

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: P193998

Luminaire Tested: **GAN-AF-10-LED-U-T3-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193998
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-10-LED-U-T3-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48087 lumens
Efficiency: N/A
Efficacy: 86.2 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

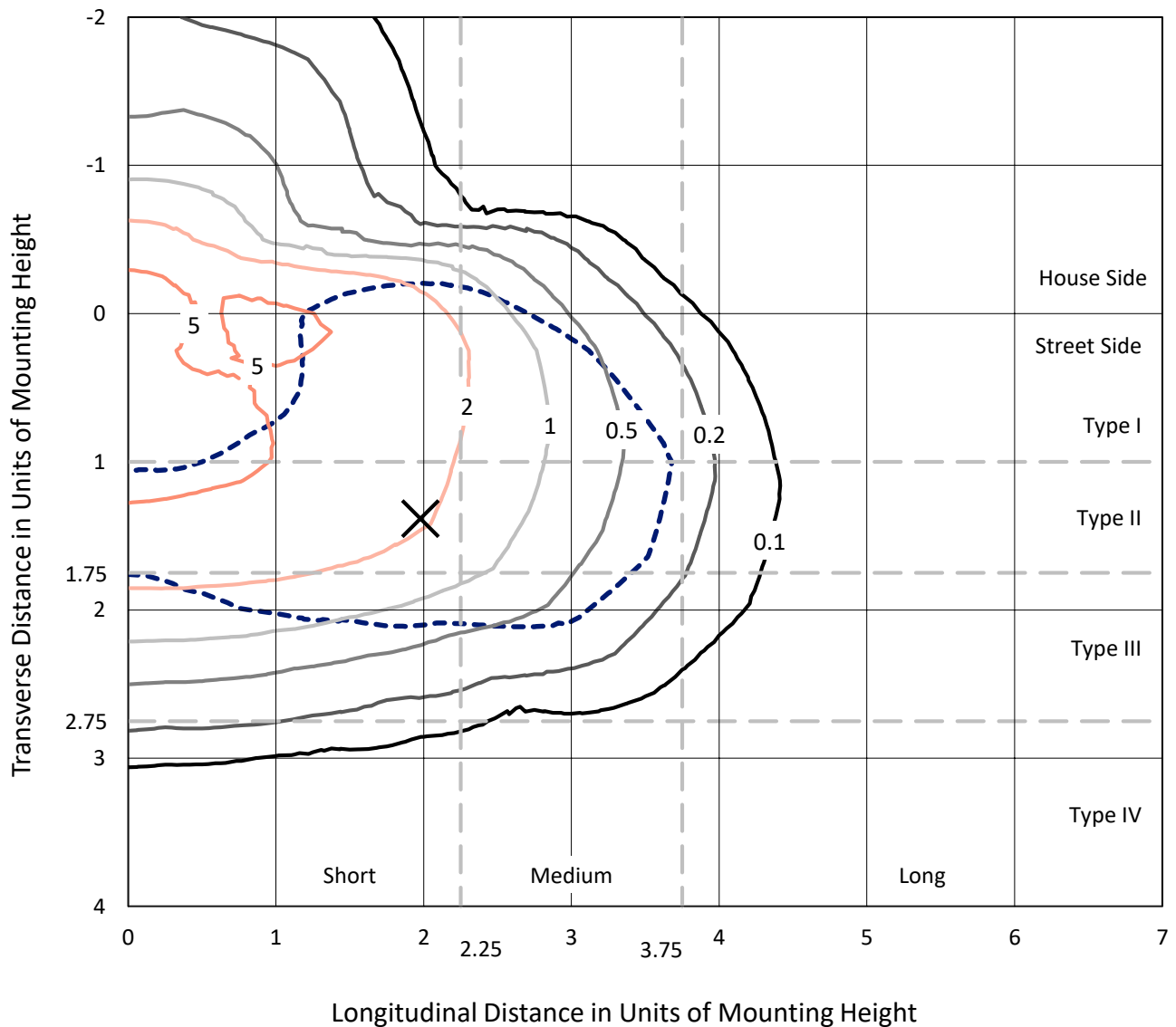
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

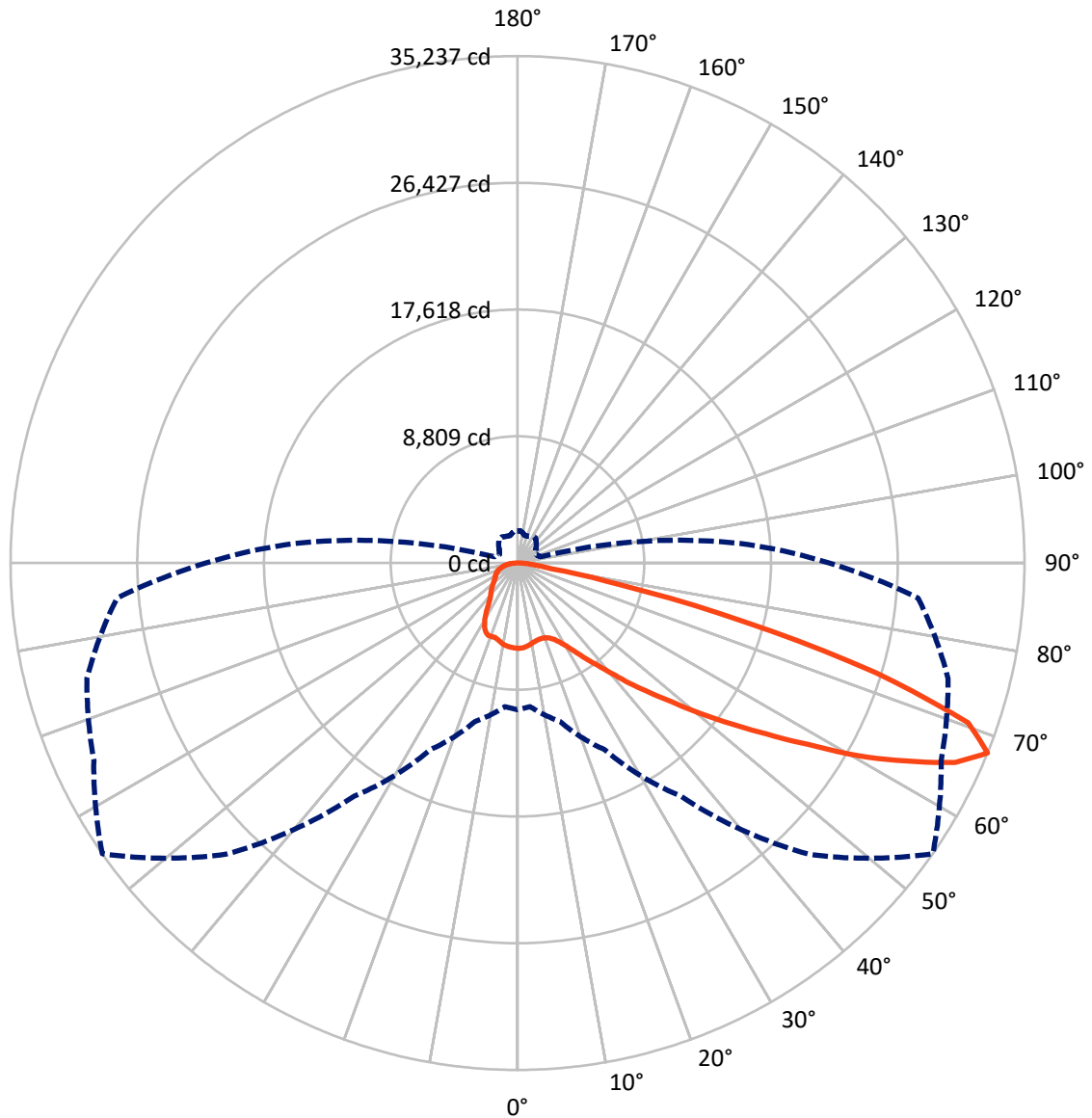
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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	10387.8	0.0	10387.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	37699.2	0.0	37699.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	48087.0	0.0	48087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.5	1.2
10°-20°	1567.5	3.3
20°-30°	2625.8	5.5
30°-40°	4317.9	9.0
40°-50°	7268.4	15.1
50°-60°	11439.9	23.8
60°-70°	13652.3	28.4
70°-80°	5862.5	12.2
80°-90°	799.3	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°	48087.0	100.0
0°-180°	48087.0	100.0

Coefficient of Utilization



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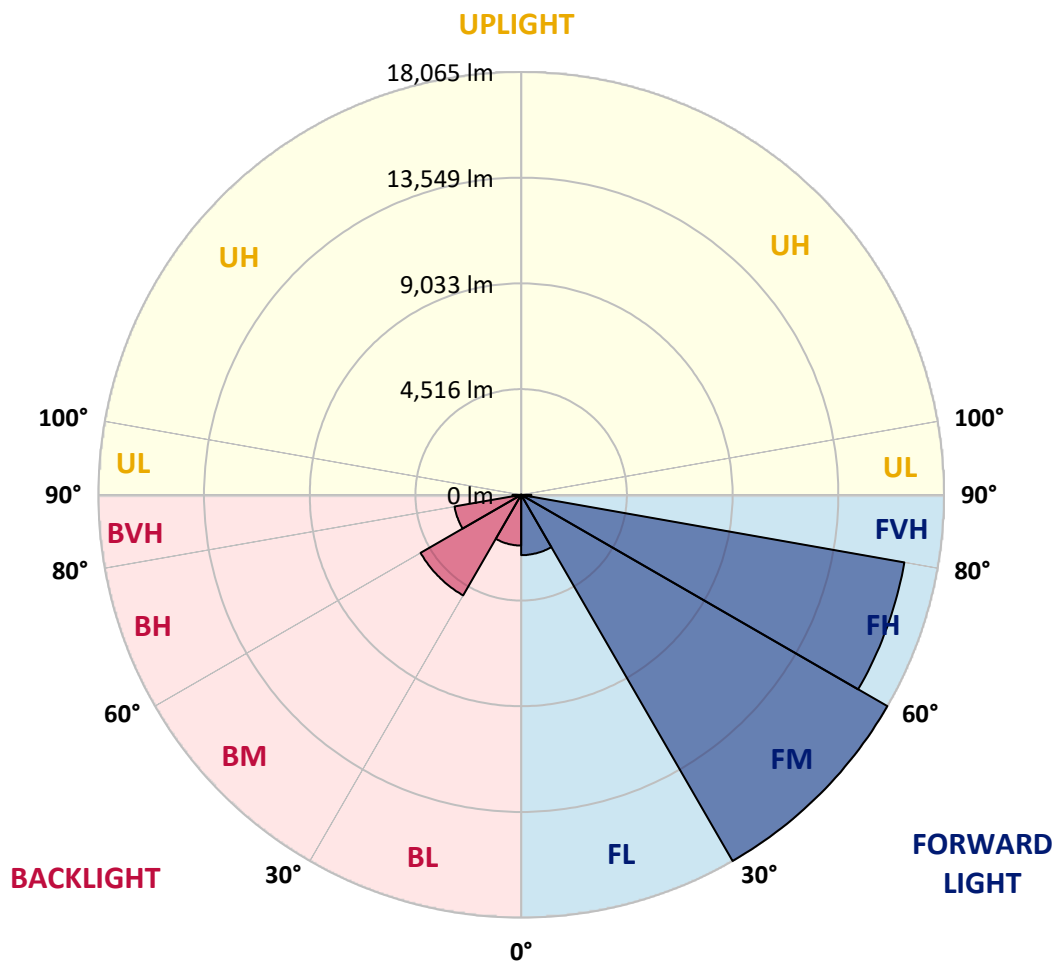
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2577.6	5.4			
FM	(30°-60°)	18065.0	37.6			
FH	(60°-80°)	16623.9	34.6			G5
FVH	(80°-90°)	432.7	0.9			G3/500
BL	(0°-30°)	2169.2	4.5	B3/2500		
BM	(30°-60°)	4961.1	10.3	B3/5000		
BH	(60°-80°)	2890.9	6.0	B4/5000		G4/5000
