

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: P192267

Luminaire Tested: **GAN-AF-09-LED-U-T3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58388 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

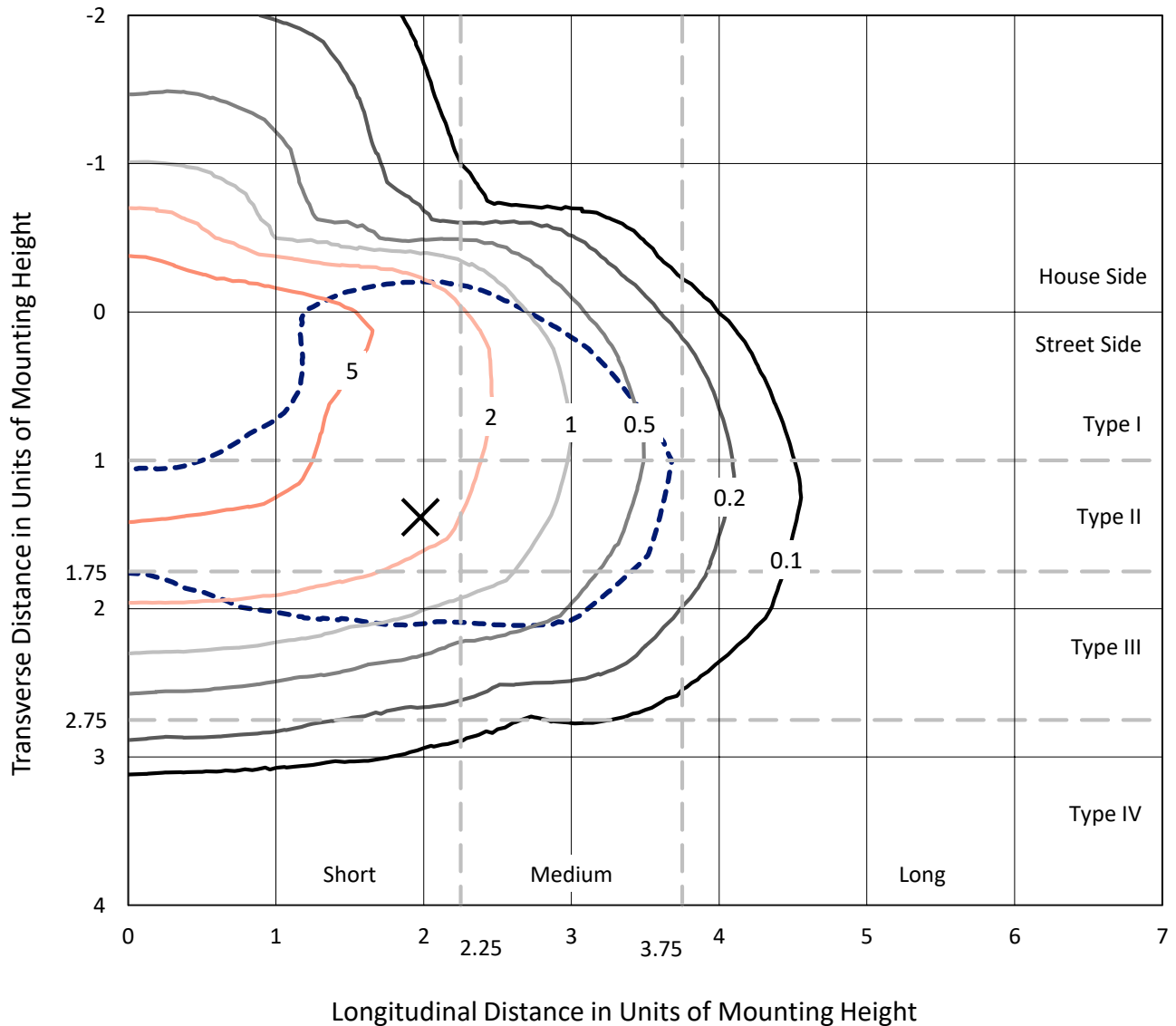
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

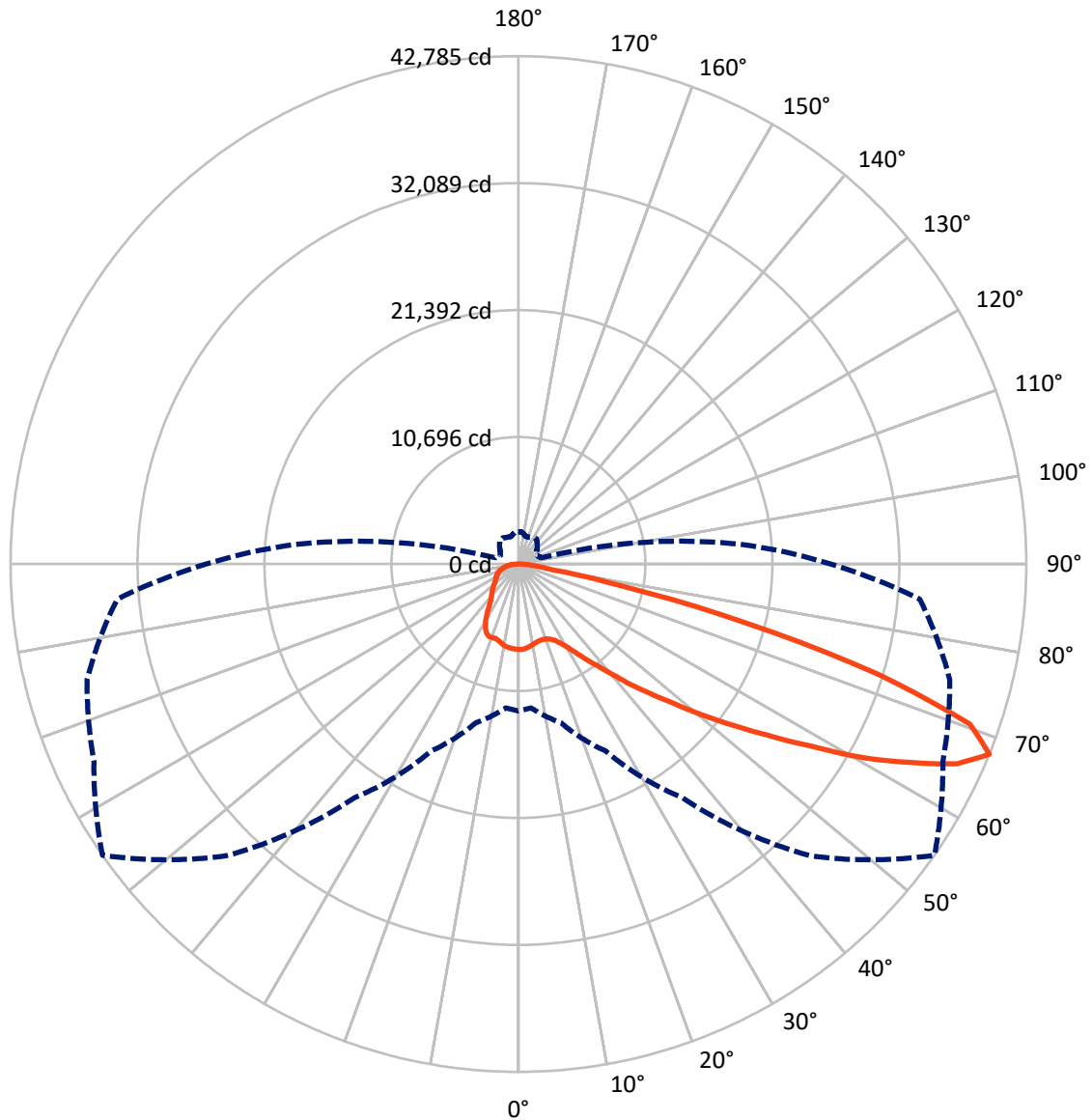
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12613.1	0.0	12613.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	45774.9	0.0	45774.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	58388.0	0.0	58388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.0	1.2
10°-20°	1903.3	3.3
20°-30°	3188.3	5.5
30°-40°	5242.9	9.0
40°-50°	8825.4	15.1
50°-60°	13890.5	23.8
60°-70°	16576.8	28.4
70°-80°	7118.4	12.2
80°-90°	970.5	1.7
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°	58388.0	100.0
0°-180°	58388.0	100.0

Coefficient of Utilization



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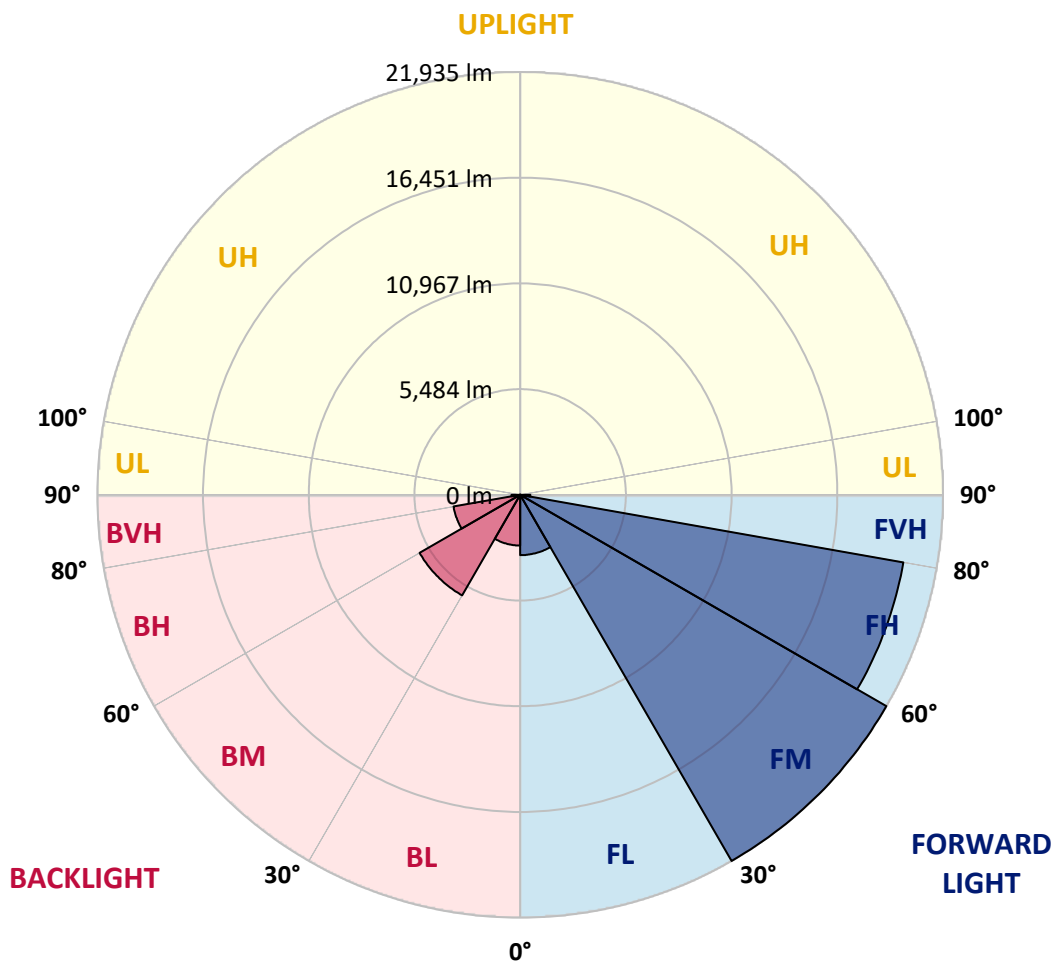
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3129.7	5.4			
FM	(30°-60°)	21934.8	37.6			
FH	(60°-80°)	20185.0	34.6			G5
FVH	(80°-90°)	525.4	0.9			G4/750
BL	(0°-30°)	2633.8	4.5	B4/5000		
BM	(30°-60°)	6023.9	10.3	B4/8500		
BH	(60°-80°)	3510.2	6.0	B4/5000		G4/5000
BVH	(80°-90°)	445.2	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9
2.5°	7137.8	7140.7	7146.3	7168.9	7188.6	7183.0	7185.8	7174.5	7171.7	7154.8	7171.7
