

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: P318131

Luminaire Tested: **GAN-SA7C-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49095 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

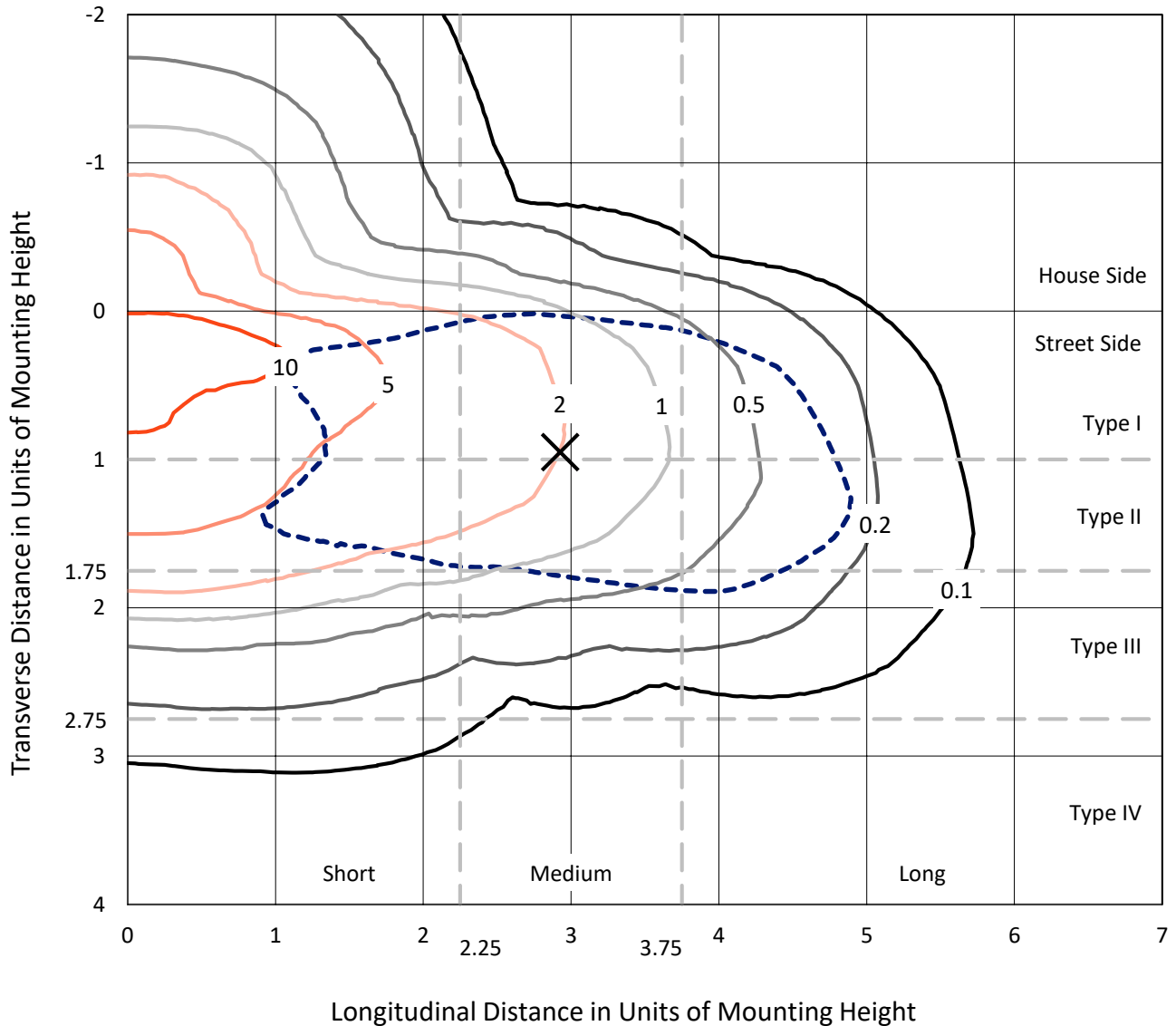
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318131
 CATALOG NUMBER: GAN-SA7C-750-U-T2

Iso-Footcandle Lines of Horizontal Illumination

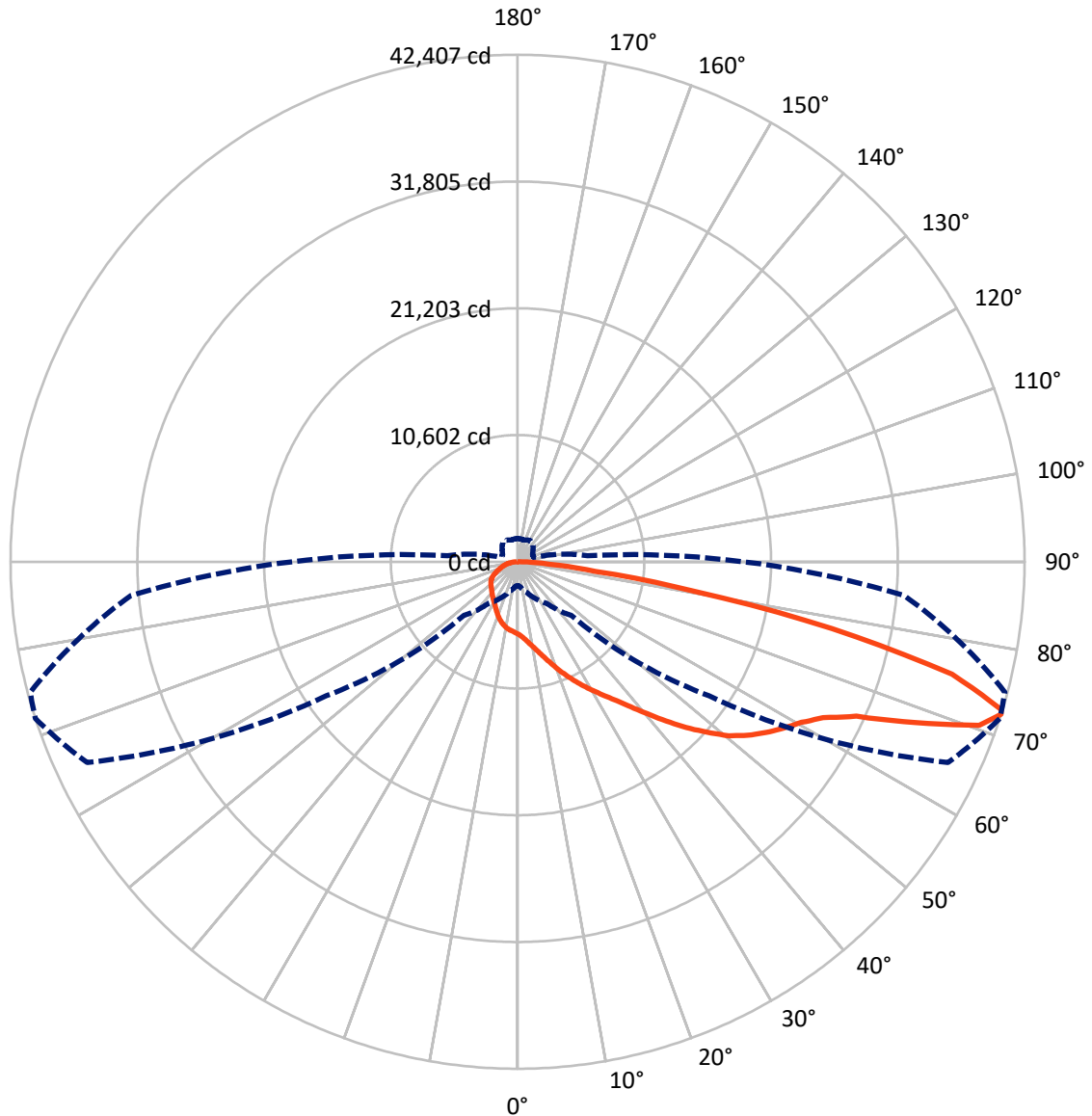
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GAN-SA7C-750-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9107.4	0.0	9107.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	39987.5	0.0	39987.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	49095.0	0.0	49095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.2	1.2
10°-20°	1955.8	4.0
20°-30°	3427.1	7.0
30°-40°	5081.4	10.4
40°-50°	7431.9	15.1
50°-60°	10226.3	20.8
60°-70°	11384.9	23.2
70°-80°	7714.4	15.7
80°-90°	1267.9	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°	49095.0	100.0
0°-180°	49095.0	100.0

Coefficient of Utilization

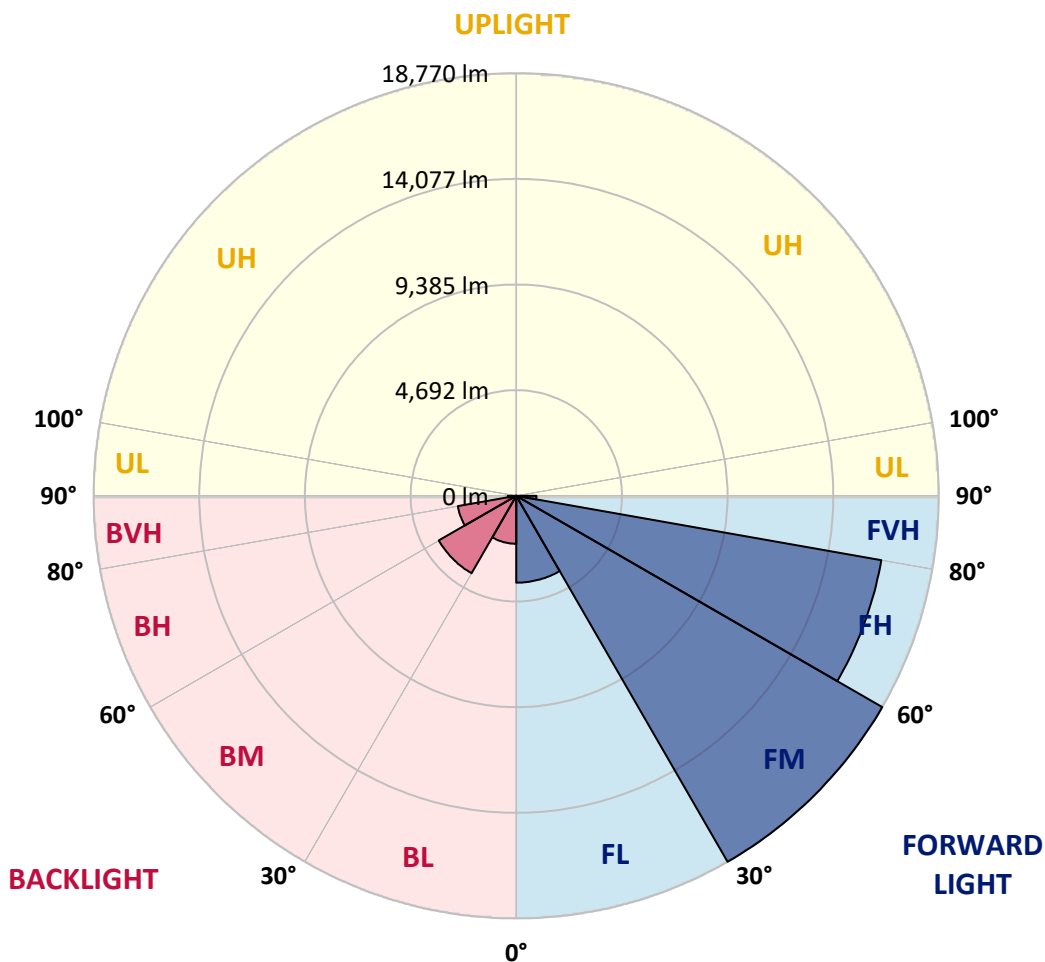


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3859.2	7.9			
FM (30°-60°)	18769.6	38.2			
FH (60°-80°)	16464.4	33.5			G5
FVH (80°-90°)	894.4	1.8			G5
BL (0°-30°)	2129.0	4.3	B3/2500		
BM (30°-60°)	3970.0	8.1	B3/5000		
BH (60°-80°)	2634.9	5.4	B4/5000		G4/5000
BVH (80°-90°)	373.6	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0
2.5°	6672.2	6662.1	6626.6	6626.6	6558.9	6501.5	6393.3	6320.6	6234.4	6203.9	6102.5
