

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: P457176

Luminaire Tested: **GLAN-SA8C-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47373 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

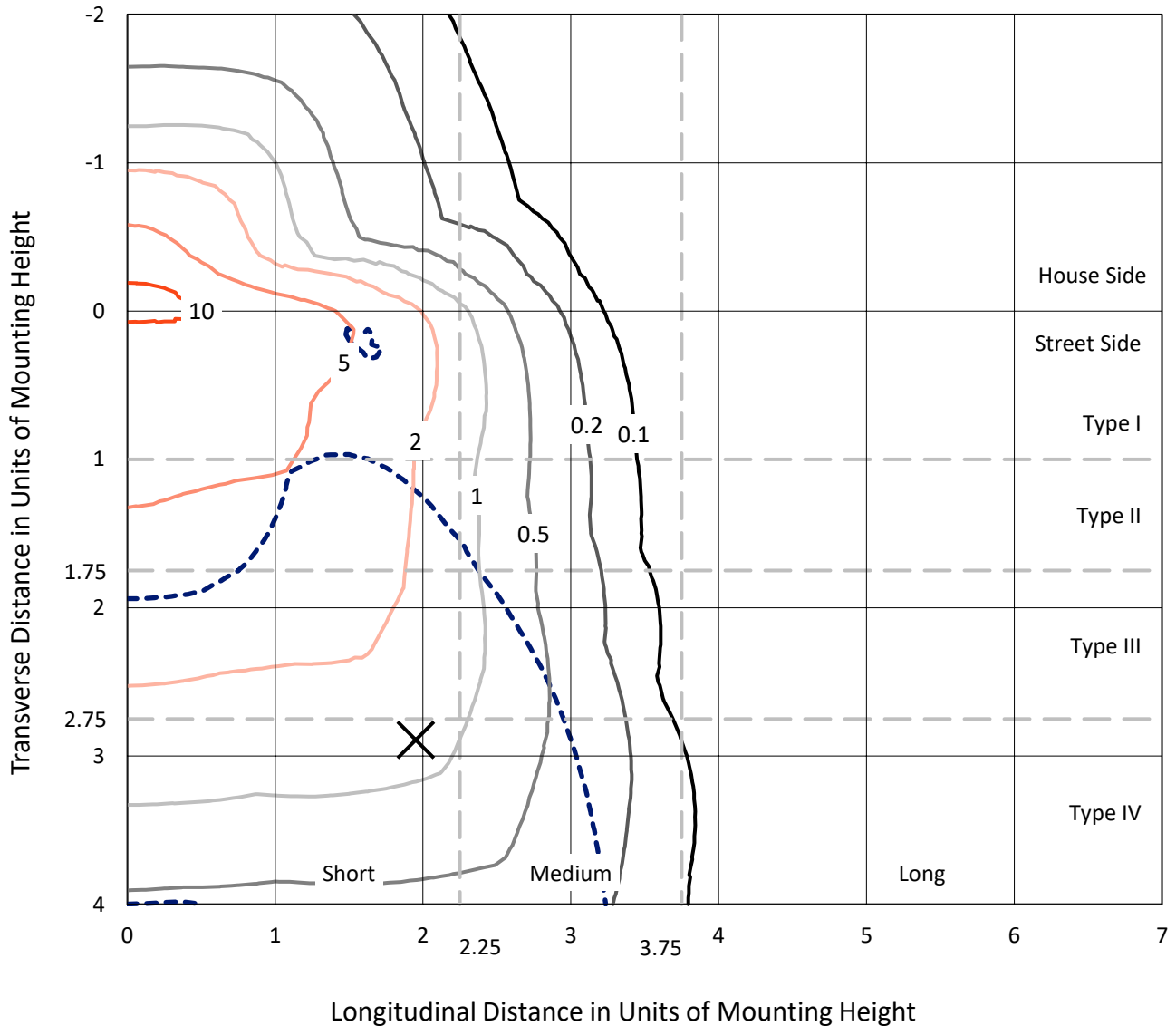
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

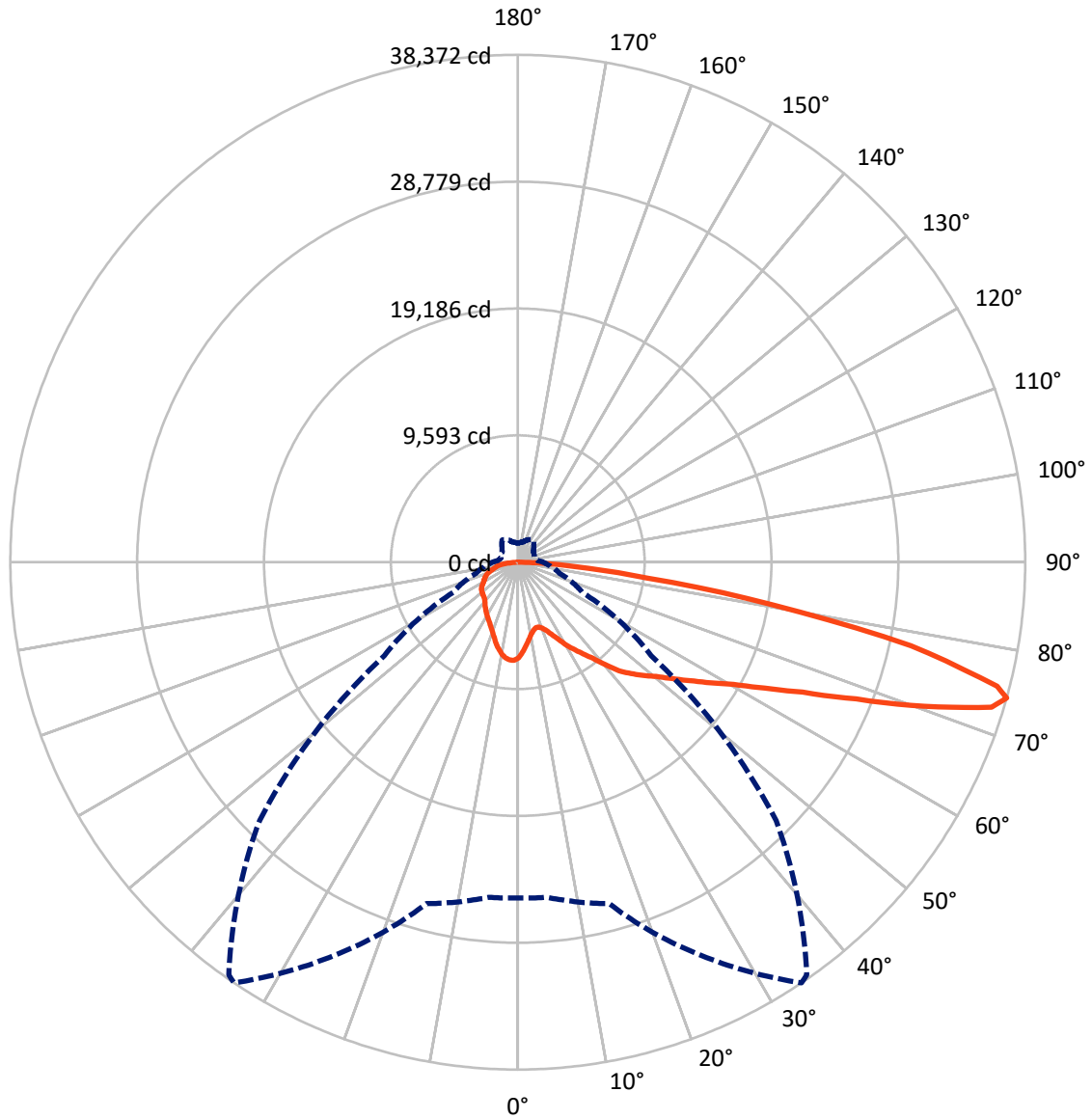
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10081.3	0.0	10081.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	37291.7	0.0	37291.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	47373.0	0.0	47373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.8	1.4
10°-20°	1800.7	3.8
20°-30°	2968.9	6.3
30°-40°	4447.1	9.4
40°-50°	6464.8	13.6
50°-60°	9029.8	19.1
60°-70°	11304.9	23.9
70°-80°	9348.2	19.7
80°-90°	1350.7	2.9
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°	47373.0	100.0
0°-180°	47373.0	100.0

Coefficient of Utilization



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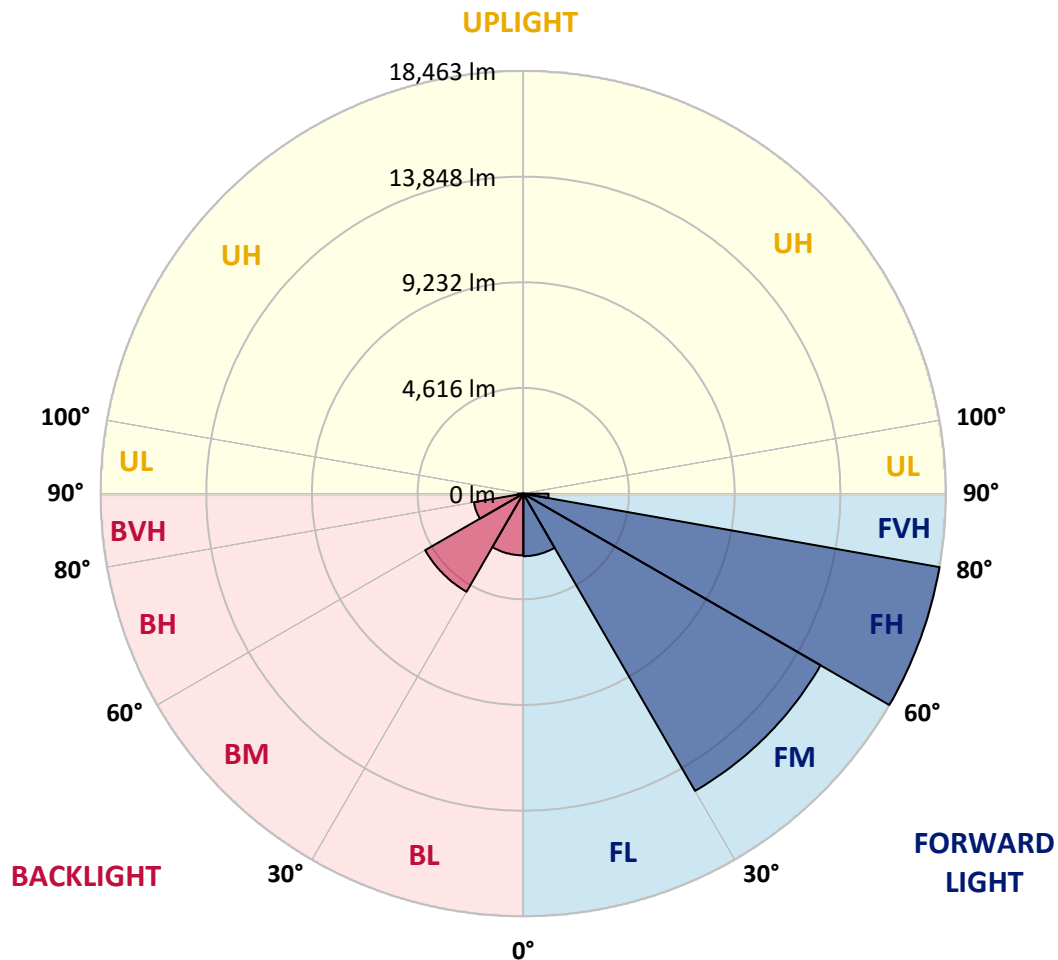
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.8	5.8			
FM (30°-60°)	14990.8	31.6			
FH (60°-80°)	18463.5	39.0			G5
FVH (80°-90°)	1106.6	2.3			G5
BL (0°-30°)	2696.6	5.7	B4/5000		
BM (30°-60°)	4951.0	10.5	B3/5000		
BH (60°-80°)	2189.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	244.2	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9
2.5°	6684.4	6718.5	6736.9	6802.5	6818.3	6839.3	6894.4	6967.9	7062.3	7146.3	7219.8
5°	6128.0	6180.5	6212.0	6269.8	6382.6	6393.1	6540.1	6708.0	6899.6	7078.1	7225.0