BVH	(80°-90°)	366.6	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5929.7	5929.7	5929.7	5929.7	5929.7	5929.7	5929.7	5929.7	5929.7	5929.7	5929.7
2.5°	5878.6	5880.9	5885.5	5904.1	5920.4	5915.7	5918.0	5908.7	5906.4	5892.5	5906.4
5°	5804.2	5811.2	5813.5	5843.7	5862.3	5866.9	5860.0	5848.4	5834.4	5820.5	5827.5
7.5°	5634.7	5653.3	5655.6	5697.4	5727.6	5767.1	5769.4	5771.7	5764.7	5755.5	5769.4
10°	5527.8	5532.5	5530.2	5560.4	5583.6	5627.7	5653.3	5697.4	5716.0	5720.6	5729.9
12.5°	5520.9	5516.2	5509.3	5509.3	5502.3	5520.9	5567.3	5630.0	5674.2	5688.1	5699.7
15°	5595.2	5592.9	5569.6	5534.8	5490.7	5476.7	5516.2	5585.9	5644.0	5674.2	5685.8
17.5°	5762.4	5748.5	5711.3	5632.4	5537.1	5500.0	5504.6	5562.7	5630.0	5669.5	5681.1
20°	6069.0	6069.0	5990.0	5841.4	5671.8	5583.6	5541.8	5576.6	5641.6	5695.1	5711.3
22.5°	6598.6	6603.2	6470.8	6226.9	5941.3	5753.1	5648.6	5641.6	5718.3	5778.7	5797.3
25°	7348.8	7330.2	7144.4	6796.0	6361.7	6050.4	5869.3	5827.5	5892.5	5959.8	5983.1
27.5°	8222.1	8154.7	7934.1	7513.7	6951.6	6496.4	6217.7	6150.3	6213.0	6289.7	6312.9
30°	9086.1	9016.4	8754.0	8294.1	7669.3	7093.3	6693.8	6584.6	6672.9	6782.1	6796.0
32.5°	9950.1	9950.1	9657.5	9120.9	8440.4	7806.3	7327.9	7197.8	7344.1	7476.5	7506.7
35°	10983.7	10988.3	10705.0	10059.3	9327.6	8656.4	8129.2	8033.9	8254.6	8347.5	8419.5
37.5°	12254.2	12279.7	11915.0	11134.6	10333.3	9627.3	9000.2	8870.1	9090.7	9343.9	9576.2
40°	13626.8	13659.3	13257.5	12296.0	11494.7	10756.1	10077.9	9843.3	10210.2	10693.3	10993.0
