

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: P322693

Luminaire Tested: **GAN-SA9C-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33011 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

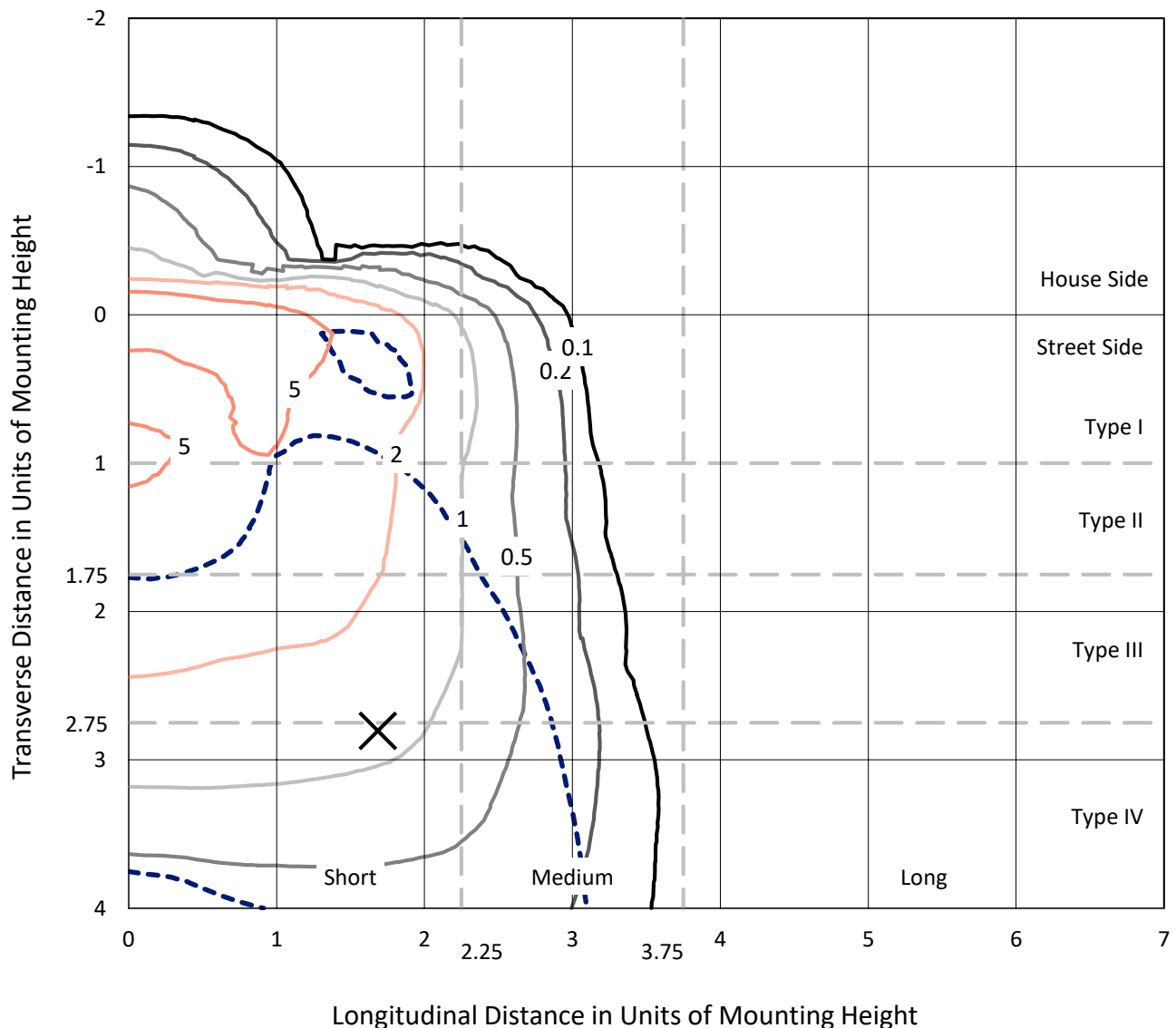
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

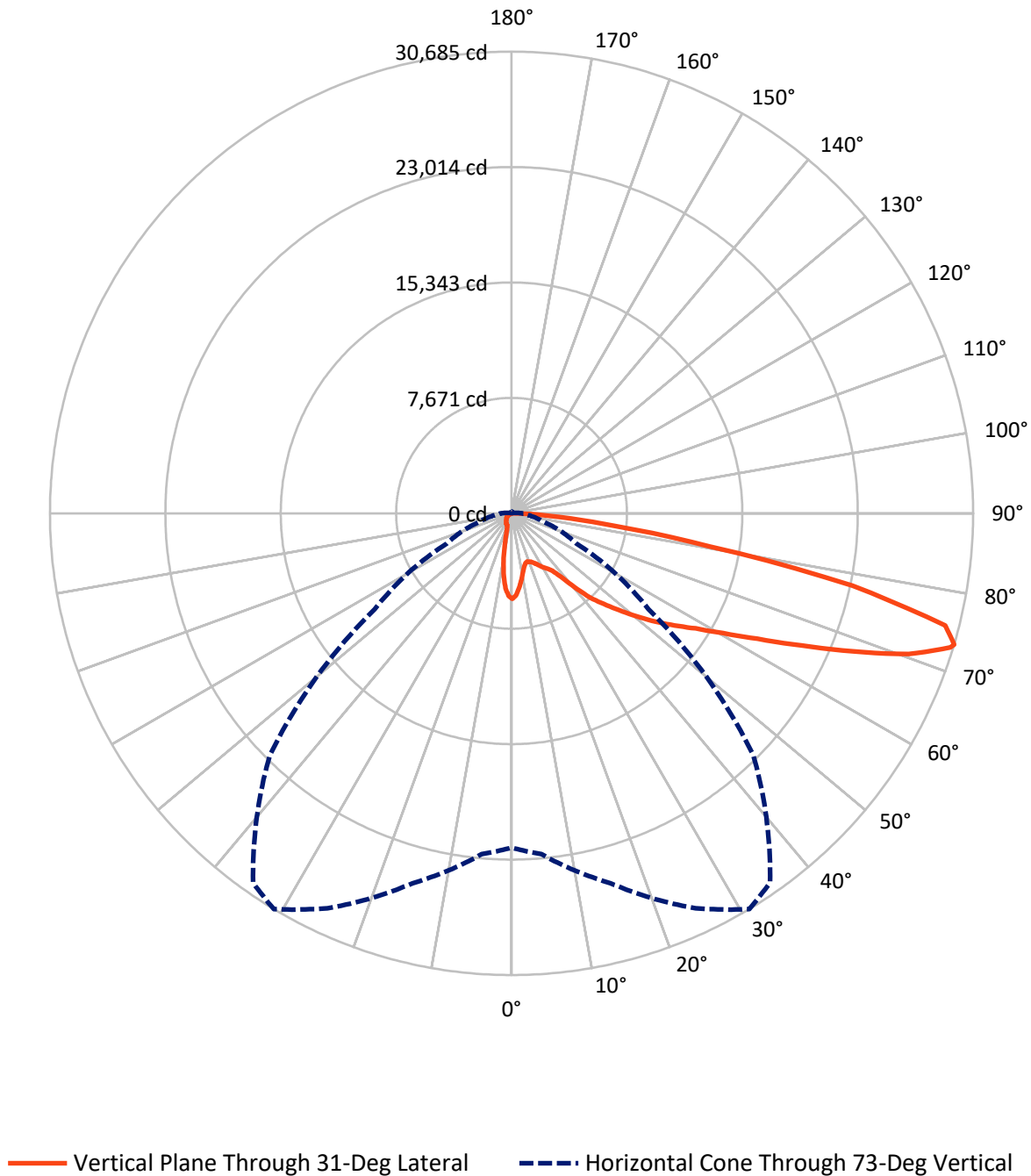
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3009.1	0.0	3009.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	30001.9	0.0	30001.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	33011.0	0.0	33011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.9	1.4
10°-20°	1022.5	3.1
20°-30°	1532.0	4.6
30°-40°	2437.4	7.4
40°-50°	4352.6	13.2
50°-60°	6753.9	20.5
60°-70°	8978.4	27.2
70°-80°	6753.6	20.5
80°-90°	709.7	2.1
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°	33011.0	100.0
0°-180°	33011.0	100.0

Coefficient of Utilization



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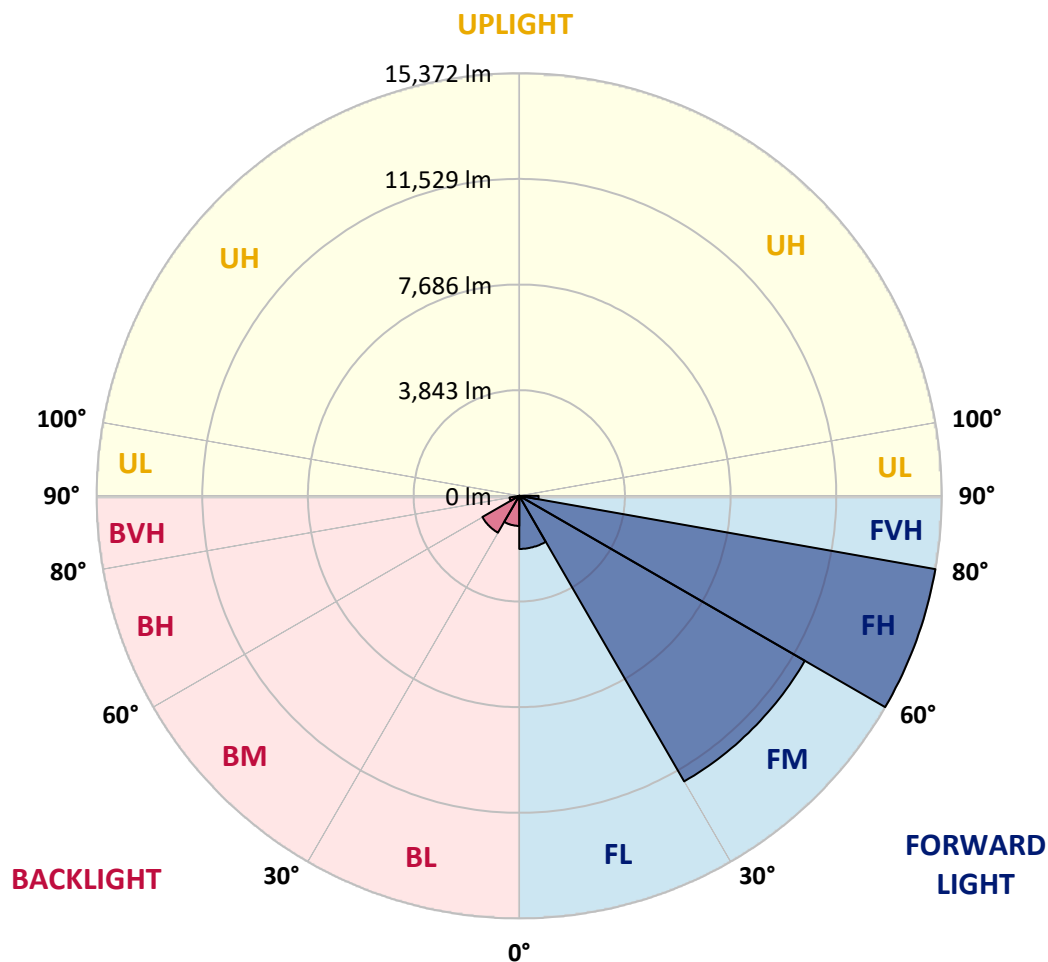
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1931.2	5.9			
FM	(30°-60°)	11995.1	36.3			
FH	(60°-80°)	15372.0	46.6			G5
FVH	(80°-90°)	703.7	2.1			G4/750
BL	(0°-30°)	1094.2	3.3	B3/2500		
BM	(30°-60°)	1548.9	4.7	B2/2500		
BH	(60°-80°)	360.0	1.1	B1/500		G1/500
BVH	(80°-90°)	6.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6
2.5°	5382.4	5405.0	5429.2	5434.1	5474.5	5476.1	5534.2	5577.8	5621.5	5663.5	5678.0