5°	7317.9	7321.3	7277.4	7246.9	7147.2	7025.5	6841.2	6673.9	6506.5	6438.9	6231.0
7.5°	7860.6	7853.8	7842.0	7816.6	7723.7	7598.6	7350.1	7101.6	6854.8	6753.3	6395.0
10°	8208.8	8224.0	8234.2	8246.0	8207.1	8117.5	7882.6	7580.0	7257.1	7118.5	6591.1
12.5°	8384.6	8411.7	8459.0	8540.1	8604.4	8594.2	8423.5	8102.3	7718.6	7544.5	6836.2
15°	8487.7	8523.2	8597.6	8743.0	8923.9	9027.0	8981.3	8690.6	8262.9	8048.2	7135.4
17.5°	8552.0	8580.7	8695.7	8890.1	9158.8	9432.7	9552.7	9309.3	8878.2	8633.1	7478.5
20°	8595.9	8617.9	8761.6	8989.8	9338.0	9774.2	10108.9	10048.0	9556.1	9238.3	7836.9
22.5°	8694.0	8712.6	8849.5	9079.4	9464.8	10027.7	10644.7	10736.0	10271.2	9911.1	8220.6
25°	8967.8	8967.8	9082.8	9243.4	9605.1	10247.5	11097.8	11501.8	11001.4	10582.2	8575.6
27.5°	9490.2	9485.1	9527.4	9583.1	9857.0	10470.6	11501.8	12178.0	11758.7	11300.6	8920.5
30°	10108.9	10142.7	10147.8	10120.7	10249.2	10749.6	11875.4	12891.3	12521.1	12027.5	9273.8
32.5°	10905.1	10927.0	10901.7	10812.1	10793.5	11145.1	12242.2	13638.5	13346.1	12786.5	9596.7
35°	11916.0	11873.7	11794.2	11611.7	11437.6	11674.2	12661.4	14385.7	14272.4	13704.5	10041.3
37.5°	12999.5	13001.2	12903.2	12489.0	12249.0	12350.4	13239.6	15232.6	15393.2	14796.5	10610.9
40°	13868.4	13914.1	13974.9	13430.6	13119.6	13259.9	13974.9	16214.8	16718.5	16091.4	11353.0
42.5°	14475.3	14527.7	14700.1	14358.7	14035.8	14296.1	14840.4	17262.8	18206.1	17585.7	12221.9
45°	15117.7	15146.4	15268.1	15121.0	14914.8	15501.4	15815.8	18348.1	19779.9	19178.1	13193.9
47.5°	15793.8	15824.3	15949.4	15851.3	15743.1	16627.2	16833.5	19370.8	21287.8	20927.7	14231.9
