

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: P322811

Luminaire Tested: **GAN-SA7C-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30324 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

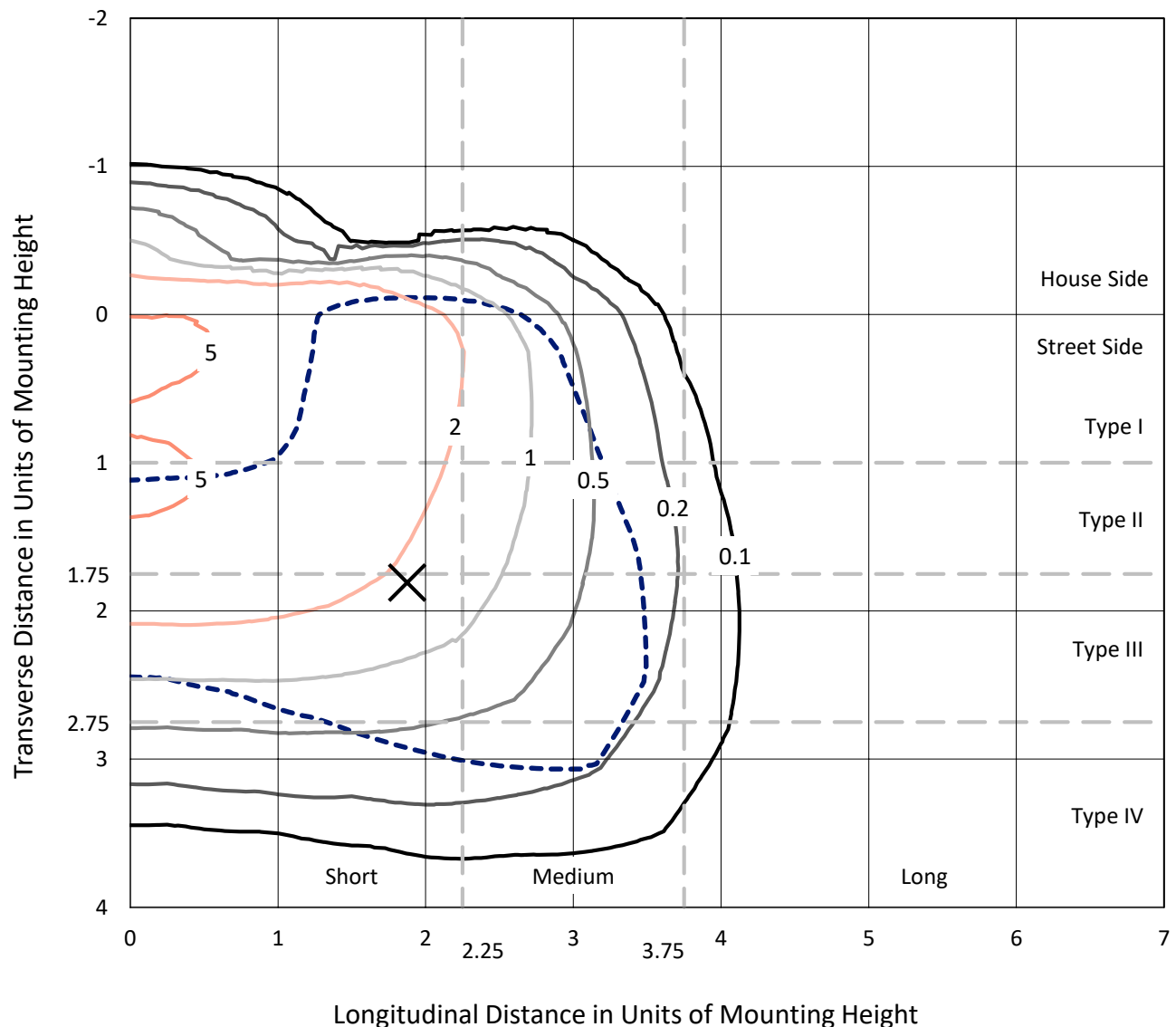
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

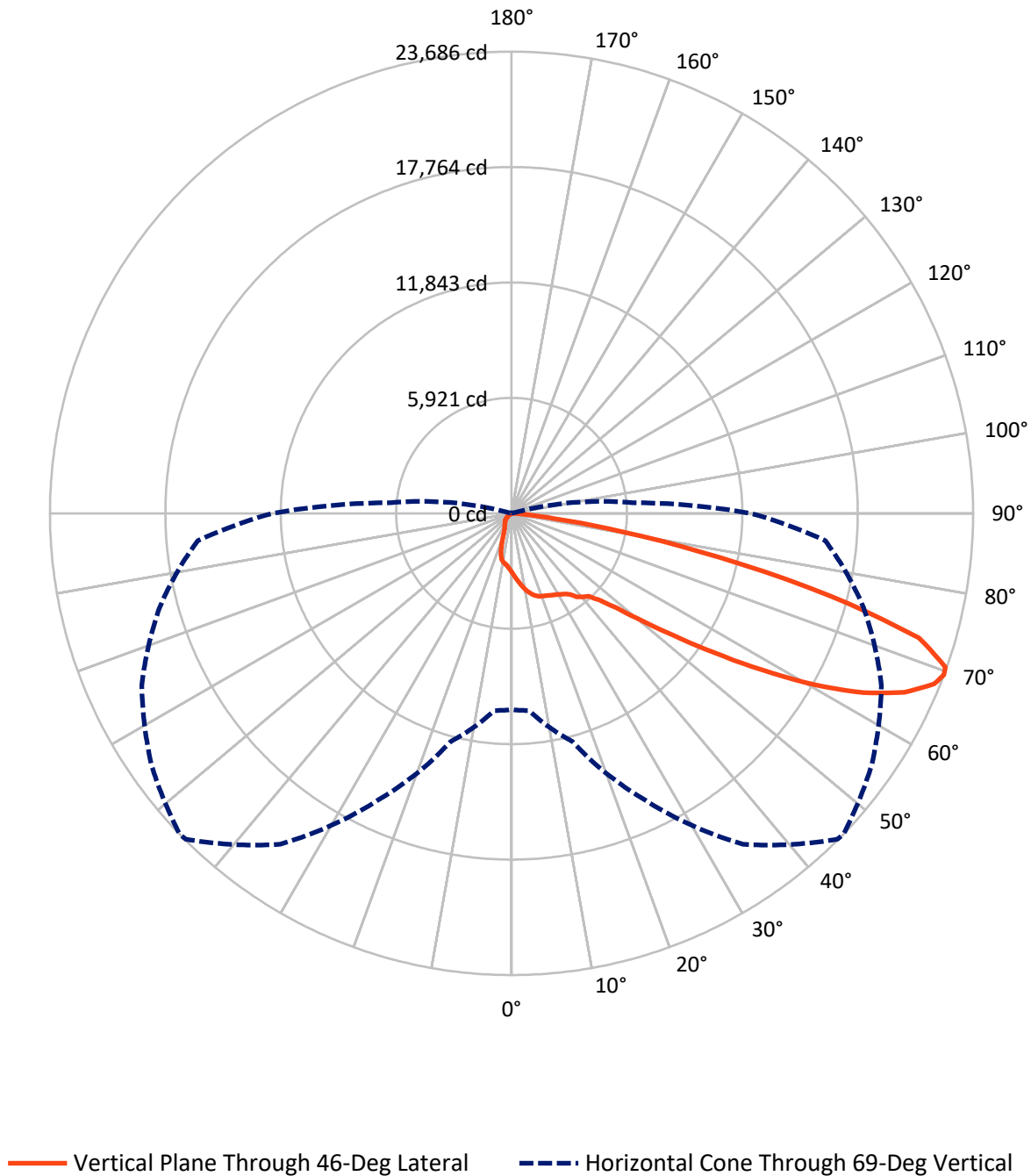
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	3112.1	0.0	3112.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	27211.9	0.0	27211.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	30324.0	0.0	30324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.4	1.0
10°-20°	917.5	3.0
20°-30°	1442.9	4.8
30°-40°	2069.1	6.8
40°-50°	3576.2	11.8
50°-60°	7065.1	23.3
60°-70°	9874.1	32.6
70°-80°	4770.2	15.7
80°-90°	306.6	1.0
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°	30324.0	100.0
0°-180°	30324.0	100.0

Coefficient of Utilization



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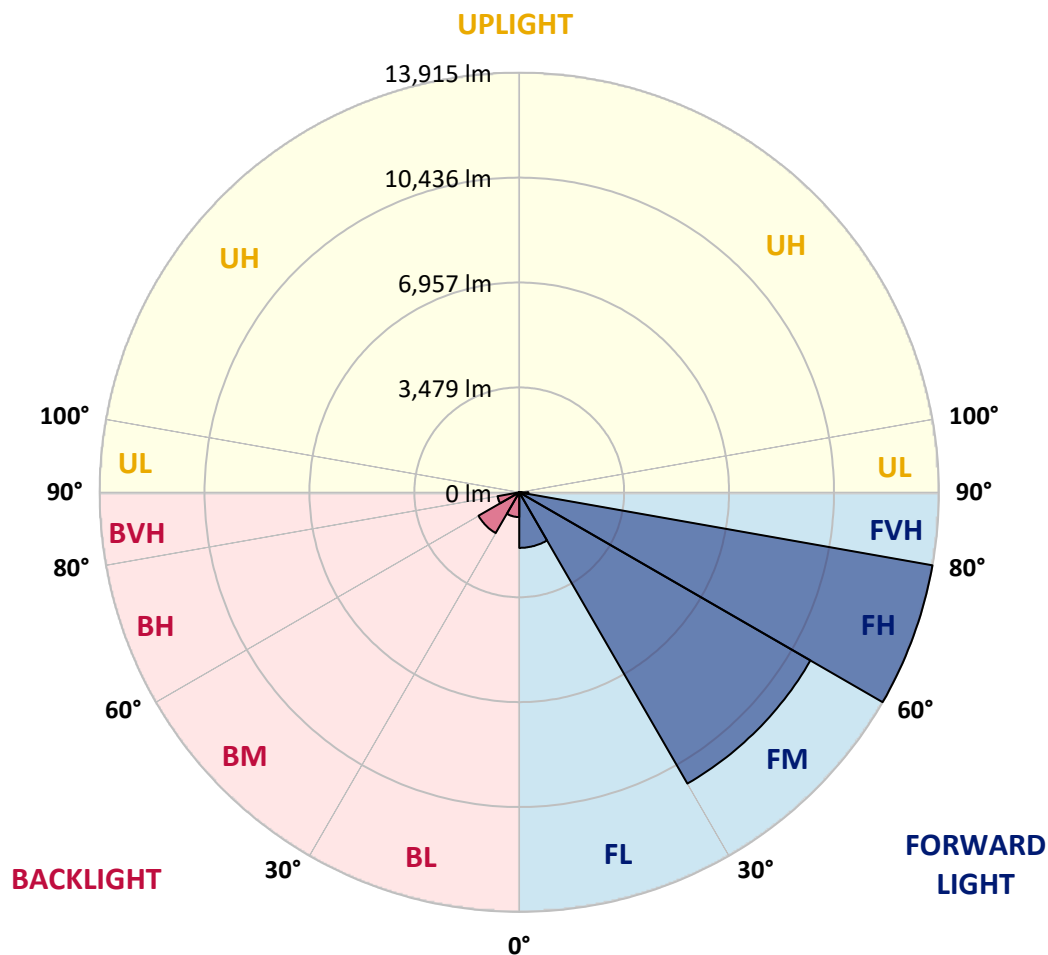
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1842.5	6.1			
FM	(30°-60°)	11150.8	36.8			
FH	(60°-80°)	13914.6	45.9			G5
FVH	(80°-90°)	304.0	1.0			G3/500
BL	(0°-30°)	820.2	2.7	B2/1000		
BM	(30°-60°)	1559.5	5.1	B2/2500		
BH	(60°-80°)	729.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4
2.5°	3375.3	3371.0	3351.1	3342.6	3294.3	3265.8	3254.5	3218.9	3167.7	3116.5	3059.7