7.5°	5600.5	5658.3	5684.5	5789.5	5939.1	5962.7	6177.9	6443.0	6763.1	7033.5	7259.2
10°	5204.2	5233.1	5290.8	5369.6	5548.0	5563.8	5844.6	6198.9	6613.6	7012.5	7316.9
12.5°	4989.0	5004.8	5017.9	5101.9	5277.7	5301.3	5595.3	5996.8	6495.5	7028.2	7411.4
15°	5020.5	5025.8	4968.0	4983.8	5125.5	5159.6	5450.9	5863.0	6422.0	7067.6	7553.1
17.5°	5285.6	5267.2	5125.5	5052.0	5151.7	5167.5	5422.1	5810.5	6387.9	7141.1	7700.1
20°	5702.9	5676.6	5432.6	5269.8	5327.6	5340.7	5516.5	5849.8	6422.0	7261.8	7928.4
22.5°	6222.5	6212.0	5842.0	5645.1	5642.5	5642.5	5734.4	5991.6	6524.3	7427.1	8167.2
25°	6949.5	6894.4	6411.5	6156.9	6086.0	6080.8	6070.3	6225.1	6655.5	7603.0	8450.7
27.5°	7694.8	7600.3	7169.9	6778.9	6626.7	6608.3	6540.1	6555.8	6823.5	7802.4	8773.5
30°	8364.0	8303.7	7899.5	7466.5	7285.4	7243.4	7054.5	6967.9	7104.3	8162.0	9287.8
32.5°	8875.8	8839.1	8524.1	8130.5	7862.8	7854.9	7579.3	7508.5	7542.6	8597.6	9875.7
35°	9290.5	9303.6	9143.5	8802.3	8495.3	8450.7	8266.9	8177.7	8078.0	9227.5	10615.8
37.5°	9857.3	9886.2	9875.7	9581.8	9206.5	9217.0	9175.0	9028.0	8763.0	9930.8	11437.3
40°	10482.0	10503.0	10500.3	10387.5	10190.6	10201.1	10185.4	10017.4	9621.1	10825.8	12350.6
42.5°	11345.4	11245.7	10985.9	11098.7	11214.2	11264.0	11371.6	11211.6	10668.3	11781.1	13208.7
45°	12311.2	12122.2	11534.4	11586.8	12014.6	12109.1	12702.2	12481.8	11804.7	12878.1	14219.1
47.5°	12920.1	12733.7	12237.7	12227.2	12794.1	12885.9	13935.7	13854.3	12838.7	14061.7	15452.6
50°	13463.3	13437.1	12878.1	13011.9	13565.7	13702.1	15279.4	15203.3	13870.1	15457.9	16796.3