50°	16628.9	16649.2	16767.5	16590.0	16623.9	17475.8	17742.9	20309.0	22868.4	22499.8	15273.2
52.5°	17768.3	17773.4	17937.3	17776.7	17617.8	18097.9	18525.6	21193.1	24107.5	23933.3	16314.5
55°	18660.8	18714.9	19252.5	19218.7	19127.4	18662.5	19179.8	22035.0	25213.0	25295.8	17420.1
57.5°	18091.2	18302.5	19391.1	20158.6	20905.8	20067.3	20063.9	22983.3	26240.8	26633.0	18635.5
60°	15844.6	16131.9	17736.2	19438.4	21776.3	22511.7	21899.7	24141.3	27278.7	27958.3	20158.6
62.5°	11315.8	11789.2	13963.1	16681.3	20582.9	24131.1	25635.6	25978.8	28690.3	29493.2	22138.1
65°	5720.5	6078.8	7901.1	11175.5	16444.7	23072.9	29696.1	30002.0	31143.1	31856.5	25186.0
67.5°	3475.6	3610.8	4500.0	6215.8	10081.8	17972.8	31021.4	36708.0	35889.9	36268.5	29532.1
70°	2561.0	2660.8	3215.2	4128.1	5798.2	10546.7	26954.2	41493.7	40956.1	40913.9	32744.0
72°	1994.7	2067.4	2557.6	3335.3	4239.6	6327.3	19536.5	39727.2	42406.5	42193.5	32449.8
72.5°	1891.6	1955.8	2402.1	3139.2	4006.4	5735.7	17565.4	38535.4	42301.7	42205.4	32069.5
75°	1489.3	1534.9	1778.3	2427.5	3135.8	3254.1	9625.4	29863.4	37526.2	39086.5	28844.1
77.5°	1232.3	1239.1	1367.6	1766.5	2444.4	2300.7	4728.2	20719.8	26871.3	28587.1	20432.4
80°	1004.1	1012.6	1073.4	1239.1	1849.3	1702.3	2244.9	11914.3	15045.0	15063.6	9716.7
82.5°	799.6	801.3	868.9	906.1	1328.7	1217.1	1286.4	5593.7	6574.1	6324.0	3492.5
85°	562.9	551.1	848.6	743.8	868.9	781.0	710.0	2214.5	2718.2	2599.9	1093.7
87.5°	187.6	194.4	377.0	481.8	507.1	442.9	316.1	848.6	1026.1	1017.6	346.5