5°	3759.2	3757.8	3720.8	3685.3	3594.3	3509.0	3493.3	3410.9	3295.7	3187.6	3079.6
7.5°	4151.6	4133.1	4096.2	4027.9	3895.7	3759.2	3746.4	3629.8	3466.3	3309.9	3154.9
10°	4484.3	4472.9	4424.6	4320.8	4165.8	4010.9	3995.2	3851.6	3666.8	3474.8	3277.2
12.5°	4743.1	4734.5	4670.6	4541.2	4376.2	4215.6	4194.3	4066.3	3868.7	3654.0	3420.8
15°	4900.9	4896.6	4818.4	4680.5	4518.4	4379.1	4360.6	4248.3	4064.9	3840.2	3577.2
17.5°	4937.9	4939.3	4858.2	4718.9	4585.3	4485.7	4471.5	4386.2	4232.6	4009.4	3733.6
20°	4855.4	4872.5	4799.9	4679.1	4596.6	4544.0	4532.6	4481.5	4352.1	4141.7	3858.7
22.5°	4738.8	4747.3	4697.6	4616.5	4582.4	4592.4	4586.7	4558.2	4448.8	4255.4	3982.4
25°	4667.7	4667.7	4637.9	4569.6	4592.4	4653.5	4654.9	4649.2	4562.5	4394.7	4133.1
27.5°	4664.9	4656.3	4622.2	4571.0	4633.6	4727.4	4733.1	4771.5	4717.5	4563.9	4320.8
30°	4778.6	4768.7	4696.2	4629.3	4708.9	4809.9	4824.1	4908.0	4881.0	4747.3	4529.8
32.5°	5044.5	5008.9	4848.3	4738.8	4798.5	4919.4	4937.9	5071.5	5114.2	4973.4	4731.7
35°	5408.5	5296.1	5064.4	4946.4	4952.1	5078.6	5095.7	5291.9	5418.4	5181.0	4888.1
37.5°	5910.4	5854.9	5478.1	5162.5	5188.1	5380.0	5429.8	5643.1	5607.5	5294.7	5065.8
40°	7010.8	6924.1	6523.1	5768.2	5414.2	5624.6	5640.2	5754.0	5756.8	5552.1	5435.5
42.5°	8509.4	8473.8	8051.6	6867.2	5859.2	5788.1	5816.5	6008.5	6223.1	6095.2	6089.5
45°	10168.6	10150.1	9702.3	8326.0	6759.2	6324.1	6359.6	6617.0	7027.9	7056.3	7236.9