52.5°	14269.0	14056.4	13610.3	13885.8	14618.1	14796.5	16612.6	16389.5	14817.5	16691.4	18100.7
55°	14631.2	14581.3	14555.1	14793.9	15799.0	15927.6	17909.1	17397.3	15625.8	17735.9	19092.7
57.5°	15599.6	15507.7	15767.6	15930.3	17190.0	17386.8	19263.3	18449.7	16334.4	18565.2	19575.6
60°	16854.1	16804.2	17043.0	17337.0	18743.7	19042.8	20806.5	19347.3	16903.9	18982.5	19310.5
62.5°	18727.9	18722.7	18678.0	19307.9	20945.6	21221.1	22577.9	20221.2	16993.2	18670.2	17940.6
65°	21415.3	21320.8	20932.4	21620.0	23685.5	24008.3	24422.9	20709.4	16455.2	17066.6	15106.2
67.5°	24226.1	24220.8	23905.9	24798.2	27619.5	27952.8	26729.8	20601.8	14961.9	13825.5	10728.7
70°	26556.6	26443.7	26845.3	29223.0	32645.2	33031.0	28748.0	19334.2	11917.5	9130.4	6374.7
72.5°	27115.6	27120.8	27955.4	32634.7	37471.6	37531.9	29474.9	15670.5	7975.6	5036.3	3188.7
74°	25394.0	25438.6	26732.4	32805.3	38371.7	38098.8	27616.8	12316.4	5393.2	3288.4	2299.0
75°	23178.9	22898.1	24769.3	31669.0	37437.4	37143.5	25441.2	9883.6	4115.1	2627.1	2012.9
77.5°	12392.5	12678.6	15565.5	23633.0	30414.5	30075.9	17250.4	4739.7	2222.9	1829.2	1448.7
80°	4411.7	4865.7	6839.3	12366.3	19499.5	19604.5	8232.8	2173.0	1564.2	1349.0	1023.5
82.5°	1800.4	1850.2	2936.7	5487.7	9902.0	9996.4	3361.9	1291.2	1118.0	929.0	611.5
85°	703.3	724.3	1299.1	2467.0	4225.3	4500.9	1162.6	682.4	687.6	532.8	312.3
87.5°	236.2	267.7	532.8	821.4	1435.6	1406.7	338.6	202.1	246.7	230.9	97.1
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°	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9	7232.9