5°	4829.9	4867.1	4910.7	4954.3	5039.9	5073.8	5216.0	5361.4	5500.3	5632.8	5697.4
7.5°	4240.3	4282.3	4343.7	4451.9	4547.2	4613.5	4838.0	5096.5	5354.9	5598.8	5739.4
10°	3702.4	3741.2	3805.8	3920.5	4067.5	4157.9	4460.0	4818.6	5198.2	5568.2	5802.4
12.5°	3360.0	3381.0	3416.5	3539.3	3671.7	3773.5	4128.9	4573.1	5069.0	5566.5	5904.1
15°	3297.0	3303.4	3274.3	3329.3	3432.6	3531.2	3891.4	4374.4	4970.5	5592.4	6036.6
17.5°	3397.1	3393.9	3297.0	3290.5	3372.9	3453.6	3775.1	4237.1	4901.0	5652.1	6207.8
20°	3548.9	3537.6	3369.6	3339.0	3426.2	3502.1	3767.0	4185.4	4875.2	5752.3	6416.2
22.5°	3750.9	3731.5	3468.2	3435.9	3529.6	3608.7	3867.2	4235.5	4897.8	5886.4	6658.5
25°	4001.2	3972.2	3637.8	3602.3	3697.6	3776.7	4046.5	4379.2	4965.6	6049.5	6965.4
27.5°	4283.9	4241.9	3909.2	3817.1	3925.3	4007.7	4285.6	4598.9	5072.2	6222.4	7341.8
30°	4550.5	4495.6	4195.1	4043.2	4175.7	4267.8	4544.0	4860.6	5243.5	6488.9	7857.1
32.5°	4818.6	4757.2	4450.3	4269.4	4388.9	4489.1	4810.5	5220.8	5564.9	6896.0	8542.0
35°	5435.7	5371.1	4994.7	4695.9	4694.2	4750.8	5183.7	5713.5	5989.8	7463.0	9359.4
37.5°	6474.4	6437.2	6078.6	5511.6	5359.8	5296.8	5692.5	6301.5	6600.4	8243.2	10281.8
40°	7611.6	7579.3	7177.1	6663.4	6432.4	6277.3	6422.7	7120.5	7463.0	9196.3	11223.5
42.5°	8895.8	8742.3	8025.1	7871.7	7664.9	7547.0	7416.1	8130.1	8522.6	10233.3	12157.2
45°	10062.1	9803.6	8873.2	8640.6	8593.7	8622.8	8695.5	9487.0	9714.8	11465.8	13087.7
