

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: P319003

Luminaire Tested: **GAN-SA9B-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319003
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-SA9B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 46201 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

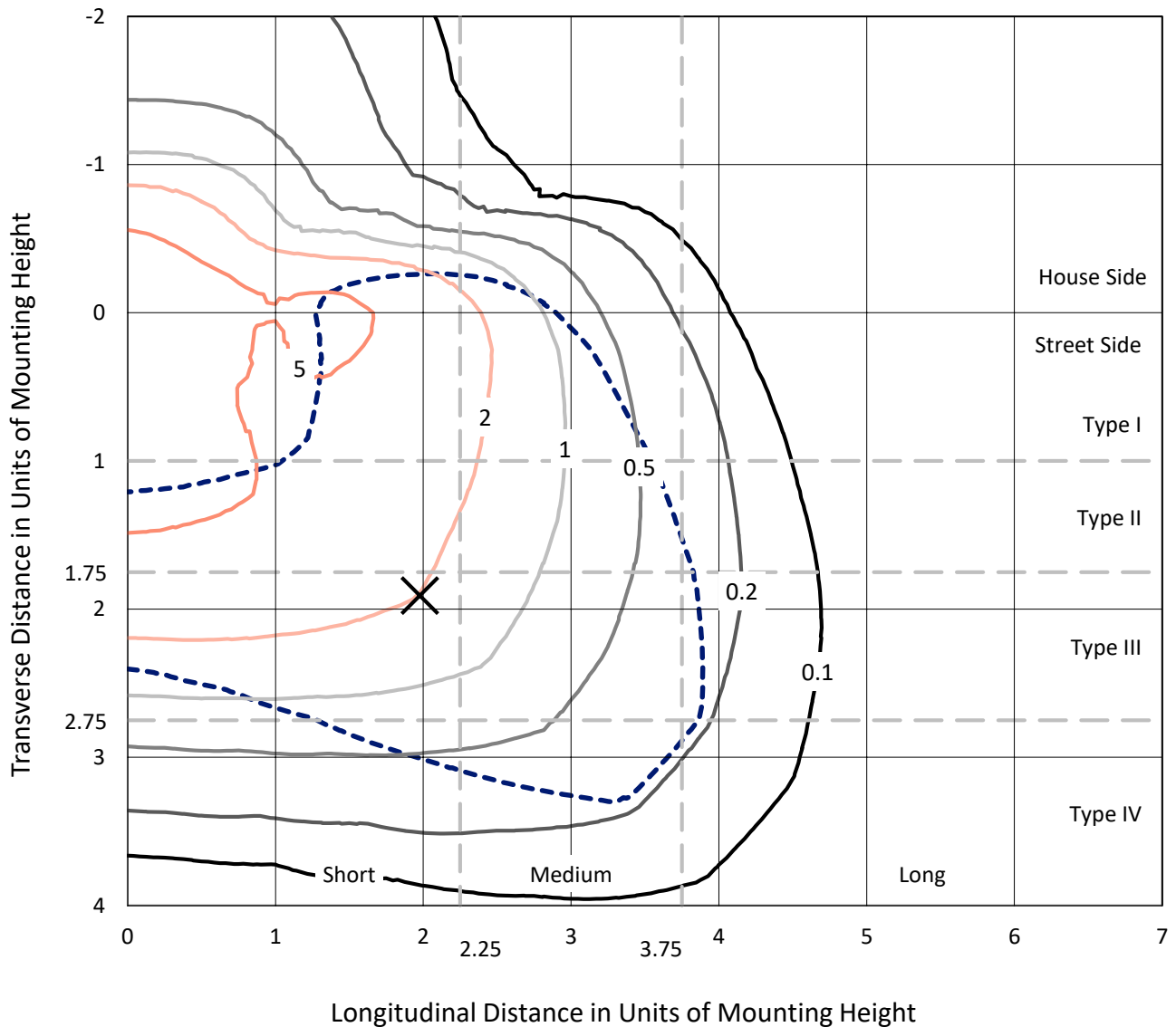
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

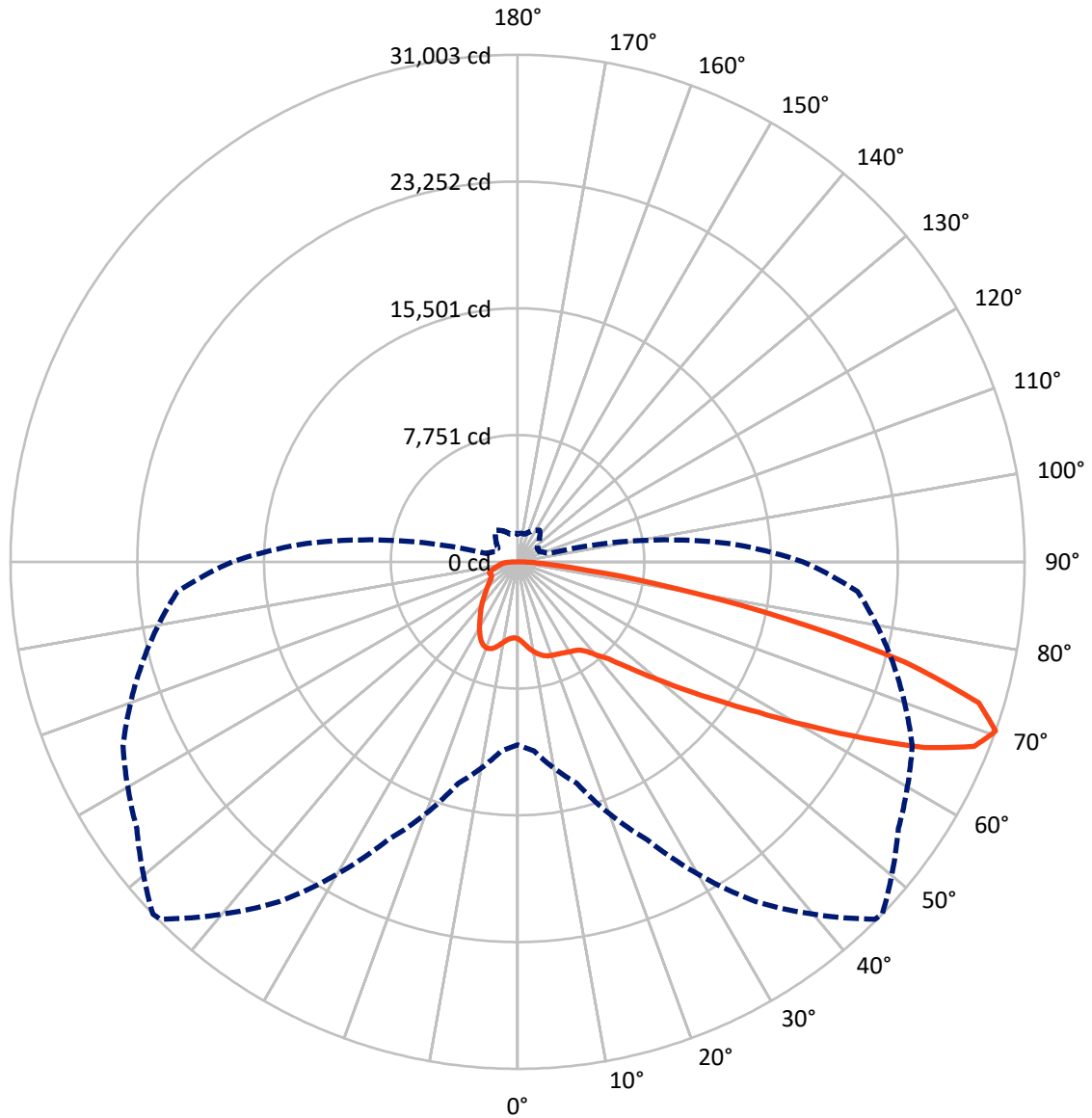
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	10589.1	0.0	10589.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	35611.9	0.0	35611.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	46201.0	0.0	46201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.8	1.0
10°-20°	1598.7	3.5
20°-30°	2665.6	5.8
30°-40°	3782.7	8.2
40°-50°	5564.1	12.0
50°-60°	9422.8	20.4
60°-70°	13375.6	29.0
70°-80°	8125.8	17.6
80°-90°	1185.9	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°	46201.0	100.0
0°-180°	46201.0	100.0

Coefficient of Utilization

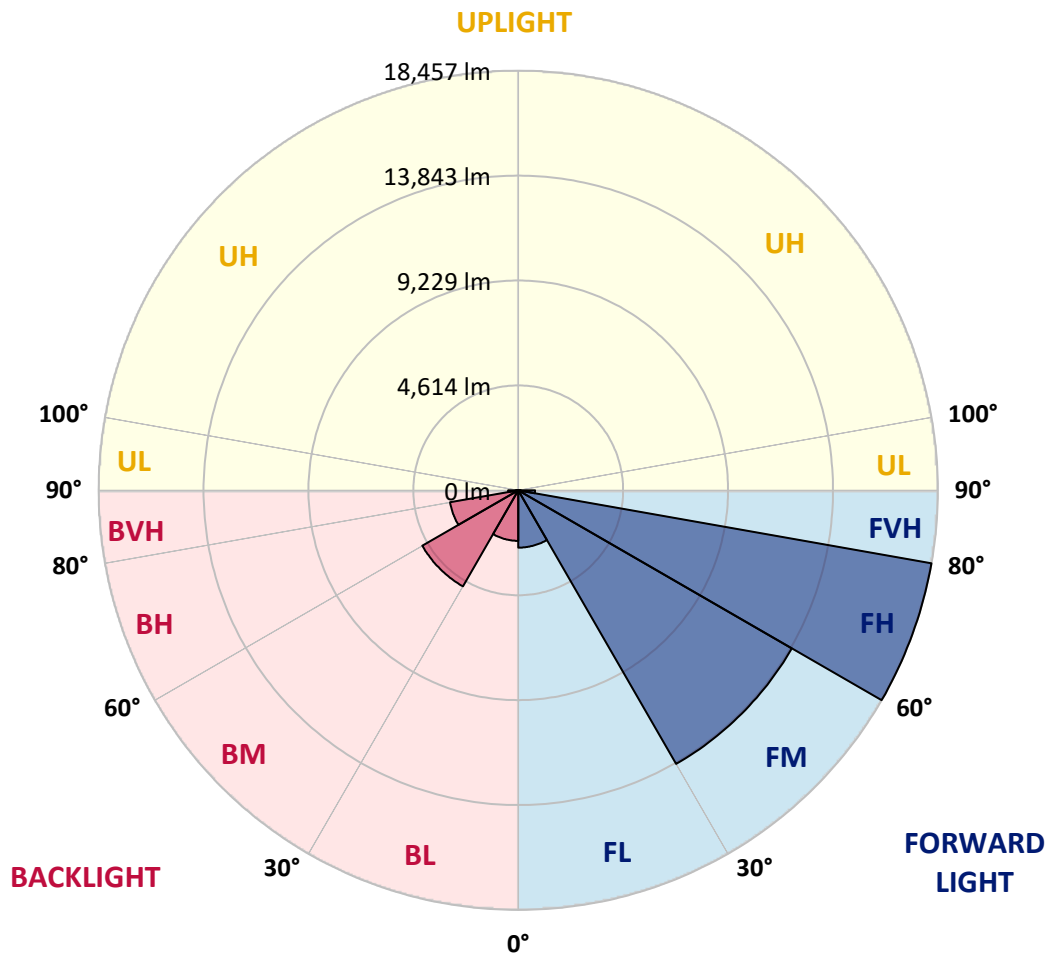


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2520.9	5.5			
FM (30°-60°)	13895.2	30.1			
FH (60°-80°)	18457.0	39.9			G5
FVH (80°-90°)	738.7	1.6			G4/750
BL (0°-30°)	2223.2	4.8	B3/2500		
BM (30°-60°)	4874.5	10.6	B3/5000		
BH (60°-80°)	3044.3	6.6	B4/5000		G4/5000
BVH (80°-90°)	447.2	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°	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0