5°	7047.6	7056.0	7058.9	7095.5	7118.1	7123.7	7115.3	7101.2	7084.3	7067.3	7075.8
7.5°	6841.7	6864.3	6867.1	6917.9	6954.5	7002.5	7005.3	7008.1	6999.6	6988.4	7005.3
10°	6712.0	6717.6	6714.8	6751.5	6779.7	6833.3	6864.3	6917.9	6940.4	6946.1	6957.3
12.5°	6703.5	6697.9	6689.4	6689.4	6681.0	6703.5	6759.9	6836.1	6889.7	6906.6	6920.7
15°	6793.8	6791.0	6762.8	6720.5	6666.9	6649.9	6697.9	6782.5	6853.0	6889.7	6903.8
17.5°	6996.8	6979.9	6934.8	6838.9	6723.3	6678.1	6683.8	6754.3	6836.1	6884.0	6898.1
20°	7369.1	7369.1	7273.2	7092.7	6886.8	6779.7	6728.9	6771.2	6850.2	6915.0	6934.8
22.5°	8012.1	8017.7	7857.0	7560.9	7214.0	6985.5	6858.6	6850.2	6943.2	7016.6	7039.1
25°	8923.0	8900.4	8674.8	8251.8	7724.4	7346.5	7126.6	7075.8	7154.8	7236.5	7264.7
27.5°	9983.4	9901.6	9633.7	9123.2	8440.8	7888.0	7549.6	7467.8	7543.9	7637.0	7665.2
30°	11032.5	10947.9	10629.2	10070.8	9312.2	8612.8	8127.7	7995.2	8102.3	8234.9	8251.8
32.5°	12081.6	12081.6	11726.2	11074.8	10248.5	9478.6	8897.6	8739.7	8917.4	9078.1	9114.8
35°	13336.6	13342.2	12998.1	12214.1	11325.8	10510.8	9870.6	9754.9	10022.9	10135.7	10223.1
37.5°	14879.2	14910.2	14467.4	13519.9	12546.9	11689.6	10928.1	10770.2	11038.1	11345.5	11627.5
40°	16545.9	16585.4	16097.5	14929.9	13957.0	13060.2	12236.7	11951.9	12397.4	12984.0	13347.8
42.5°	18136.5	18339.5	17868.6	16667.2	15620.9	14693.1	13858.3	13443.7	14002.1	14887.6	15203.5
45°	20434.9	20581.6	19760.9	18672.3	17688.1	16650.2	15544.7	15107.6	15888.8	17005.6	17070.5
