

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: P321542

Luminaire Tested: **GAN-SA8D-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39996 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

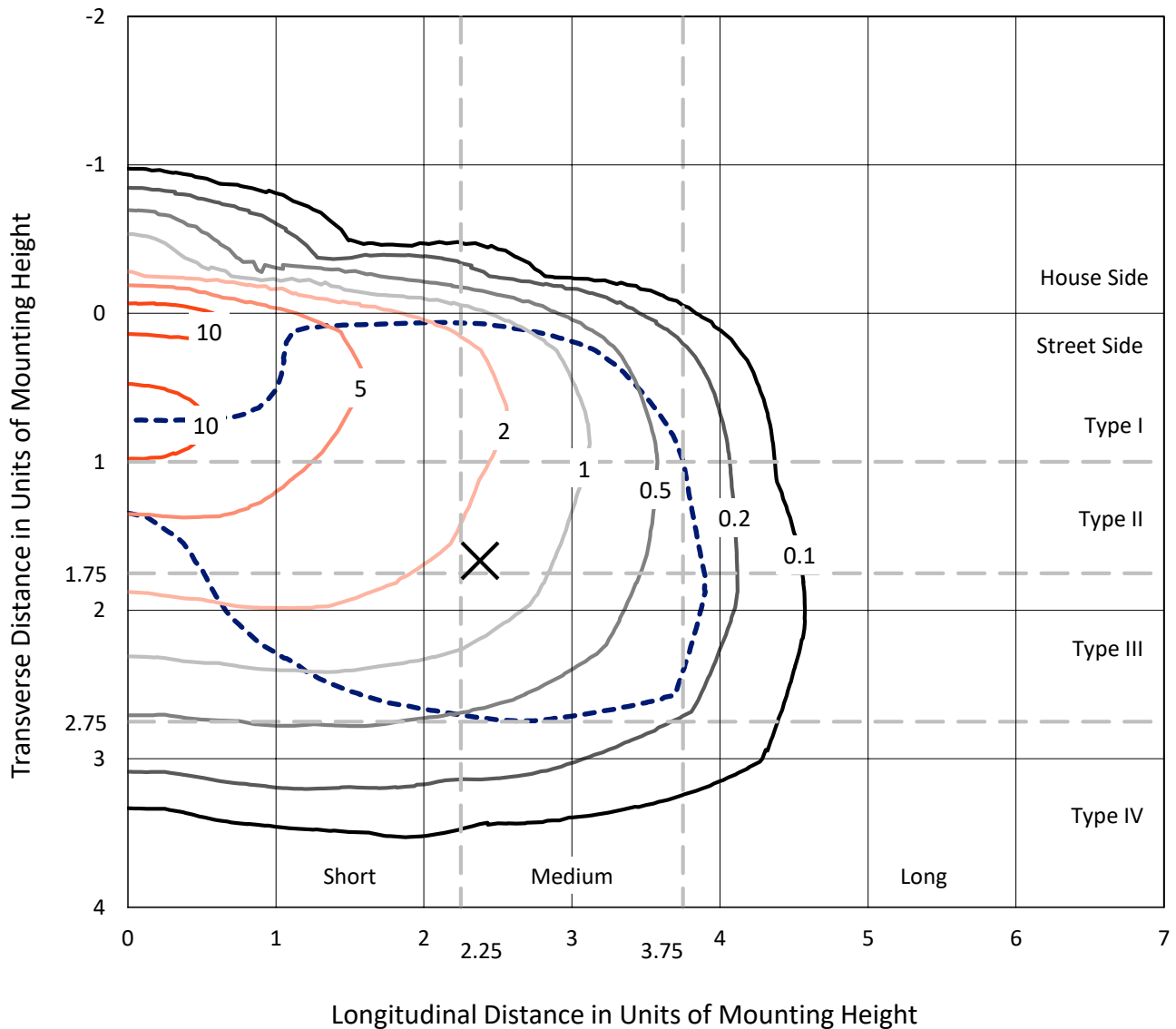
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

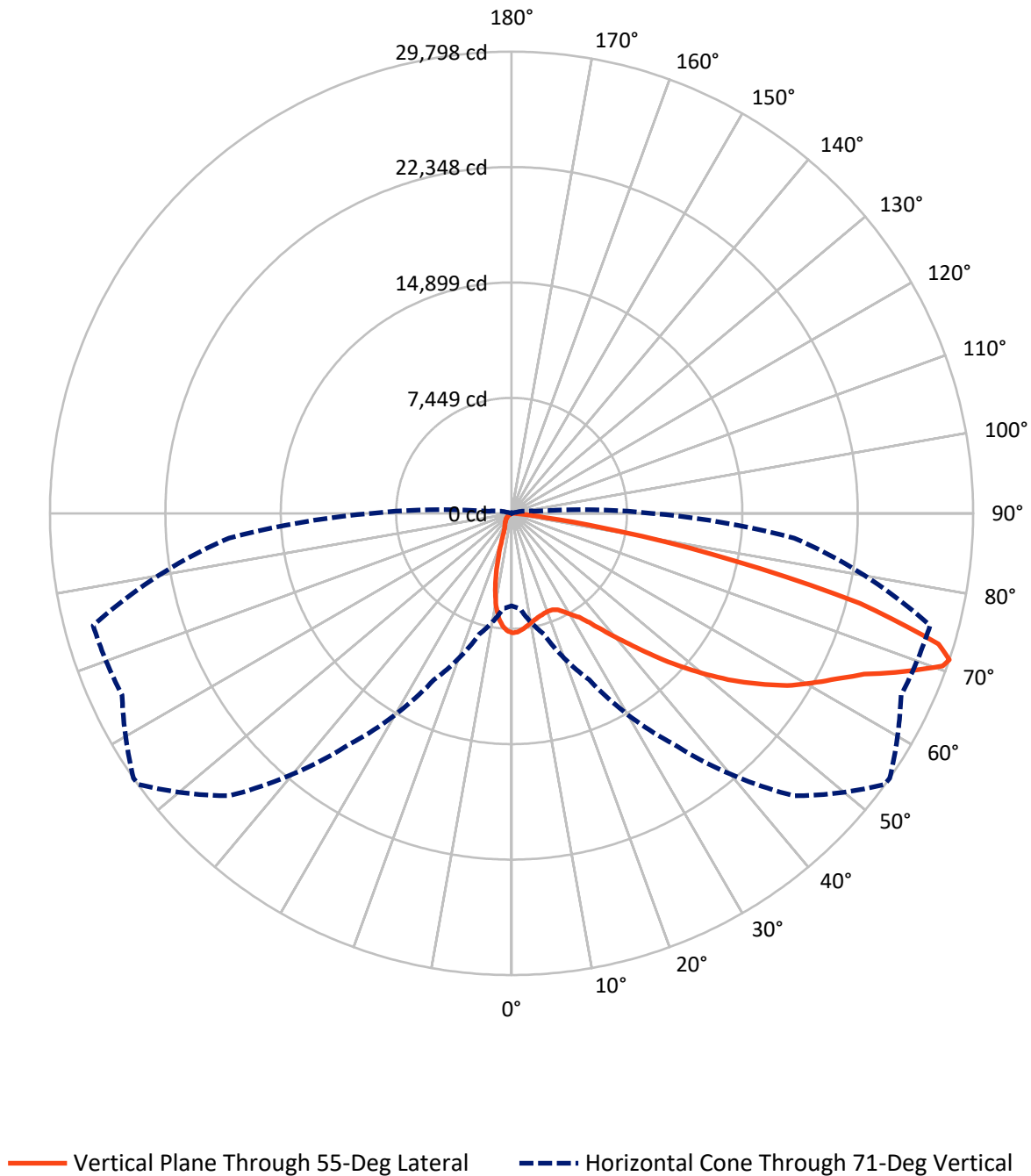
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3166.6	0.0	3166.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	36829.4	0.0	36829.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	39996.0	0.0	39996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.7	1.6
10°-20°	1484.7	3.7
20°-30°	2386.0	6.0
30°-40°	4054.0	10.1
40°-50°	6292.3	15.7
50°-60°	8459.8	21.2
60°-70°	10349.1	25.9
70°-80°	6050.9	15.1
80°-90°	261.6	0.7
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°	39996.0	100.0
0°-180°	39996.0	100.0

Coefficient of Utilization



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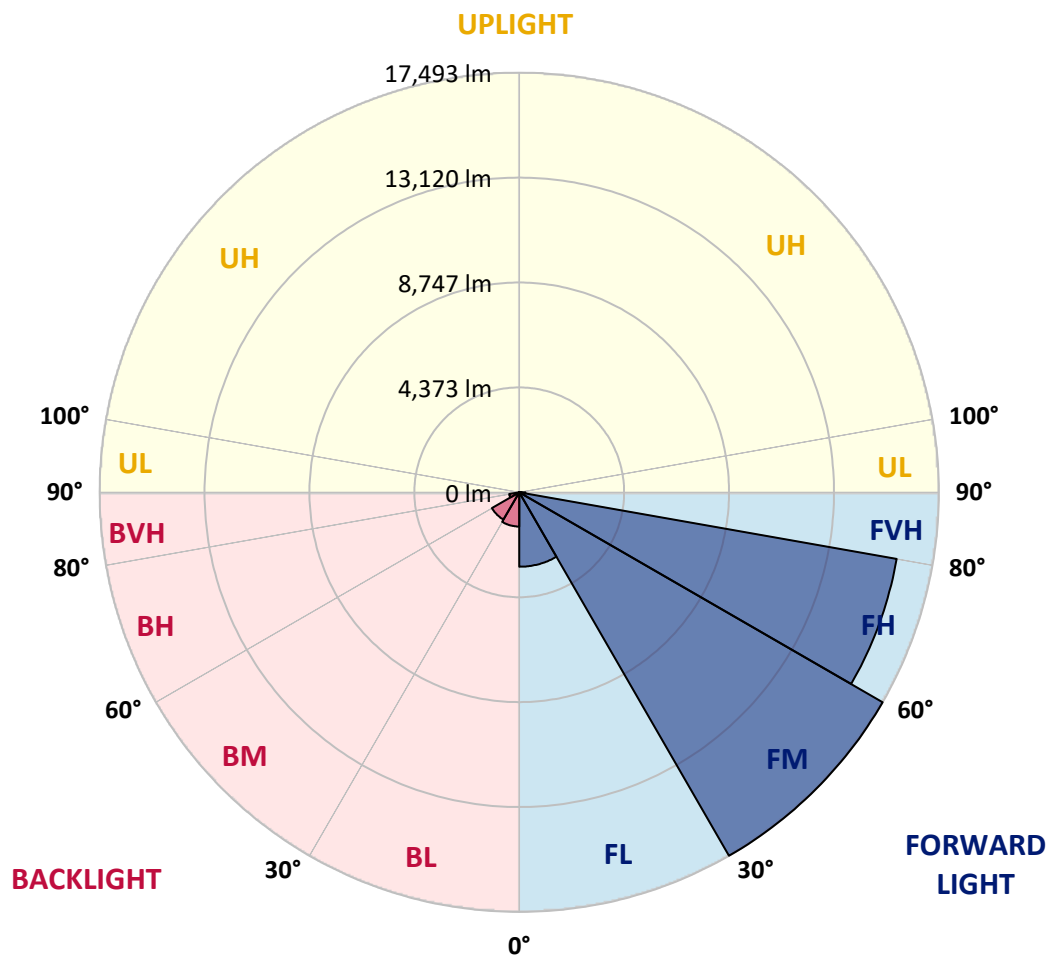
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3103.1	7.8			
FM	(30°-60°)	17493.1	43.7			
FH	(60°-80°)	15975.8	39.9			G5
FVH	(80°-90°)	257.4	0.6			G3/500
BL	(0°-30°)	1425.3	3.6	B3/2500		
BM	(30°-60°)	1312.9	3.3	B2/2500		
BH	(60°-80°)	424.3	1.1	B1/500		G1/500
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4
2.5°	7487.1	7496.1	7528.4	7542.8	7576.9	7634.4	7663.1	7664.9	7711.6	7729.5	7743.9