42.5°	14936.8	15104.0	14716.1	13726.7	12865.0	12100.9	11413.4	11071.9	11531.8	12261.1	12521.3
45°	16829.7	16950.5	16274.6	15378.1	14567.5	13712.8	12802.3	12442.3	13085.6	14005.4	14058.8
47.5°	18090.9	18000.3	17656.6	17099.1	16585.8	15786.9	14416.5	14021.7	14876.4	15958.7	15659.1
50°	18762.1	18790.0	18743.6	18776.1	18794.7	18293.0	16395.4	15854.2	16873.8	18181.5	17491.7
52.5°	19389.2	19203.4	19356.7	20118.5	21038.3	20852.5	18548.5	17984.1	19015.3	20648.1	19428.7
55°	19375.3	19091.9	19591.3	20936.1	22931.2	23144.9	20966.3	20316.0	21279.9	23293.6	21481.9
57.5°	18690.1	18704.1	19472.9	21233.4	24250.5	25300.3	23772.0	22796.5	23681.4	25973.9	23356.3
60°	17747.1	17874.9	18982.8	21184.6	25307.3	27067.8	27214.2	25469.9	26034.3	28410.3	24907.8
62.5°	16225.8	16360.5	17888.8	20678.3	25147.0	28770.3	30326.5	28503.2	28493.9	29887.5	25363.0
65°	13826.6	13787.1	15392.0	18785.4	23802.2	30029.2	33417.9	31125.4	30347.4	29910.7	24447.9
67.5°	10196.3	10019.8	11397.1	14307.3	19784.1	28619.3	35236.5	32491.2	30979.1	27943.5	21651.5
70°	5290.9	5114.4	6229.3	8354.5	13011.3	22336.6	33222.8	31785.1	29583.2	23423.6	16962.1
72.5°	2262.2	2232.0	2685.0	3665.1	6294.3	12883.6	26050.5	27511.5	25383.9	17452.2	11661.9
75°	1521.3	1512.0	1681.6	1997.5	2831.3	5228.2	16302.5	19528.6	18571.7	10821.1	6559.1
77.5°	1193.8	1182.2	1282.1	1435.4	1834.9	2062.5	7235.0	10484.3	9703.9	4710.3	2870.8
80°	933.7	924.4	987.1	1070.7	1319.2	1300.7	2380.7	4171.4	3228.4	1804.7	1395.9