47.5°	21966.3	21856.3	21438.9	20762.0	20138.8	19168.7	17504.8	17025.3	18063.1	19377.3	19013.5
50°	22781.3	22815.1	22758.7	22798.2	22820.8	22211.6	19907.5	19250.4	20488.5	22076.2	21238.7
52.5°	23542.7	23317.1	23503.2	24428.3	25545.0	25319.4	22521.8	21836.5	23088.7	25071.3	23590.7
55°	23525.8	23181.7	23788.1	25421.0	27843.5	28102.9	25457.6	24668.0	25838.3	28283.4	26083.7
57.5°	22693.9	22710.8	23644.3	25781.9	29445.3	30720.0	28864.4	27679.9	28754.4	31537.9	28359.6
60°	21548.9	21704.0	23049.2	25722.7	30728.5	32866.2	33043.9	30925.9	31611.2	34496.2	30243.4
62.5°	19701.7	19865.2	21720.9	25107.9	30533.9	34933.4	36822.9	34609.1	34597.8	36289.9	30796.2
65°	16788.4	16740.5	18689.2	22809.5	28901.0	36461.9	40576.5	37793.0	36848.3	36318.1	29685.0
67.5°	12380.5	12166.2	13838.5	17372.2	24022.2	34750.1	42784.7	39451.3	37615.3	33929.4	26289.6
70°	6424.3	6210.0	7563.7	10144.1	15798.6	27121.5	40339.6	38593.9	35920.4	28441.4	20595.7
72.5°	2746.8	2710.2	3260.1	4450.2	7642.6	15643.4	31631.0	33404.8	30821.6	21190.7	14160.0
75°	1847.2	1835.9	2041.8	2425.3	3437.8	6348.2	19794.7	23711.9	22550.0	13139.1	7964.1
77.5°	1449.6	1435.5	1556.7	1742.9	2227.9	2504.3	8784.8	12730.2	11782.6	5719.3	3485.7
80°	1133.7	1122.4	1198.6	1300.1	1601.9	1579.3	2890.7	5065.0	3920.0	2191.3	1694.9
82.5°	894.0	894.0	956.0	958.9	1136.5	1077.3	1508.8	2230.7	1957.2	1277.5	1037.8