5°	6957.3	7011.2	7065.1	7122.5	7226.7	7365.0	7501.5	7514.0	7664.9	7776.2	7835.5
7.5°	6501.1	6549.6	6614.3	6705.9	6853.1	7070.4	7298.5	7325.5	7611.0	7864.2	7997.1
10°	6032.4	6071.9	6165.3	6300.0	6502.9	6793.9	7101.0	7145.9	7562.5	7982.8	8216.2
12.5°	5531.4	5554.7	5667.8	5861.8	6159.9	6529.9	6934.0	6993.2	7532.0	8119.2	8474.8
15°	5150.6	5161.4	5269.2	5470.3	5811.5	6292.8	6804.6	6876.5	7539.2	8282.7	8756.8
17.5°	5053.7	5059.0	5116.5	5254.8	5556.5	6080.9	6702.3	6790.3	7560.7	8442.5	9040.5
20°	5447.0	5409.2	5350.0	5328.4	5457.7	5953.4	6641.2	6740.0	7589.5	8584.4	9295.6
22.5°	6526.3	6414.9	6168.9	5840.3	5640.9	5962.4	6657.4	6756.2	7681.0	8758.6	9590.1
25°	8128.2	7973.8	7555.3	6908.8	6287.4	6221.0	6792.1	6892.6	7858.8	8966.9	9872.0
27.5°	9951.1	9798.4	9286.6	8363.5	7303.9	6732.8	7101.0	7194.4	8122.8	9151.9	10087.5
30°	11696.7	11653.6	11050.1	10001.3	8582.6	7562.5	7499.7	7578.7	8318.6	9263.2	10258.2
32.5°	13176.5	13108.2	12623.4	11603.3	10046.2	8559.2	7968.4	7991.7	8465.9	9406.9	10480.8
35°	14548.6	14464.1	14038.5	13074.1	11547.6	9776.9	8690.3	8656.2	8787.3	9696.0	10804.1
37.5°	15746.4	15823.6	15351.3	14433.6	12894.5	11043.0	9663.7	9561.3	9290.2	10166.6	11272.8
40°	16748.5	16748.5	16502.5	15737.4	14349.2	12352.2	10764.6	10629.9	10046.2	10892.1	11867.3
42.5°	17109.5	17186.7	17278.3	16845.5	15651.2	13713.5	11991.2	11851.1	11111.2	11921.2	12618.0
45°	17131.0	17253.2	17721.9	17720.1	16827.5	15065.8	13374.0	13307.6	12476.1	13242.9	13548.2