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°	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0	6040.0
2.5°	6070.4	6016.3	5936.8	5848.9	5779.6	5708.6	5656.2	5629.2	5598.8	5573.4	5603.8
5°	6134.6	6033.2	5864.2	5698.5	5576.8	5468.6	5390.8	5350.3	5313.1	5287.7	5291.1
7.5°	6239.4	6075.5	5791.5	5549.7	5380.7	5264.1	5184.6	5157.6	5133.9	5127.1	5135.6
10°	6351.0	6109.3	5695.1	5373.9	5181.2	5084.9	5049.4	5068.0	5084.9	5100.1	5117.0
12.5°	6477.8	6139.7	5554.8	5167.7	5003.7	4966.5	5002.0	5083.2	5142.3	5177.8	5199.8
15°	6643.5	6166.7	5392.5	4961.5	4851.6	4893.8	5013.9	5154.2	5257.3	5323.2	5333.4
17.5°	6795.6	6165.1	5184.6	4753.5	4728.2	4851.6	5032.5	5230.2	5368.9	5461.8	5480.4
20°	6952.8	6119.4	4942.9	4550.7	4603.1	4805.9	5040.9	5279.3	5446.6	5554.8	5580.2
22.5°	7099.9	6040.0	4677.5	4366.4	4498.3	4745.1	5008.8	5250.5	5417.9	5505.8	5532.8
25°	7199.6	5901.3	4408.7	4210.9	4405.3	4670.7	4904.0	5098.4	5223.5	5267.4	5274.2
27.5°	7250.3	5720.5	4155.1	4075.7	4308.9	4549.0	4709.6	4805.9	4841.4	4838.1	4831.3
30°	7257.1	5482.1	3937.1	3965.8	4197.4	4369.8	4445.9	4427.3	4381.6	4303.9	4310.6
32.5°	7235.1	5213.3	3754.5	3861.0	4055.4	4151.7	4155.1	4065.5	3943.8	3820.4	3786.6
35°	7241.9	4949.6	3593.9	3742.6	3883.0	3925.2	3886.3	3754.5	3588.8	3429.9	3396.1
37.5°	7316.3	4719.7	3455.3	3605.7	3691.9	3702.1	3646.3	3507.7	3386.0	3230.4	3216.9
40°	7493.7	4555.8	3323.4	3451.9	3500.9	3506.0	3426.5	3328.5	3338.6	3255.8	3254.1
42.5°	7813.2	4484.8	3206.8	3291.3	3321.7	3331.9	3271.0	3208.5	3296.4	3242.3	3223.7
45°	8225.7	4501.7	3108.7	3134.1	3189.9	3237.2	3200.0	3123.9	3157.8	2922.8	2845.0
