

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: P322633

Luminaire Tested: **GAN-SA9A-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322633
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-SA9A-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA 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: 29586 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

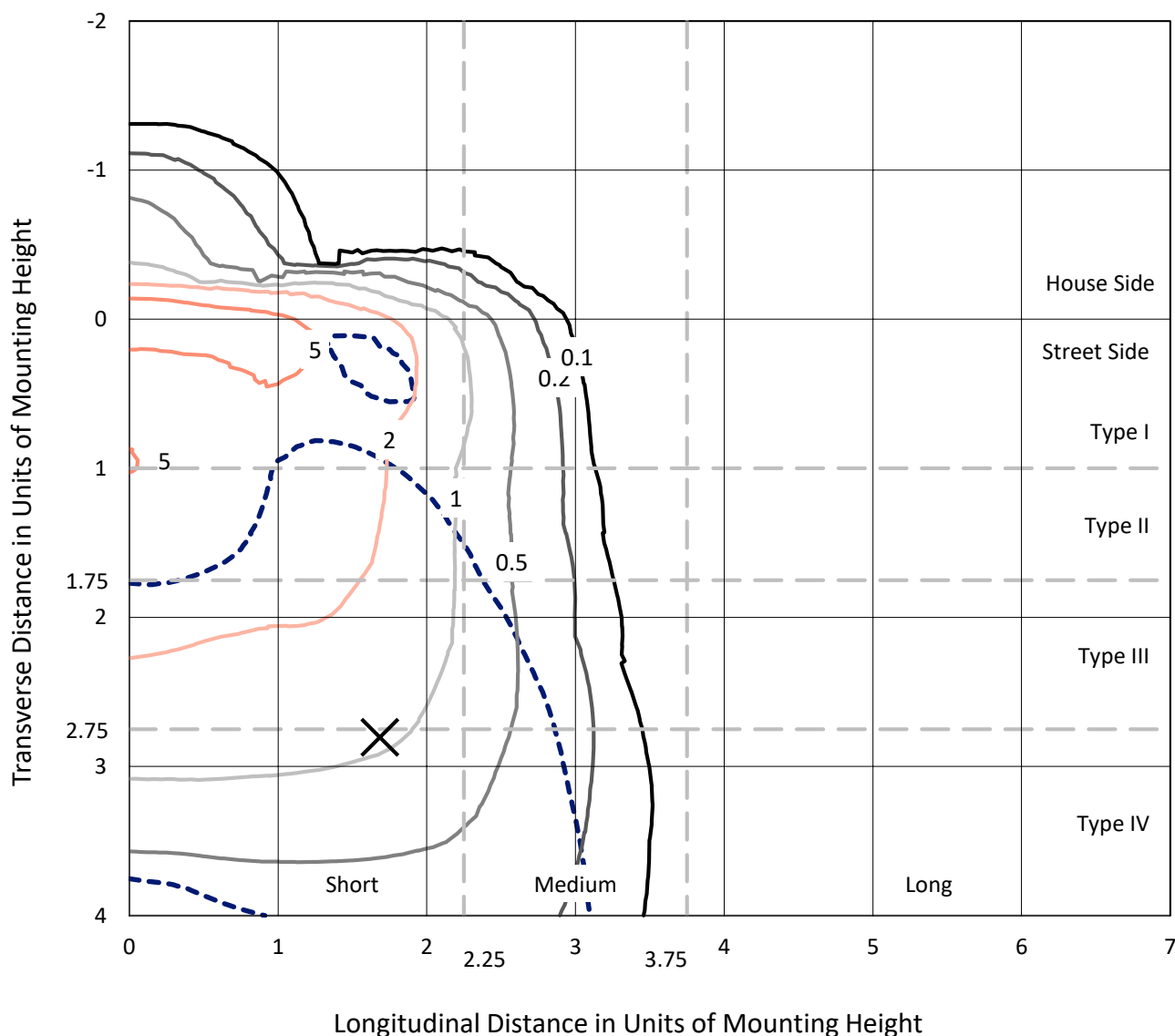
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