47.5°	16827.5	16980.2	17752.4	18190.6	17759.6	16324.7	14886.2	14803.6	14079.8	14862.8	14521.6
50°	16358.8	16527.6	17425.6	18375.6	18393.6	17420.2	16479.1	16355.2	15845.2	16714.4	15527.3
52.5°	15520.1	15847.0	17132.8	18418.7	18810.2	18366.6	17994.9	17941.0	17820.7	18497.7	16328.3
55°	13726.0	14088.8	16398.3	18433.1	19196.3	19205.3	19415.4	19429.8	19672.2	20164.3	16924.5
57.5°	12878.4	13083.1	15116.1	18501.3	19769.2	20157.1	20862.9	20974.3	21349.6	21746.5	17605.2
60°	12345.0	12587.4	14483.9	18407.9	20669.0	21405.3	22204.5	22242.2	22644.4	23379.0	18526.5
62.5°	11919.4	12158.2	14085.2	18048.8	21680.1	22906.6	23515.5	23519.1	23820.8	25323.9	19573.5
65°	10868.8	11069.9	13278.9	17644.7	22348.1	24391.9	25038.4	25015.0	25261.1	27374.8	20789.3
67.5°	9349.4	9503.9	11632.0	16112.8	22096.7	25742.4	27337.1	27259.9	26961.8	29147.4	21267.0
70°	7228.5	7284.2	9168.0	13427.9	19740.5	26261.4	29558.6	29519.1	28005.2	28829.5	19516.0
71°	5974.9	6158.1	8079.7	11851.1	18161.9	25781.9	29774.2	29797.5	27743.0	27963.9	18311.0
72.5°	3469.7	3625.9	5856.4	9101.6	15419.6	23781.3	28657.1	28825.9	26518.2	25435.3	15640.5
75°	743.5	795.6	2171.2	4405.3	8482.0	16667.7	22619.3	23220.9	21613.6	17303.5	9426.7
77.5°	517.2	558.5	930.3	1998.8	2803.4	8236.0	14051.1	14729.9	12912.5	6502.9	3017.1
80°	409.5	456.2	725.5	987.7	757.9	2656.1	6582.0	6996.8	4306.6	1451.1	508.2
82.5°	228.1	271.2	565.7	533.4	290.9	504.6	1842.6	2083.2	862.0	292.7	120.3