85°	817.8	817.8	882.7	716.3	741.7	679.7	936.3	1322.7	1240.9	524.6	451.2
87.5°	411.7	400.5	741.7	634.5	403.3	361.0	456.9	640.2	688.1	290.5	225.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9
2.5°	7166.0	7163.2	7168.9	7171.7	7194.2	7225.3	7239.4	7259.1	7270.4	7264.7
5°	7081.4	7087.1	7109.6	7126.6	7166.0	7216.8	7245.0	7267.6	7287.3	7278.8
7.5°	7010.9	7025.0	7058.9	7073.0	7095.5	7109.6	7106.8	7115.3	7132.2	7112.5
10°	6971.4	6988.4	7013.7	6994.0	6940.4	6864.3	6793.8	6757.1	6768.4	6754.3
12.5°	6932.0	6954.5	6934.8	6841.7	6692.2	6593.5	6540.0	6545.6	6571.0	6576.6
15°	6909.4	6917.9	6833.3	6658.4	6506.1	6492.0	6520.2	6514.6	6517.4	6517.4
17.5°	6909.4	6886.8	6728.9	6554.1	6489.2	6463.8	6376.4	6266.4	6218.5	6201.5
20°	6946.1	6886.8	6695.1	6579.4	6438.4	6221.3	5990.0	5787.0	5696.7	5671.3
22.5°	7056.0	6954.5	6791.0	6590.7	6190.3	5826.5	5459.8	5217.3	5053.7	5025.5
25°	7278.8	7166.0	6979.9	6441.3	5795.4	5276.5	4859.1	4588.4	4424.8	4402.3
27.5°	7668.0	7594.7	7081.4	6111.3	5270.9	4715.3	4329.0	4120.3	3999.0	3990.5
30°	8254.6	8218.0	7030.7	5623.4	4625.1	4171.0	3984.9	3863.6	3773.4	3770.6
32.5°	9190.9	8894.8	6864.3	5028.4	4035.7	3784.7	3708.5	3635.2	3564.7	3564.7
35°	10395.1	9441.9	6548.4	4391.0	3677.5	3570.3	3474.4	3358.8	3265.7	3260.1
37.5°	11810.8	9780.3	5981.6	3877.7	3508.3	3426.5	3285.5	3113.5	2949.9	2921.7
40°	13240.7	9881.9	5183.5	3561.9	3401.1	3282.7	3110.6	2907.6	2749.7	2741.2
42.5°	14552.0	9687.3	4337.4	3344.7	3294.0	3136.0	2955.5	2775.0	2651.0	2648.1