2.5°	4942.6	4945.7	4952.1	4936.2	4892.0	4879.3	4874.6	4828.7	4798.7	4754.4	4716.5
5°	5337.8	5341.0	5331.5	5287.2	5189.2	5116.5	5110.2	5005.8	4910.9	4809.8	4733.9
7.5°	5750.5	5755.3	5725.2	5641.4	5503.9	5377.4	5369.5	5227.2	5083.3	4929.9	4816.1
10°	6115.8	6096.8	6047.8	5930.8	5767.9	5613.0	5606.6	5458.0	5292.0	5107.0	4955.2
12.5°	6359.2	6343.4	6280.2	6137.9	5959.2	5816.9	5804.3	5666.7	5505.4	5303.1	5121.2
15°	6493.6	6504.7	6419.3	6258.1	6084.1	5964.0	5952.9	5854.9	5711.0	5507.0	5298.3
17.5°	6511.0	6520.5	6438.3	6278.6	6136.3	6054.1	6049.3	5984.5	5880.2	5684.1	5465.9
20°	6409.8	6416.2	6348.2	6216.9	6123.7	6098.4	6096.8	6068.3	5990.8	5816.9	5605.1
22.5°	6262.8	6267.5	6218.5	6123.7	6092.0	6131.6	6142.6	6131.6	6076.2	5913.4	5714.1
25°	6226.4	6223.3	6172.7	6076.2	6103.1	6186.9	6201.1	6205.9	6167.9	6025.6	5853.3
27.5°	6401.9	6390.9	6294.4	6139.5	6156.9	6258.1	6277.0	6322.9	6299.2	6174.3	6011.4
30°	6909.5	6890.5	6692.9	6379.8	6294.4	6346.6	6370.3	6443.0	6447.8	6343.4	6221.7
32.5°	7766.4	7742.7	7388.5	6828.8	6526.8	6436.7	6458.9	6567.9	6626.5	6545.8	6414.6
35°	8849.5	8822.6	8357.8	7592.5	6915.8	6609.1	6624.9	6711.8	6828.8	6715.0	6541.1
37.5°	9978.4	9913.6	9466.1	8490.6	7534.0	6977.5	6977.5	6988.5	7043.9	6806.7	6689.7
40°	11101.0	11036.2	10631.4	9546.8	8334.1	7557.7	7521.4	7276.3	7232.0	7028.1	6988.5
42.5°	12144.5	12125.6	11886.8	10740.5	9273.2	8128.5	8077.9	7662.1	7671.6	7545.1	7546.7
45°	13254.5	13254.5	13060.0	11945.3	10367.4	9045.6	8995.0	8383.1	8477.9	8419.4	8560.2