82.5°	736.3	736.3	787.4	789.7	936.0	887.2	1242.6	1837.2	1611.9	1052.1	854.7
85°	673.6	673.6	727.0	589.9	610.8	559.8	771.1	1089.3	1022.0	432.0	371.6
87.5°	339.1	329.8	610.8	522.6	332.1	297.3	376.3	527.2	566.7	239.2	185.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5929.7	5929.7	5929.7	5929.7	5929.7	5929.7	5929.7	5929.7	5929.7	5929.7
2.5°	5901.8	5899.5	5904.1	5906.4	5925.0	5950.6	5962.2	5978.4	5987.7	5983.1
5°	5832.1	5836.7	5855.3	5869.3	5901.8	5943.6	5966.8	5985.4	6001.7	5994.7
7.5°	5774.0	5785.6	5813.5	5825.1	5843.7	5855.3	5853.0	5860.0	5873.9	5857.7
10°	5741.5	5755.5	5776.4	5760.1	5716.0	5653.3	5595.2	5565.0	5574.3	5562.7
12.5°	5709.0	5727.6	5711.3	5634.7	5511.6	5430.3	5386.2	5390.8	5411.7	5416.4
15°	5690.4	5697.4	5627.7	5483.7	5358.3	5346.7	5369.9	5365.3	5367.6	5367.6
17.5°	5690.4	5671.8	5541.8	5397.8	5344.4	5323.4	5251.4	5160.9	5121.4	5107.4
20°	5720.6	5671.8	5513.9	5418.7	5302.5	5123.7	4933.2	4766.0	4691.7	4670.8
22.5°	5811.2	5727.6	5592.9	5428.0	5098.2	4798.5	4496.6	4296.8	4162.1	4138.9
25°	5994.7	5901.8	5748.5	5304.9	4773.0	4345.6	4001.9	3778.9	3644.2	3625.6
27.5°	6315.2	6254.8	5832.1	5033.1	4341.0	3883.4	3565.2	3393.3	3293.5	3286.5
30°	6798.3	6768.1	5790.3	4631.3	3809.1	3435.2	3281.9	3182.0	3107.7	3105.3
32.5°	7569.4	7325.5	5653.3	4141.2	3323.7	3117.0	3054.2	2993.9	2935.8	2935.8
35°	8561.2	7776.1	5393.1	3616.3	3028.7	2940.4	2861.5	2766.2	2689.6	2685.0
37.5°	9727.1	8054.9	4926.3	3193.6	2889.3	2822.0	2705.9	2564.2	2429.5	2406.2
40°	10904.7	8138.5	4269.0	2933.5	2801.1	2703.5	2561.9	2394.6	2264.6	2257.6