47.5°	11503.7	11495.1	11237.8	9953.9	8136.9	7232.6	7244.0	7517.0	8239.2	8596.1	8884.7
50°	12720.7	12761.9	12558.6	11715.5	10013.6	8655.8	8628.8	8810.8	9971.0	10555.3	10913.6
52.5°	14412.6	14470.9	13900.8	13359.1	11982.8	10421.7	10400.3	10590.9	12052.5	12490.4	12554.3
55°	15906.9	15807.4	15356.7	15200.3	14384.2	12602.7	12597.0	12764.8	14065.7	14252.0	14370.0
57.5°	16566.6	16528.2	16745.8	17104.1	16899.3	15180.4	15167.6	15039.6	15867.1	15887.0	16249.6
60°	16983.2	17030.1	17696.9	18801.7	19312.1	17954.3	17871.8	17091.3	17587.5	17543.4	17931.5
62.5°	16670.4	16762.8	17962.8	19804.0	21117.8	20375.6	20259.0	18970.9	19057.6	18905.5	19266.6
65°	15009.8	15153.4	17119.7	19614.9	22013.5	22268.0	22150.0	20630.1	20224.9	19974.6	19774.2
67.5°	12187.5	12272.8	14325.9	17969.9	21609.7	23396.9	23372.7	22084.6	21106.4	19794.1	18238.6
69°	10071.9	10155.8	12132.1	16238.2	20721.1	23638.6	23685.5	22550.9	20938.6	18696.5	16160.0
70°	8530.7	8620.3	10461.5	14753.8	19690.3	23526.3	23610.1	22506.8	20458.0	17425.4	14335.8
72.5°	4474.4	4551.1	6440.7	10164.3	16051.9	21602.6	21857.1	20604.5	17341.5	12655.3	8476.7
75°	1406.1	1450.2	2515.1	5313.2	10990.4	16797.0	16855.2	16162.8	12314.1	6961.1	3530.3
77.5°	536.0	523.2	837.4	1957.8	5556.3	10576.6	10933.5	10100.4	6462.0	2461.1	814.7
80°	288.6	290.0	435.1	810.4	2377.2	5435.5	5736.9	4895.2	2296.2	767.8	187.7
82.5°	125.1	130.8	244.5	429.4	1091.9	2004.7	2155.4	1794.3	877.2	516.1	69.7
