

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: P321734

Luminaire Tested: **GAN-SA0C-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321734
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-SA0C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA 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: 39582 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

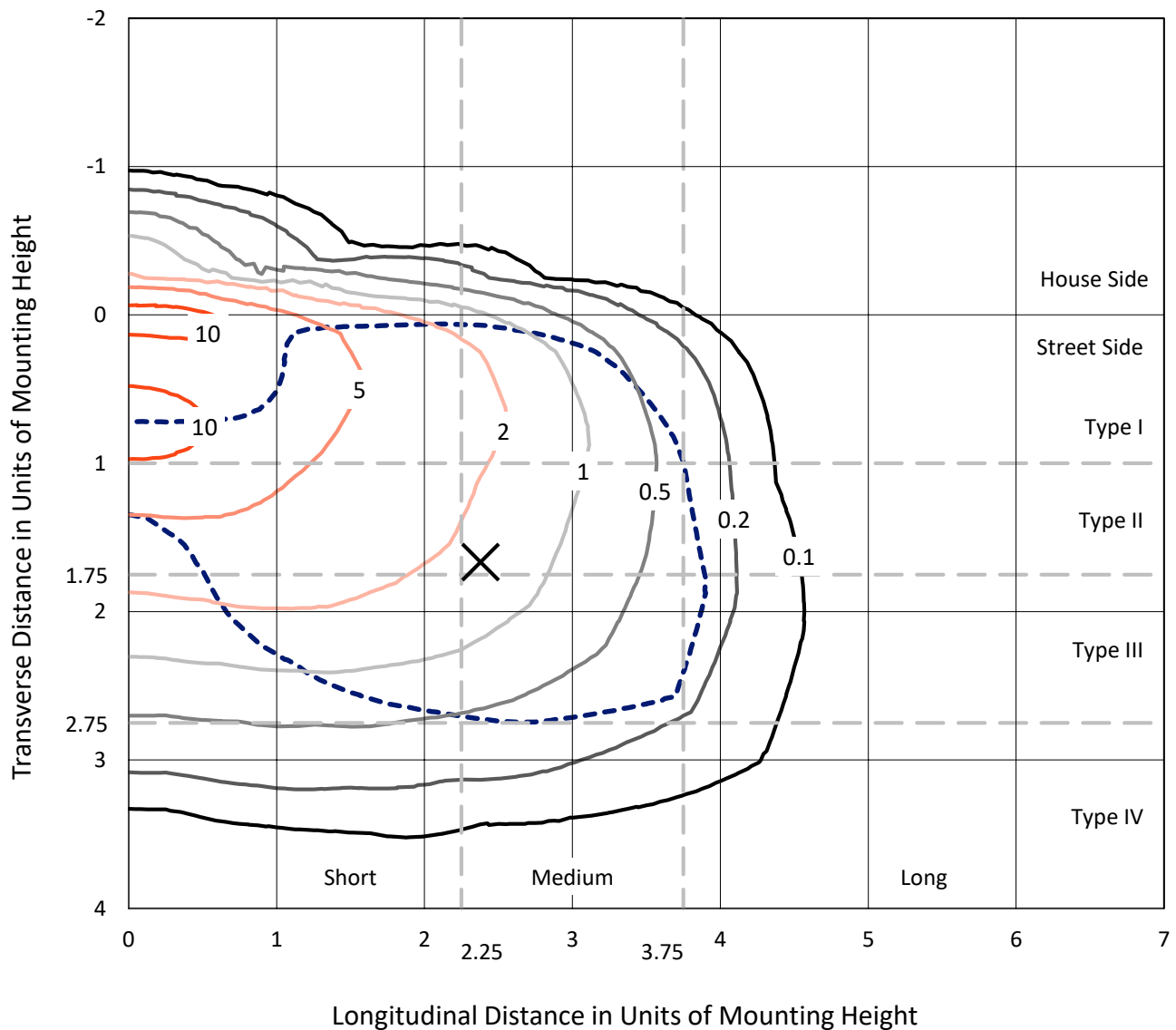
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

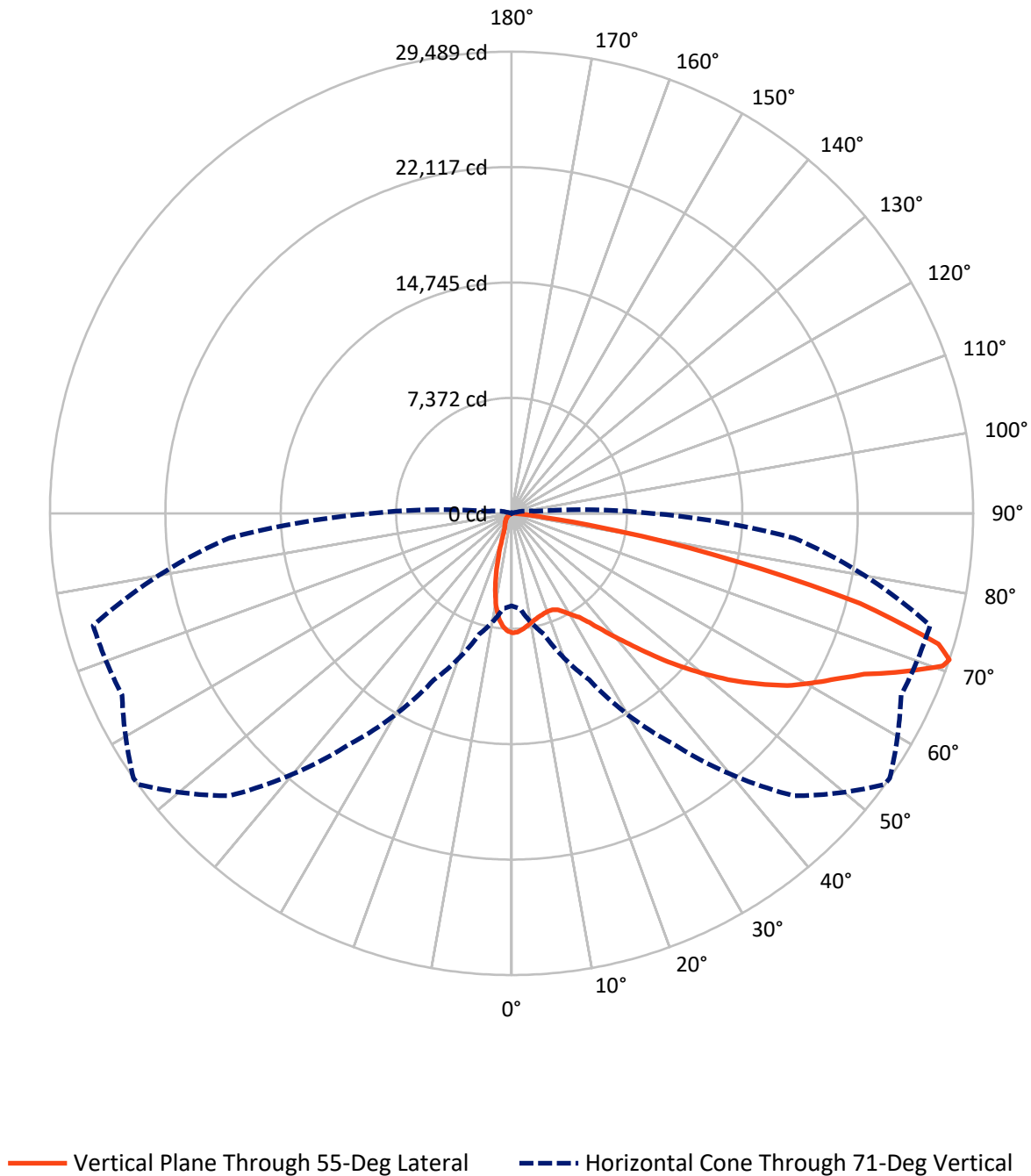
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	3133.8	0.0	3133.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	36448.2	0.0	36448.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	39582.0	0.0	39582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.9	1.6
10°-20°	1469.4	3.7
20°-30°	2361.3	6.0
30°-40°	4012.0	10.1
40°-50°	6227.1	15.7
50°-60°	8372.2	21.2
60°-70°	10242.0	25.9
70°-80°	5988.3	15.1
80°-90°	258.8	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°	39582.0	100.0
0°-180°	39582.0	100.0

Coefficient of Utilization



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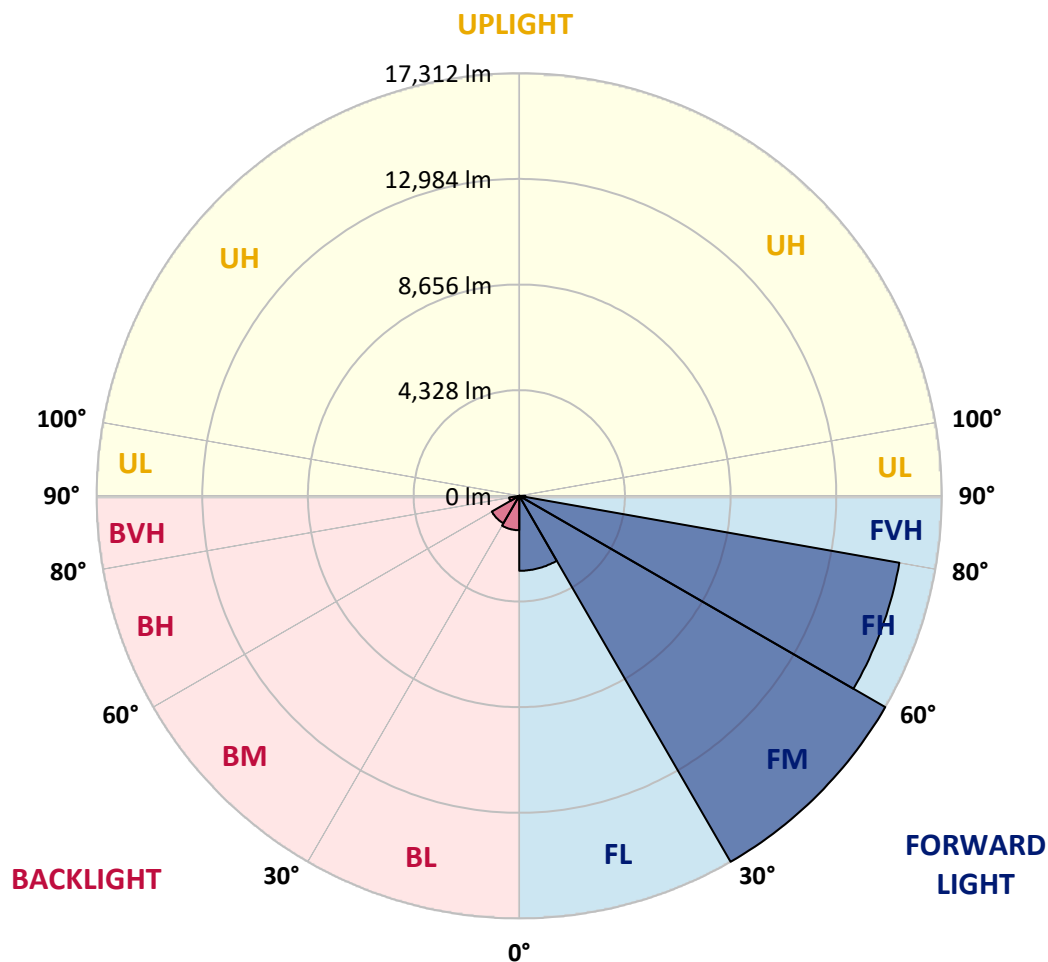
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3071.0	7.8			
FM	(30°-60°)	17312.0	43.7			
FH	(60°-80°)	15810.4	39.9			G5
FVH	(80°-90°)	254.8	0.6			G3/500
BL	(0°-30°)	1410.5	3.6	B3/2500		
BM	(30°-60°)	1299.3	3.3	B2/2500		
BH	(60°-80°)	419.9	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°	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5