2.5°	7256.5	7306.4	7340.5	7377.3	7411.4	7421.9	7414.0	7437.6	7440.2	7442.9	7445.5
5°	7298.5	7366.8	7432.4	7469.1	7484.9	7471.7	7427.1	7403.5	7382.5	7366.8	7372.0
7.5°	7356.3	7453.4	7513.7	7529.5	7487.5	7427.1	7316.9	7230.3	7175.2	7138.4	7135.8
10°	7445.5	7540.0	7589.8	7545.2	7429.8	7282.8	7109.6	6946.9	6823.5	6786.8	6784.1
12.5°	7558.3	7666.0	7663.3	7532.1	7330.0	7067.6	6786.8	6597.8	6429.8	6345.9	6380.0
15°	7705.3	7786.7	7710.6	7474.4	7154.2	6794.6	6448.2	6191.0	6002.1	5912.8	5918.1
17.5°	7875.9	7946.8	7744.7	7372.0	6907.5	6445.6	6044.1	5800.0	5650.4	5584.8	5579.5
20°	8088.5	8109.5	7744.7	7193.6	6589.9	6038.8	5655.6	5485.1	5401.1	5367.0	5377.5
22.5°	8316.8	8274.8	7702.7	6941.6	6172.7	5613.6	5356.5	5280.3	5238.4	5233.1	5238.4
25°	8574.0	8455.9	7616.1	6600.4	5737.0	5246.2	5096.6	5109.8	5117.6	5117.6	5136.0
27.5°	8888.9	8652.7	7471.7	6170.0	5227.9	4905.1	4863.1	4954.9	4996.9	5004.8	5017.9
30°	9303.6	8867.9	7232.9	5632.0	4794.8	4598.0	4671.5	4794.8	4842.1	4870.9	4865.7
32.5°	9797.0	9104.1	6910.1	5094.0	4445.8	4382.8	4472.0	4598.0	4650.5	4666.2	4645.2
35°	10377.0	9371.8	6485.0	4590.1	4141.3	4178.1	4283.1	4322.4	4369.7	4369.7	4380.2
37.5°	11001.6	9587.0	5965.3	4128.2	3905.1	4039.0	4115.1	4078.4	4057.4	4031.1	4044.2
40°	11636.7	9747.1	5290.8	3671.6	3668.9	3894.6	3915.6	3810.7	3726.7	3700.4	3687.3
42.5°	12190.5	9846.8	4682.0	3317.3	3445.9	3752.9	3768.7	3600.7	3466.9	3388.1	3361.9
45°	12843.9	9962.3	4086.2	3023.3	3238.5	3640.1	3679.4	3453.7	3256.9	3091.6	3049.6