85°	66.4	80.8	364.6	387.9	123.9	97.0	314.3	389.7	163.4	77.2	53.9
87.5°	0.0	0.0	176.0	149.1	35.9	14.4	28.7	32.3	32.3	32.3	35.9
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°	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4	7713.4
2.5°	7743.9	7756.5	7711.6	7652.3	7589.5	7512.2	7431.4	7368.6	7366.8	7336.2	7305.7
5°	7839.1	7831.9	7708.0	7519.4	7296.7	7065.1	6844.2	6594.5	6511.9	6409.6	6375.4
7.5°	8015.1	7964.8	7702.6	7289.5	6801.1	6316.2	5815.1	5310.5	5095.0	4901.0	4866.9
10°	8236.0	8140.8	7668.5	6944.7	6048.6	5154.2	4398.1	3712.1	3410.4	3178.7	3168.0
12.5°	8465.9	8320.4	7573.3	6423.9	5062.6	3805.5	2934.5	2259.2	2007.8	1846.2	1860.5
15°	8706.5	8489.2	7368.6	5721.7	3940.2	2582.5	1803.1	1406.2	1305.6	1264.3	1275.1
17.5°	8952.5	8605.9	7083.0	4875.9	2832.1	1666.6	1248.1	1136.8	1136.8	1145.8	1149.4
20°	9166.3	8668.8	6662.8	3927.6	1919.8	1214.0	1091.9	1075.7	1084.7	1099.1	1100.9
22.5°	9378.2	8672.4	6115.0	2966.8	1343.3	1063.2	1039.8	1032.6	1038.0	1054.2	1056.0
25°	9550.6	8629.3	5429.0	2110.2	1072.1	1002.1	991.3	987.7	991.3	1011.1	1011.1
27.5°	9620.6	8473.0	4592.1	1483.4	960.8	933.9	930.3	933.9	939.3	953.6	955.4
30°	9627.8	8200.1	3679.8	1073.9	871.0	842.3	849.5	862.0	856.6	853.1	856.6
32.5°	9645.8	7884.0	2790.8	883.6	795.6	750.7	741.7	741.7	720.2	707.6	700.4
35°	9705.0	7512.2	2024.0	793.8	718.4	666.3	632.2	592.6	551.3	529.8	524.4
37.5°	9798.4	7122.5	1449.3	734.5	650.1	590.8	526.2	456.2	396.9	380.7	380.7