2.5°	7409.6	7418.5	7450.5	7464.7	7498.5	7555.3	7583.8	7585.5	7631.8	7649.5	7663.7
5°	6885.3	6938.6	6991.9	7048.8	7151.9	7288.7	7423.8	7436.2	7585.5	7695.7	7754.4
7.5°	6433.8	6481.8	6545.8	6636.5	6782.2	6997.3	7223.0	7249.6	7532.2	7782.8	7914.3
10°	5970.0	6009.1	6101.5	6234.8	6435.6	6723.5	7027.5	7071.9	7484.2	7900.1	8131.2
12.5°	5474.1	5497.2	5609.2	5801.1	6096.2	6462.3	6862.2	6920.8	7454.0	8035.2	8387.1
15°	5097.3	5108.0	5214.6	5413.7	5751.4	6227.7	6734.2	6805.3	7461.1	8196.9	8666.1
17.5°	5001.3	5006.7	5063.5	5200.4	5499.0	6018.0	6632.9	6720.0	7482.5	8355.1	8947.0
20°	5390.6	5353.2	5294.6	5273.3	5401.2	5891.8	6572.5	6670.2	7510.9	8495.5	9199.3
22.5°	6458.7	6348.5	6105.0	5779.8	5582.5	5900.7	6588.5	6686.2	7601.5	8667.9	9490.8
25°	8044.1	7891.2	7477.1	6837.3	6222.3	6156.6	6721.8	6821.3	7777.5	8874.1	9769.9
27.5°	9848.1	9697.0	9190.5	8276.9	7228.3	6663.1	7027.5	7119.9	8038.8	9057.2	9983.1
30°	11575.6	11532.9	10935.8	9897.8	8493.7	7484.2	7422.0	7500.2	8232.5	9167.3	10152.0
32.5°	13040.1	12972.6	12492.7	11483.2	9942.3	8470.6	7885.9	7909.0	8378.2	9309.5	10372.4
35°	14398.0	14314.4	13893.2	12938.8	11428.1	9675.7	8600.4	8566.6	8696.4	9595.7	10692.3
37.5°	15583.4	15659.8	15192.4	14284.2	12761.1	10928.7	9563.7	9462.4	9194.0	10061.3	11156.2
40°	16575.2	16575.2	16331.7	15574.5	14200.7	12224.3	10653.2	10519.9	9942.3	10779.4	11744.4
42.5°	16932.4	17008.8	17099.5	16671.1	15489.2	13571.5	11867.1	11728.4	10996.2	11797.8	12487.4