85°	27.0	29.9	118.0	233.2	445.0	563.0	590.0	581.5	558.8	400.9	27.0
87.5°	0.0	0.0	52.6	83.9	112.3	128.0	112.3	146.4	308.5	270.1	14.2
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°	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4
2.5°	3041.2	3015.6	2971.5	2923.2	2889.1	2853.5	2825.1	2812.3	2798.1	2788.1	2800.9
5°	3035.5	2985.7	2900.4	2818.0	2758.3	2709.9	2670.1	2654.5	2638.8	2627.5	2626.0
7.5°	3085.3	3015.6	2884.8	2763.9	2671.5	2606.1	2552.1	2529.4	2510.9	2502.3	2495.2
10°	3180.5	3091.0	2916.1	2758.3	2638.8	2527.9	2411.3	2321.8	2263.5	2236.5	2226.5
12.5°	3304.2	3191.9	2975.8	2788.1	2614.7	2401.4	2154.0	1940.7	1802.8	1757.3	1730.3
15°	3449.2	3309.9	3054.0	2826.5	2526.5	2136.9	1717.5	1438.8	1310.9	1285.3	1256.9
17.5°	3588.6	3435.0	3147.8	2833.6	2333.1	1707.6	1258.3	1069.2	1019.4	1036.5	1040.7
20°	3710.9	3558.7	3240.2	2771.1	1982.0	1281.0	973.9	927.0	945.5	978.2	983.9
22.5°	3834.6	3678.2	3325.6	2606.1	1532.7	972.5	877.2	888.6	907.1	939.8	945.5
25°	3985.3	3823.2	3405.2	2303.3	1150.2	827.5	833.2	850.2	868.7	898.6	901.4
27.5°	4158.7	4006.6	3457.8	1909.5	853.1	760.7	779.1	804.7	823.2	851.6	857.3
30°	4389.0	4248.3	3474.8	1501.4	715.2	700.9	709.5	740.7	767.8	793.4	797.6
32.5°	4605.2	4487.1	3418.0	1133.2	662.6	645.5	645.5	664.0	695.3	719.4	725.1
35°	4804.2	4727.4	3236.0	828.9	622.7	594.3	580.1	580.1	600.0	619.9	625.6
37.5°	5067.2	5064.4	2941.7	661.1	584.4	551.7	521.8	499.0	491.9	496.2	499.0