45°	15651.9	9182.5	3626.7	3138.8	3181.1	3003.5	2842.7	2696.1	2600.2	2580.4
47.5°	16686.9	8469.0	3127.6	2921.7	3068.3	2930.2	2794.8	2656.6	2563.5	2549.4
50°	17888.3	7699.0	2777.9	2710.2	2969.6	2904.8	2834.3	2690.4	2535.3	2518.4
52.5°	19343.5	7033.5	2504.3	2524.0	2893.5	2938.6	2935.8	2786.3	2515.6	2493.0
55°	20967.9	6294.6	2298.4	2371.8	2862.5	3000.7	2961.2	2876.6	2532.5	2498.7
57.5°	22567.0	5431.6	2154.6	2256.1	2817.3	2995.0	2839.9	2718.6	2572.0	2524.0
60°	23765.5	4272.5	2044.6	2154.6	2718.6	2901.9	2707.4	2546.6	2563.5	2526.9
62.5°	23844.5	3302.4	1912.1	2067.2	2569.2	2808.9	2619.9	2470.5	2600.2	2566.3
65°	22442.9	2495.8	1785.2	1962.8	2408.4	2749.7	2535.3	2428.2	2676.3	2639.7
67.5°	18895.1	2008.0	1678.0	1855.7	2247.7	2625.6	2459.2	2388.7	2744.0	2679.2
70°	13641.1	1711.8	1573.7	1725.9	2103.8	2484.6	2391.5	2318.2	2560.7	2459.2
72.5°	8398.4	1483.4	1455.2	1553.9	1993.9	2337.9	2290.0	2185.6	2306.9	2225.1
75°	4193.6	1286.0	1322.7	1384.7	1838.7	2171.5	2120.8	2016.4	2033.3	2016.4
77.5°	2008.0	1099.9	1167.5	1215.5	1638.5	1982.6	1929.0	1821.8	1802.1	1804.9
80°	1271.9	919.4	984.2	1018.1	1463.7	1762.6	1709.0	1601.9	1827.5	1694.9
82.5°	795.3	747.3	764.3	826.3	1274.7	1534.2	1463.7	1367.8	1647.0	1302.9
85°	439.9	521.7	544.3	597.9	981.4	1283.2	1212.7	1091.4	978.6	961.7
87.5°	262.3	310.2	318.7	358.2	659.9	927.8	820.7	778.4	645.8	643.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)