45°	16953.7	17074.6	17538.5	17536.7	16653.4	14909.8	13235.6	13169.8	12346.9	13105.9	13408.0
47.5°	16653.4	16804.4	17568.7	18002.3	17575.8	16155.7	14732.1	14650.3	13934.1	14709.0	14371.3
50°	16189.5	16356.6	17245.2	18185.4	18203.2	17239.9	16308.6	16185.9	15681.2	16541.4	15366.6
52.5°	15359.5	15683.0	16955.5	18228.1	18615.5	18176.5	17808.6	17755.3	17636.2	18306.3	16159.3
55°	13584.0	13943.0	16228.6	18242.3	18997.6	19006.5	19214.5	19228.7	19468.6	19955.6	16749.3
57.5°	12745.1	12947.7	14959.6	18309.8	19564.6	19948.5	20647.0	20757.2	21128.6	21521.4	17422.9
60°	12217.2	12457.1	14334.0	18217.4	20455.0	21183.7	21974.6	22011.9	22410.1	23137.0	18334.7
62.5°	11796.0	12032.4	13939.4	17861.9	21455.6	22669.5	23272.0	23275.6	23574.2	25061.8	19370.9
65°	10756.3	10955.3	13141.4	17462.0	22116.8	24139.4	24779.2	24756.1	24999.6	27091.5	20574.1
67.5°	9252.7	9405.5	11511.6	15946.0	21868.0	25475.9	27054.2	26977.7	26682.7	28845.7	21046.9
70°	7153.7	7208.8	9073.1	13288.9	19536.2	25989.6	29252.7	29213.6	27715.3	28531.1	19314.0
71°	5913.1	6094.4	7996.1	11728.4	17973.9	25515.0	29466.0	29489.1	27455.8	27674.4	18121.4
72.5°	3433.8	3588.4	5795.8	9007.4	15260.0	23535.1	28360.5	28527.5	26243.7	25172.0	15478.6
75°	735.8	787.3	2148.8	4359.7	8394.2	16495.2	22385.2	22980.6	21389.9	17124.3	9329.1
77.5°	511.9	552.7	920.6	1978.1	2774.4	8150.7	13905.6	14577.5	12778.8	6435.6	2985.9
80°	405.2	451.4	718.0	977.5	750.0	2628.6	6513.8	6924.4	4262.0	1436.1	503.0