47.5°	14160.5	14188.9	14162.0	13200.7	11640.2	10210.8	10119.1	9382.3	9648.0	9848.8	10258.3
50°	15085.4	15129.7	15134.4	14577.9	13178.6	11595.9	11491.5	10708.9	11301.8	11877.3	12682.1
52.5°	16427.8	16527.4	16130.5	15951.9	15063.3	13240.3	13137.5	12414.9	13404.7	14212.6	15599.3
55°	17672.1	17585.2	17302.1	17412.8	17080.8	15112.3	15034.8	14400.8	15747.9	16797.8	18598.6
57.5°	18345.7	18339.3	18623.9	19098.3	19256.4	17420.7	17355.9	16739.3	18389.9	19178.9	21414.6
60°	19136.2	19147.3	19852.5	20929.2	21580.6	20295.2	20266.7	19798.7	20956.1	21402.0	23623.4
62.5°	19246.9	19446.1	20660.4	22513.5	23756.2	23653.5	23716.7	22554.6	23251.9	23176.0	25272.5
65°	17974.1	18236.6	20434.3	22992.6	25919.2	27326.4	27384.9	25326.3	25062.2	24692.3	25862.3
67.5°	15365.3	15754.2	18141.7	21950.6	26632.3	30041.2	30123.4	27475.0	26564.3	25206.1	24442.4
70°	11181.6	11613.3	14016.6	18747.3	25361.1	30909.2	31002.5	28425.3	26621.2	23743.6	20866.0
72.5°	6754.5	7092.9	9074.0	13801.5	21405.1	29328.1	29494.1	27220.5	24304.9	20111.8	15408.0
75°	2966.2	3187.5	4387.6	7953.0	15324.2	24265.4	24472.5	23299.3	19748.1	14615.8	9107.2
77.5°	1263.3	1326.6	1799.3	3454.7	8662.9	16581.1	16865.7	17023.9	13398.4	7953.0	3848.4
80°	787.4	812.7	1018.2	1563.7	4054.0	9312.8	9619.5	10016.4	6653.3	2923.5	1343.9
82.5°	479.1	507.5	676.7	945.5	2110.8	4221.6	4368.6	4648.5	2582.0	1263.3	695.7
85°	287.8	308.3	414.3	597.7	1201.6	1660.2	1658.6	1834.1	1215.9	812.7	366.8
87.5°	137.6	153.4	221.4	309.9	605.6	623.0	583.4	660.9	738.4	532.8	185.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0