42.5°	11984.7	7978.2	3572.2	2754.6	2712.8	2582.8	2434.1	2285.5	2183.3	2180.9
45°	12890.5	7562.5	2986.9	2585.1	2619.9	2473.6	2341.2	2220.4	2141.5	2125.2
47.5°	13743.0	6974.8	2575.8	2406.2	2527.0	2413.2	2301.7	2187.9	2111.3	2099.6
50°	14732.4	6340.8	2287.8	2232.0	2445.7	2392.3	2334.2	2215.8	2088.0	2074.1
52.5°	15930.9	5792.6	2062.5	2078.7	2383.0	2420.2	2417.8	2294.7	2071.8	2053.2
55°	17268.7	5184.1	1892.9	1953.3	2357.5	2471.3	2438.8	2369.1	2085.7	2057.8
57.5°	18585.6	4473.4	1774.5	1858.1	2320.3	2466.6	2338.9	2239.0	2118.2	2078.7
60°	19572.7	3518.8	1683.9	1774.5	2239.0	2390.0	2229.7	2097.3	2111.3	2081.1
62.5°	19637.8	2719.8	1574.7	1702.5	2115.9	2313.3	2157.7	2034.6	2141.5	2113.6
65°	18483.4	2055.5	1470.2	1616.5	1983.5	2264.6	2088.0	1999.8	2204.2	2174.0
67.5°	15561.6	1653.7	1382.0	1528.3	1851.1	2162.4	2025.3	1967.3	2259.9	2206.5
70°	11234.5	1409.8	1296.0	1421.4	1732.7	2046.2	1969.6	1909.2	2108.9	2025.3
72.5°	6916.8	1221.7	1198.5	1279.8	1642.1	1925.5	1886.0	1800.0	1899.9	1832.5
75°	3453.7	1059.1	1089.3	1140.4	1514.3	1788.4	1746.6	1660.7	1674.6	1660.7
77.5°	1653.7	905.8	961.6	1001.0	1349.4	1632.8	1588.7	1500.4	1484.2	1486.5
80°	1047.5	757.2	810.6	838.5	1205.4	1451.6	1407.5	1319.2	1505.1	1395.9
82.5°	655.0	615.5	629.4	680.5	1049.8	1263.5	1205.4	1126.5	1356.4	1073.1
85°	362.3	429.7	448.3	492.4	808.3	1056.8	998.7	898.9	805.9	792.0
87.5°	216.0	255.5	262.5	295.0	543.5	764.1	675.9	641.0	531.9	529.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)