82.5°	225.7	268.4	559.9	527.9	287.9	499.4	1823.5	2061.7	853.1	289.7	119.1
85°	65.8	80.0	360.8	383.9	122.6	96.0	311.0	385.7	161.7	76.4	53.3
87.5°	0.0	0.0	174.2	147.5	35.5	14.2	28.4	32.0	32.0	32.0	35.5
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°	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5	7633.5
2.5°	7663.7	7676.2	7631.8	7573.1	7510.9	7434.5	7354.5	7292.3	7290.5	7260.3	7230.1
5°	7757.9	7750.8	7628.2	7441.6	7221.2	6991.9	6773.3	6526.3	6444.5	6343.2	6309.4
7.5°	7932.1	7882.4	7622.9	7214.1	6730.7	6250.8	5754.9	5255.5	5042.2	4850.3	4816.5
10°	8150.7	8056.5	7589.1	6872.8	5986.0	5100.9	4352.6	3673.7	3375.1	3145.8	3135.2
12.5°	8378.2	8234.3	7494.9	6357.4	5010.2	3766.1	2904.1	2235.9	1987.0	1827.1	1841.3
15°	8616.4	8401.3	7292.3	5662.5	3899.4	2555.8	1784.4	1391.6	1292.1	1251.2	1261.9
17.5°	8859.9	8516.9	7009.7	4825.4	2802.8	1649.3	1235.2	1125.0	1125.0	1133.9	1137.5
20°	9071.4	8579.1	6593.8	3887.0	1899.9	1201.5	1080.6	1064.6	1073.5	1087.7	1089.5
22.5°	9281.1	8582.6	6051.7	2936.1	1329.4	1052.2	1029.1	1022.0	1027.3	1043.3	1045.1
25°	9451.7	8540.0	5372.8	2088.3	1061.1	991.7	981.1	977.5	981.1	1000.6	1000.6
27.5°	9521.0	8385.3	4544.6	1468.1	950.9	924.2	920.6	924.2	929.5	943.7	945.5
30°	9528.1	8115.2	3641.7	1062.8	862.0	833.6	840.7	853.1	847.8	844.2	847.8
32.5°	9545.9	7802.4	2761.9	874.4	787.3	742.9	734.0	734.0	712.7	700.3	693.1
35°	9604.6	7434.5	2003.0	785.6	710.9	659.4	625.6	586.5	545.6	524.3	519.0