2.5°	4703.8	4697.5	4676.9	4661.1	4658.0	4648.5	4640.6	4645.3	4651.6	4653.2	4653.2
5°	4702.2	4684.8	4658.0	4646.9	4661.1	4680.1	4703.8	4735.4	4754.4	4768.6	4778.1
7.5°	4778.1	4744.9	4714.9	4708.6	4737.0	4787.6	4841.4	4907.8	4953.6	4985.3	4991.6
10°	4904.6	4863.5	4833.5	4839.8	4890.4	4963.1	5039.0	5124.4	5194.0	5236.7	5239.8
12.5°	5050.1	5010.6	4982.1	5009.0	5092.8	5181.3	5260.4	5334.7	5397.9	5440.6	5440.6
15°	5217.7	5189.2	5156.0	5217.7	5331.5	5410.6	5443.8	5480.1	5514.9	5546.5	5540.2
17.5°	5379.0	5352.1	5334.7	5407.4	5526.0	5562.4	5540.2	5513.3	5513.3	5530.7	5533.9
20°	5518.1	5494.4	5505.4	5576.6	5638.3	5600.3	5518.1	5432.7	5397.9	5407.4	5416.9
22.5°	5639.8	5628.8	5662.0	5695.2	5650.9	5518.1	5366.3	5250.9	5208.2	5205.0	5208.2
25°	5782.1	5780.6	5821.7	5761.6	5565.5	5320.4	5116.5	5004.2	4980.5	4999.5	5031.1
27.5°	5959.2	5976.6	5997.2	5777.4	5391.6	5021.6	4814.5	4737.0	4760.7	4806.6	4836.6
30°	6185.3	6232.8	6188.5	5737.9	5141.8	4680.1	4482.5	4460.3	4525.1	4590.0	4621.6
32.5°	6405.1	6479.4	6371.9	5635.1	4819.2	4318.0	4164.7	4158.3	4237.4	4300.6	4344.9
35°	6582.2	6729.2	6509.4	5431.1	4446.1	3984.4	3872.1	3829.5	3857.9	3932.2	3982.8
37.5°	6813.0	7058.1	6604.3	5119.6	4041.3	3709.3	3578.1	3480.0	3454.7	3484.8	3510.1
40°	7235.2	7559.3	6648.6	4684.8	3646.0	3434.2	3301.4	3157.5	3057.9	2985.1	2986.7
42.5°	7924.5	8212.3	6620.1	4156.7	3280.8	3165.4	3015.2	2849.2	2687.9	2523.5	2510.8
45°	9044.0	9183.1	6534.7	3597.0	2959.8	2884.0	2743.2	2577.2	2362.2	2175.6	2158.2