47.5°	8702.4	4609.8	3031.0	2998.9	3095.2	3184.8	3127.3	3012.4	2892.4	2659.1	2615.1
50°	9260.3	4777.2	2960.0	2865.3	2992.1	3113.8	3056.3	2892.4	2711.5	2598.2	2583.0
52.5°	9841.8	4981.7	2889.0	2718.2	2861.9	3059.7	3031.0	2865.3	2642.2	2530.6	2510.3
55°	10501.1	5188.0	2799.4	2547.5	2721.6	3034.4	3019.1	2767.3	2589.8	2527.2	2512.0
57.5°	11320.9	5423.0	2681.0	2370.0	2589.8	2943.1	2895.7	2708.1	2535.7	2488.3	2483.3
60°	12389.3	5769.5	2510.3	2180.7	2429.2	2802.8	2792.6	2621.9	2449.5	2415.6	2408.9
62.5°	13991.8	6342.6	2275.3	1991.3	2250.0	2564.4	2657.4	2505.2	2358.2	2356.5	2359.9
65°	16476.8	7204.7	2020.1	1825.7	2069.1	2363.2	2500.2	2385.2	2265.2	2299.0	2304.1
67.5°	19357.3	7919.7	1769.9	1663.4	1884.8	2172.2	2358.2	2265.2	2141.8	2229.7	2231.4
70°	20315.8	7280.8	1550.1	1502.8	1693.8	1988.0	2204.3	2133.3	2008.3	2096.2	2087.7
72°	18906.0	5877.7	1408.1	1381.1	1550.1	1835.8	2067.4	2009.9	1886.5	1945.7	1923.7
72.5°	18461.4	5603.8	1372.6	1350.7	1511.3	1796.9	2031.9	1979.5	1856.1	1906.8	1886.5
75°	16468.3	4866.8	1179.9	1185.0	1318.5	1607.6	1832.4	1815.5	1688.8	1693.8	1687.1
77.5°	11944.7	3568.5	994.0	1027.8	1122.5	1413.2	1631.3	1621.1	1482.5	1457.2	1452.1
80°	5543.0	1820.6	809.7	824.9	923.0	1181.6	1391.2	1377.7	1266.1	1234.0	1215.4
82.5°	1898.4	865.5	608.6	618.7	715.1	951.7	1207.0	1198.5	1105.6	1043.0	1004.1
85°	677.9	431.1	426.0	415.8	510.5	748.9	1051.5	1005.8	868.9	740.4	737.0
87.5°	219.8	184.3	219.8	218.1	297.5	507.1	764.1	650.8	630.5	524.0	513.9
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)