37.5°	9697.0	7048.8	1434.3	726.9	643.4	584.7	520.8	451.4	392.8	376.8	376.8
40°	9865.8	6650.7	1061.1	680.7	590.1	517.2	421.2	330.6	277.3	268.4	268.4
42.5°	10132.4	6231.2	846.0	639.8	543.9	447.9	321.7	239.9	200.8	195.5	193.7
45°	10409.7	5769.1	739.4	600.7	494.1	367.9	238.2	177.7	154.6	149.3	149.3
47.5°	10686.9	5276.8	687.8	563.4	446.1	286.1	177.7	140.4	129.7	129.7	131.5
50°	10921.5	4763.2	650.5	522.5	383.9	216.8	140.4	119.1	115.5	122.6	124.4
52.5°	10980.2	4258.4	604.3	471.0	307.5	165.3	115.5	104.9	104.9	104.9	104.9
55°	10944.7	3867.4	543.9	407.0	227.5	131.5	99.5	92.4	90.6	90.6	90.6
57.5°	11065.5	3636.4	435.4	316.4	163.5	106.6	87.1	81.8	78.2	76.4	76.4
60°	11309.0	3485.3	311.0	227.5	122.6	88.9	74.6	69.3	64.0	60.4	60.4
62.5°	11632.5	3353.8	231.0	168.8	94.2	71.1	62.2	56.9	49.8	46.2	46.2
65°	11881.3	3119.2	176.0	126.2	71.1	56.9	48.0	46.2	35.5	32.0	30.2
67.5°	11500.9	2603.8	142.2	92.4	53.3	44.4	37.3	35.5	21.3	17.8	17.8
70°	9864.1	1812.9	113.7	67.5	39.1	35.5	30.2	23.1	16.0	14.2	14.2
71°	8945.2	1514.3	103.1	56.9	33.8	33.8	28.4	19.6	14.2	12.4	12.4
72.5°	7430.9	1075.3	87.1	44.4	30.2	35.5	30.2	17.8	14.2	12.4	10.7
75°	4313.5	449.7	60.4	30.2	23.1	42.7	39.1	16.0	10.7	8.9	8.9
77.5°	1297.4	165.3	33.8	19.6	17.8	37.3	44.4	14.2	5.3	1.8	1.8
80°	236.4	71.1	21.3	12.4	12.4	23.1	33.8	7.1	0.0	0.0	0.0
82.5°	83.5	35.5	12.4	7.1	5.3	10.7	16.0	0.0	0.0	0.0	0.0
85°	48.0	24.9	7.1	3.6	0.0	1.8	3.6	0.0	0.0	0.0	0.0
87.5°	32.0	7.1	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)