47.5°	10756.7	10553.2	9839.2	9616.2	9603.3	9795.6	10344.8	11020.0	10902.1	12540.0	13906.6
50°	11417.4	11233.2	10640.4	10695.3	10755.1	11016.8	12217.0	12596.6	11986.0	13514.1	14657.8
52.5°	11952.1	11671.0	11360.8	11669.4	11963.4	12385.0	14148.9	14011.6	12754.9	14289.5	15300.7
55°	12260.6	12133.0	12283.2	12593.4	13145.8	13830.7	15972.7	15189.2	13317.0	14997.0	15728.8
57.5°	13391.3	13141.0	13439.8	13708.0	14428.4	15386.3	17534.7	16066.4	13722.5	15434.8	15827.3
60°	14759.6	14557.6	14733.7	15179.5	16152.0	17277.9	18995.0	16782.0	13934.1	15715.8	15572.1
62.5°	16937.1	16670.5	16560.7	17059.8	18348.9	19578.2	20103.2	17277.9	13887.3	15591.5	14696.6
65°	19854.4	19578.2	19087.1	19539.4	21179.0	22046.5	21342.2	17382.9	13564.2	14585.1	12483.5
67.5°	22842.8	22642.5	22222.5	22985.0	24464.6	24744.1	22652.2	17127.7	12523.9	11826.1	8819.9
70°	24816.8	24731.2	25004.2	26690.6	28010.4	27929.6	23854.0	15756.2	9761.6	7272.4	4363.1
72.5°	23393.7	23804.0	25819.9	28877.8	30489.9	29830.9	23237.0	12099.1	5579.5	2797.8	1261.6
73°	22214.4	22739.4	25453.2	28960.2	30685.4	29963.3	22718.4	11105.6	4755.6	2208.2	956.3
75°	15454.2	16098.7	21072.4	26971.7	29771.1	28548.3	18936.9	6797.4	2203.4	978.9	386.1
77.5°	7503.4	7979.9	11603.1	19487.7	23153.0	22304.9	11788.9	2532.9	995.1	612.2	177.7
80°	2801.0	3114.4	5036.7	9918.3	13380.0	13730.6	5185.3	957.9	662.3	492.7	90.5
82.5°	733.4	817.4	1857.7	4422.9	6857.2	7177.1	1634.7	483.0	484.6	405.5	54.9
