	15764.6	15510.9	15610.1	15312.5	13547.8	13478.3	12909.9	14117.6	15058.8	16673.2
57.5°	16446.4	16440.7	16695.9	17121.1	17262.9	15617.2	15559.1	15006.3	16486.1	17193.4	19197.6
60°	17155.1	17165.1	17797.2	18762.5	19346.5	18194.1	18168.6	17749.0	18786.6	19186.3	21177.8
62.5°	17254.4	17432.9	18521.5	20182.8	21296.9	21204.7	21261.4	20219.6	20844.7	20776.7	22656.2
65°	16113.3	16348.6	18318.8	20612.2	23235.9	24497.4	24549.9	22704.4	22467.7	22136.0	23184.9
67.5°	13774.6	14123.3	16263.6	19678.2	23875.2	26931.1	27004.8	24630.6	23814.2	22596.6	21912.0
70°	10024.1	10411.0	12565.5	16806.4	22735.5	27709.3	27792.9	25482.5	23865.2	21285.5	18705.8
72.5°	6055.3	6358.6	8134.6	12372.7	19189.1	26291.9	26440.7	24402.4	21788.7	18029.7	13812.8
75°	2659.1	2857.5	3933.4	7129.7	13737.7	21753.3	21939.0	20887.2	17703.7	13102.7	8164.4
77.5°	1132.5	1189.2	1613.0	3097.1	7766.1	14864.6	15119.7	15261.4	12011.3	7129.7	3450.0
80°	705.9	728.6	912.8	1401.8	3634.3	8348.7	8623.6	8979.4	5964.5	2620.8	1204.8
82.5°	429.5	455.0	606.7	847.6	1892.3	3784.5	3916.4	4167.2	2314.7	1132.5	623.7
85°	258.0	276.4	371.4	535.8	1077.2	1488.3	1486.9	1644.2	1090.0	728.6	328.8
87.5°	123.3	137.5	198.4	277.8	542.9	558.5	523.0	592.5	661.9	477.7	165.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7	4219.7
2.5°	4216.8	4211.2	4192.8	4178.6	4175.7	4167.2	4160.2	4164.4	4170.1	4171.5	4171.5
5°	4215.4	4199.8	4175.7	4165.8	4178.6	4195.6	4216.8	4245.2	4262.2	4275.0	4283.5
7.5°	4283.5	4253.7	4226.8	4221.1	4246.6	4292.0	4340.2	4399.7	4440.8	4469.2	4474.8
10°	4396.9	4360.0	4333.1	4338.7	4384.1	4449.3	4517.3	4593.9	4656.3	4694.5	4697.4
12.5°	4527.3	4491.8	4466.3	4490.4	4565.5	4644.9	4715.8	4782.4	4839.1	4877.4	4877.4
15°	4677.5	4652.0	4622.2	4677.5	4779.6	4850.4	4880.2	4912.8	4944.0	4972.3	4966.7
17.5°	4822.1	4798.0	4782.4	4847.6	4953.9	4986.5	4966.7	4942.6	4942.6	4958.2	4961.0
20°	4946.8	4925.6	4935.5	4999.3	5054.5	5020.5	4946.8	4870.3	4839.1	4847.6	4856.1
22.5°	5056.0	5046.0	5075.8	5105.6	5065.9	4946.8	4810.8	4707.3	4669.0	4666.2	4669.0
25°	5183.5	5182.1	5219.0	5165.1	4989.3	4769.6	4586.8	4486.2	4464.9	4481.9	4510.3
27.5°	5342.3	5357.9	5376.3	5179.3	4833.4	4501.8	4316.1	4246.6	4267.9	4309.0	4335.9
30°	5545.0	5587.5	5547.8	5143.8	4609.5	4195.6	4018.4	3998.6	4056.7	4114.8	4143.1
32.5°	5742.0	5808.6	5712.2	5051.7	4320.3	3871.0	3733.5	3727.8	3798.7	3855.4	3895.1
35°	5900.8	6032.6	5835.6	4868.9	3985.8	3571.9	3471.3	3433.0	3458.5	3525.1	3570.5
37.5°	6107.7	6327.4	5920.6	4589.6	3622.9	3325.3	3207.6	3119.8	3097.1	3124.0	3146.7
40°	6486.2	6776.7	5960.3	4199.8	3268.6	3078.7	2959.6	2830.6	2741.3	2676.1	2677.5
42.5°	7104.1	7362.1	5934.8	3726.4	2941.2	2837.7	2703.0	2554.2	2409.6	2262.2	2250.9
45°	8107.7	8232.4	5858.2	3224.6	2653.4	2585.4	2459.2	2310.4	2117.6	1950.4	1934.8
47.5°	9713.6	9437.2	5739.2	2786.7	2399.7	2371.4	2255.1	2083.6	1879.5	1744.9	1733.5
50°	11903.6	11176.4	5681.1	2438.0	2175.8	2184.3	2089.3	1907.9	1715.1	1615.9	1604.5
52.5°	14523.0	13201.9	5793.0	2168.7	1995.7	2025.5	1954.6	1784.5	1623.0	1545.0	1533.7
55°	17240.2	15299.7	5913.5	1973.1	1825.6	1883.8	1859.7	1719.3	1573.3	1501.1	1491.1
57.5°	19566.2	16866.0	5672.5	1814.3	1674.0	1764.7	1786.0	1678.2	1547.8	1482.6	1471.3
60°	21030.4	17496.7	5040.4	1665.5	1553.5	1669.7	1743.4	1666.9	1557.8	1552.1	1543.6
62.5°	21724.9	17441.5	4092.1	1547.8	1478.4	1628.6	1774.6	1730.7	1671.1	1722.2	1726.4
65°	21413.1	16608.0	3047.5	1469.9	1424.5	1644.2	1868.2	1851.2	1703.7	1754.8	1761.9
67.5°	19360.7	14619.4	2256.5	1401.8	1365.0	1688.2	2038.3	1890.8	1640.0	1676.8	1654.1
70°	15648.4	11590.3	1740.6	1325.3	1304.0	1682.5	2114.8	1866.8	1570.5	1579.0	1518.1
72.5°	10790.9	7903.6	1416.0	1254.4	1216.2	1533.7	2060.9	1807.2	1512.4	1447.2	1366.4
75°	5868.2	4242.4	1203.4	1180.7	1061.7	1346.6	1961.7	1764.7	1460.0	1373.5	1328.1
77.5°	2309.0	1760.4	1044.6	1080.1	928.4	1189.2	1851.2	1683.9	1387.7	1274.3	1251.6
80°	942.6	898.6	866.0	934.1	798.0	1040.4	1717.9	1588.9	1301.2	1182.1	1136.8
82.5°	534.4	558.5	673.3	737.1	647.8	958.2	1654.1	1512.4	1197.7	1058.8	1005.0
85°	273.6	327.4	469.2	528.7	476.3	815.0	1523.7	1323.9	961.0	810.8	815.0
87.5°	131.8	182.8	296.2	331.7	309.0	589.7	1138.2	959.6	748.4	592.5	574.1
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)