47.5°	13738.9	10224.8	3616.5	2795.0	3089.0	3569.2	3624.3	3333.0	3073.2	2858.0	2823.9
50°	14749.3	10584.3	3251.7	2640.2	2973.5	3506.2	3574.5	3209.7	2902.6	2663.8	2637.5
52.5°	15675.7	10778.5	2936.7	2501.1	2860.6	3390.8	3508.9	3120.4	2734.7	2469.6	2446.0
55°	16182.2	10463.6	2627.1	2364.6	2705.8	3241.2	3417.0	2997.1	2571.9	2367.2	2333.1
57.5°	16250.5	9812.7	2346.2	2217.6	2543.1	3057.5	3246.4	2847.5	2467.0	2296.4	2267.5
60°	15722.9	8841.7	2128.4	2096.9	2377.7	2850.1	3054.8	2716.3	2359.4	2217.6	2188.8
62.5°	14410.7	7786.7	1976.2	1986.7	2209.8	2632.3	2913.1	2590.3	2257.0	2131.0	2104.8
65°	12153.7	6427.2	1829.2	1873.8	2060.2	2461.7	2784.5	2485.3	2154.7	2065.4	2041.8
67.5°	8442.8	4640.0	1708.5	1755.7	1918.5	2288.5	2634.9	2372.5	2039.2	1991.9	1955.2
70°	4674.1	2855.4	1566.8	1621.9	1771.5	2094.3	2467.0	2201.9	1871.2	1850.2	1797.7
72.5°	2456.5	1818.7	1406.7	1467.1	1572.0	1845.0	2209.8	2015.6	1705.9	1616.6	1548.4
74°	1918.5	1490.7	1299.1	1362.1	1432.9	1698.0	2057.6	1881.7	1587.8	1482.8	1430.3
75°	1671.8	1328.0	1207.2	1288.6	1351.6	1598.3	1939.5	1787.2	1522.2	1422.4	1375.2
77.5°	1181.0	994.7	986.8	1083.9	1118.0	1401.4	1747.9	1627.1	1356.8	1251.9	1207.2
80°	829.3	745.3	782.1	842.4	889.7	1238.7	1621.9	1406.7	1112.8	989.4	973.7
82.5°	540.6	488.1	559.0	614.1	629.9	913.3	1309.6	1068.1	810.9	658.7	611.5
85°	249.3	244.1	320.2	312.3	309.7	446.2	776.8	624.6	467.1	349.0	328.1
87.5°	63.0	60.4	78.7	65.6	78.7	68.2	70.9	18.4	2.6	0.0	0.0
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)