85°	234.2	268.1	579.9	1985.3	3230.7	2836.6	426.5	234.2	352.1	302.1	30.7
87.5°	29.1	37.2	184.2	466.8	712.4	395.8	66.2	69.5	150.2	168.0	17.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6	5679.6
2.5°	5692.5	5684.5	5686.1	5644.1	5616.6	5561.7	5505.2	5479.3	5451.8	5440.5	5451.8
5°	5721.6	5707.1	5665.1	5535.8	5398.5	5220.8	5054.5	4928.5	4770.2	4726.5	4771.8
7.5°	5766.8	5737.8	5615.0	5351.7	5046.4	4707.2	4325.9	4048.1	3820.3	3673.3	3726.6
10°	5833.1	5778.1	5531.0	5083.5	4537.5	3936.6	3395.5	2973.9	2675.0	2552.3	2547.4
12.5°	5944.5	5841.1	5427.6	4734.6	3915.6	3114.4	2405.3	1948.1	1705.8	1549.1	1545.9
15°	6067.3	5915.5	5296.8	4316.2	3192.0	2230.8	1549.1	1201.8	1045.1	995.1	988.6
17.5°	6217.5	6001.1	5127.2	3800.9	2434.3	1478.1	1011.2	911.1	904.6	899.8	899.8
20°	6406.5	6102.8	4909.1	3211.3	1726.8	987.0	859.4	865.8	869.1	862.6	864.2
22.5°	6626.2	6206.2	4649.0	2578.1	1167.9	825.4	822.2	830.3	833.5	830.3	831.9
25°	6881.4	6325.8	4332.4	1914.2	843.2	783.5	791.5	802.8	810.9	810.9	810.9
27.5°	7198.0	6471.1	3951.2	1335.9	728.5	739.8	762.5	783.5	794.8	798.0	798.0
30°	7610.0	6652.1	3494.0	915.9	662.3	681.7	723.7	764.1	785.1	788.3	789.9
32.5°	8130.1	6855.6	2964.2	676.8	605.8	620.3	665.5	733.4	773.8	780.2	780.2
35°	8726.2	7091.4	2394.0	589.6	565.4	570.2	605.8	683.3	754.4	772.1	773.8
37.5°	9378.8	7324.0	1820.5	550.8	531.5	531.5	557.3	623.5	707.5	762.5	768.9