40°	5517.9	5522.2	2557.8	592.9	551.7	507.6	462.1	420.8	382.5	369.7	368.2
42.5°	6221.7	6157.7	2155.4	560.2	523.2	462.1	393.8	338.4	278.7	260.2	258.8
45°	7339.2	6959.6	1728.9	530.3	493.4	410.9	325.6	250.2	201.9	187.7	187.7
47.5°	8967.2	8013.2	1339.3	497.6	453.5	352.6	246.0	180.6	147.9	140.8	142.2
50°	10650.6	9045.4	1026.5	456.4	405.2	291.5	182.0	130.8	112.3	112.3	113.7
52.5°	12143.5	9801.8	800.5	412.3	345.5	228.9	137.9	102.4	93.8	92.4	93.8
55°	13541.1	10289.4	612.8	361.1	274.4	170.6	105.2	83.9	78.2	75.4	73.9
57.5°	14888.9	10531.2	459.2	291.5	199.0	123.7	83.9	71.1	65.4	61.1	59.7
60°	15786.1	10334.9	315.6	214.7	137.9	89.6	69.7	61.1	54.0	49.8	48.3
62.5°	16292.2	9798.9	203.3	155.0	98.1	66.8	55.4	51.2	41.2	37.0	37.0
65°	16087.5	8914.6	142.2	110.9	71.1	49.8	41.2	41.2	29.9	24.2	22.7
67.5°	14256.2	7531.2	108.1	82.5	51.2	37.0	31.3	35.5	18.5	11.4	11.4
69°	12265.7	6241.6	92.4	68.2	42.7	29.9	27.0	32.7	12.8	8.5	7.1
70°	10660.5	5384.3	83.9	59.7	35.5	25.6	24.2	31.3	12.8	7.1	5.7
72.5°	6378.1	3002.8	64.0	42.7	22.7	19.9	19.9	35.5	12.8	7.1	5.7
75°	2577.7	1057.8	46.9	29.9	17.1	17.1	24.2	45.5	11.4	5.7	4.3
77.5°	584.4	231.8	27.0	18.5	11.4	17.1	28.4	35.5	7.1	2.8	0.0
80°	142.2	56.9	17.1	11.4	7.1	12.8	21.3	19.9	1.4	0.0	0.0
82.5°	46.9	19.9	7.1	5.7	1.4	4.3	10.0	5.7	0.0	0.0	0.0
85°	19.9	11.4	2.8	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0
87.5°	12.8	4.3	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)