40°	9969.0	6720.2	1072.1	687.8	596.2	522.6	425.6	334.0	280.2	271.2	271.2
42.5°	10238.4	6296.4	854.8	646.5	549.5	452.6	325.1	242.4	202.9	197.5	195.8
45°	10518.6	5829.5	747.1	607.0	499.3	371.8	240.7	179.6	156.2	150.9	150.9
47.5°	10798.7	5332.0	695.0	569.3	450.8	289.1	179.6	141.9	131.1	131.1	132.9
50°	11035.8	4813.0	657.3	528.0	387.9	219.1	141.9	120.3	116.7	123.9	125.7
52.5°	11095.0	4303.0	610.6	475.9	310.7	167.0	116.7	106.0	106.0	106.0	106.0
55°	11059.1	3907.9	549.5	411.3	229.9	132.9	100.6	93.4	91.6	91.6	91.6
57.5°	11181.2	3674.4	440.0	319.7	165.2	107.8	88.0	82.6	79.0	77.2	77.2
60°	11427.3	3521.8	314.3	229.9	123.9	89.8	75.4	70.0	64.7	61.1	61.1
62.5°	11754.1	3388.9	233.5	170.6	95.2	71.8	62.9	57.5	50.3	46.7	46.7
65°	12005.6	3151.8	177.8	127.5	71.8	57.5	48.5	46.7	35.9	32.3	30.5
67.5°	11621.2	2631.0	143.7	93.4	53.9	44.9	37.7	35.9	21.6	18.0	18.0
70°	9967.2	1831.8	114.9	68.2	39.5	35.9	30.5	23.3	16.2	14.4	14.4
71°	9038.7	1530.1	104.2	57.5	34.1	34.1	28.7	19.8	14.4	12.6	12.6
72.5°	7508.6	1086.5	88.0	44.9	30.5	35.9	30.5	18.0	14.4	12.6	10.8
75°	4358.6	454.4	61.1	30.5	23.3	43.1	39.5	16.2	10.8	9.0	9.0
77.5°	1311.0	167.0	34.1	19.8	18.0	37.7	44.9	14.4	5.4	1.8	1.8
80°	238.9	71.8	21.6	12.6	12.6	23.3	34.1	7.2	0.0	0.0	0.0
82.5°	84.4	35.9	12.6	7.2	5.4	10.8	16.2	0.0	0.0	0.0	0.0
85°	48.5	25.1	7.2	3.6	0.0	1.8	3.6	0.0	0.0	0.0	0.0
87.5°	32.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)