47.5°	10835.4	10527.1	6401.9	3108.5	2676.8	2645.2	2515.6	2324.2	2096.6	1946.4	1933.7
50°	13278.2	12467.1	6337.1	2719.5	2427.0	2436.5	2330.6	2128.2	1913.1	1802.5	1789.8
52.5°	16200.1	14726.5	6462.0	2419.1	2226.2	2259.4	2180.4	1990.6	1810.4	1723.4	1710.8
55°	19231.1	17066.5	6596.4	2200.9	2036.5	2101.3	2074.4	1917.9	1755.0	1674.4	1663.3
57.5°	21825.7	18813.7	6327.6	2023.8	1867.3	1968.5	1992.2	1872.0	1726.6	1653.8	1641.2
60°	23459.0	19517.3	5622.4	1857.8	1732.9	1862.6	1944.8	1859.4	1737.6	1731.3	1721.8
62.5°	24233.7	19455.6	4564.7	1726.6	1649.1	1816.7	1979.6	1930.5	1864.1	1921.1	1925.8
65°	23885.9	18525.9	3399.4	1639.6	1589.0	1834.1	2083.9	2064.9	1900.5	1957.4	1965.3
67.5°	21596.4	16307.6	2517.1	1563.7	1522.6	1883.1	2273.6	2109.2	1829.3	1870.5	1845.2
70°	17455.5	12928.8	1941.6	1478.3	1454.6	1876.8	2359.0	2082.3	1751.9	1761.4	1693.4
72.5°	12037.0	8816.3	1579.5	1399.3	1356.6	1710.8	2298.9	2015.9	1687.0	1614.3	1524.2
75°	6545.8	4732.3	1342.4	1317.1	1184.3	1502.1	2188.3	1968.5	1628.5	1532.1	1481.5
77.5°	2575.6	1963.7	1165.3	1204.8	1035.6	1326.6	2064.9	1878.4	1547.9	1421.4	1396.1
80°	1051.4	1002.4	966.1	1042.0	890.2	1160.5	1916.3	1772.4	1451.5	1318.6	1268.1
82.5°	596.1	623.0	751.0	822.2	722.6	1068.8	1845.2	1687.0	1336.0	1181.1	1121.0
85°	305.2	365.2	523.3	589.8	531.3	909.1	1699.7	1476.8	1072.0	904.4	909.1
87.5°	147.0	204.0	330.5	370.0	344.7	657.7	1269.6	1070.4	834.8	660.9	640.4
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)