40°	9987.8	7464.6	1276.1	520.1	500.8	500.8	523.4	571.8	651.0	733.4	751.1
42.5°	10549.9	7513.0	888.4	491.1	471.7	476.5	495.9	534.7	594.5	676.8	693.0
45°	11128.2	7505.0	647.8	457.1	442.6	457.1	471.7	500.8	544.4	591.2	594.5
47.5°	11564.4	7437.1	513.7	424.8	415.1	434.5	447.5	466.8	491.1	487.8	487.8
50°	11973.1	7272.4	413.5	381.2	387.7	410.3	416.8	423.2	424.8	394.1	390.9
52.5°	12283.2	7015.5	331.1	334.4	360.2	382.8	376.4	366.7	350.5	313.4	306.9
55°	12386.6	6521.2	260.1	276.2	319.8	348.9	324.7	303.7	273.0	242.3	235.8
57.5°	12199.2	5883.1	211.6	214.8	269.8	294.0	266.5	242.3	208.4	182.5	177.7
60°	11801.8	5174.0	174.5	161.5	208.4	229.4	211.6	187.4	156.7	137.3	135.7
62.5°	11013.5	4418.0	143.8	126.0	158.3	176.1	164.8	147.0	121.2	108.2	106.6
65°	9356.2	3534.4	116.3	101.8	122.8	137.3	127.6	114.7	95.3	85.6	84.0
67.5°	6530.9	2389.1	95.3	84.0	96.9	108.2	100.2	93.7	75.9	74.3	75.9
70°	3150.0	1151.8	79.2	67.8	75.9	84.0	80.8	75.9	72.7	84.0	96.9
72.5°	903.0	386.1	63.0	56.5	61.4	66.2	69.5	67.8	79.2	101.8	117.9
73°	694.6	311.8	59.8	53.3	58.2	64.6	67.8	66.2	80.8	103.4	117.9
75°	297.2	150.2	45.2	43.6	48.5	56.5	59.8	59.8	80.8	105.0	113.1
77.5°	134.1	80.8	29.1	33.9	42.0	45.2	50.1	50.1	64.6	80.8	80.8
80°	75.9	43.6	22.6	25.8	30.7	30.7	30.7	27.5	29.1	32.3	35.5
82.5°	48.5	29.1	17.8	21.0	19.4	16.2	12.9	12.9	11.3	12.9	16.2
85°	27.5	16.2	16.2	12.9	8.1	6.5	8.1	6.5	1.6	0.0	1.6
87.5°	16.2	9.7	4.8	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)