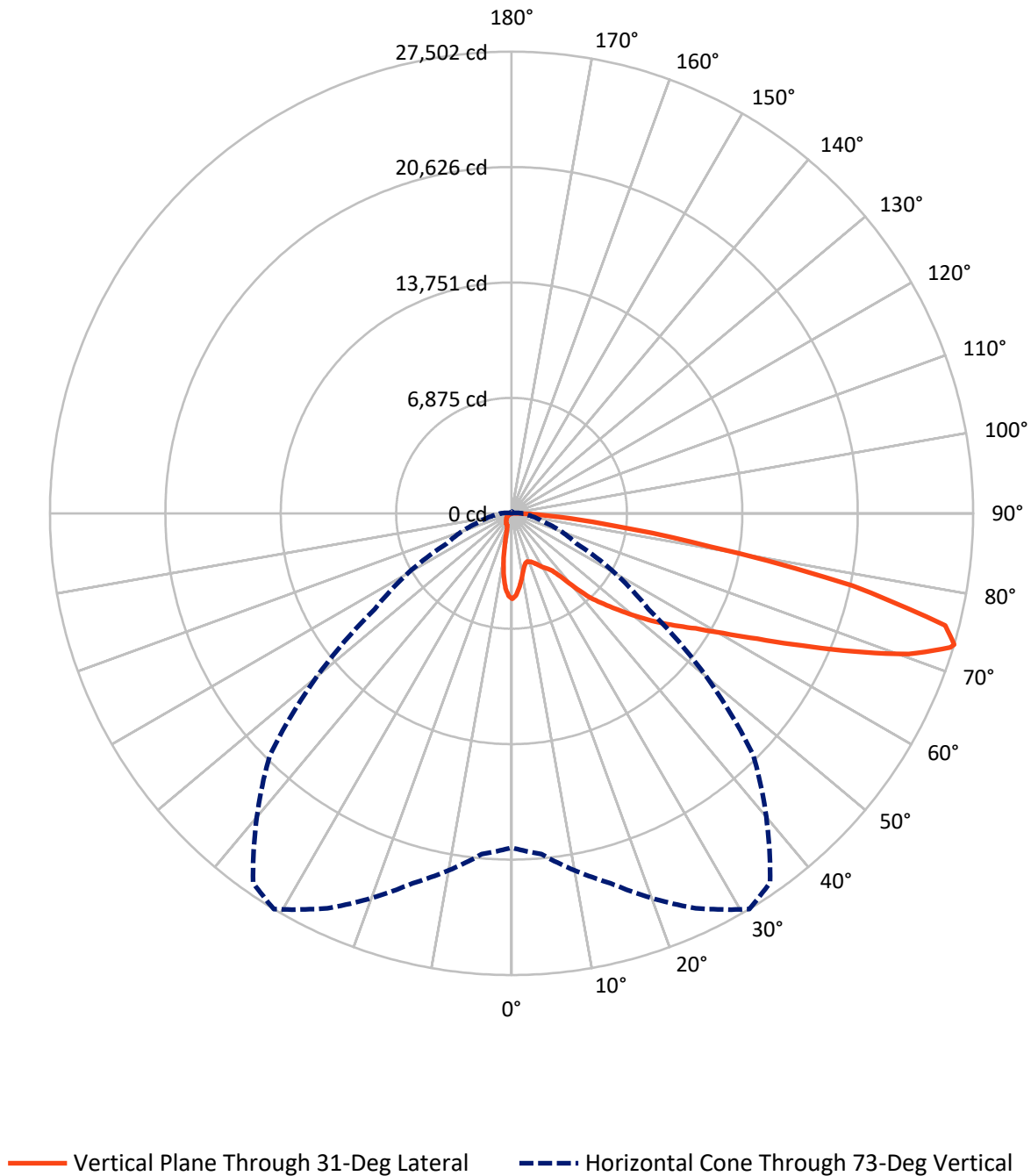
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	2696.9	0.0	2696.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	26889.1	0.0	26889.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	29586.0	0.0	29586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.1	1.4
10°-20°	916.4	3.1
20°-30°	1373.1	4.6
30°-40°	2184.5	7.4
40°-50°	3901.0	13.2
50°-60°	6053.2	20.5
60°-70°	8046.9	27.2
70°-80°	6052.9	20.5
80°-90°	636.0	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°	29586.0	100.0
0°-180°	29586.0	100.0

Coefficient of Utilization



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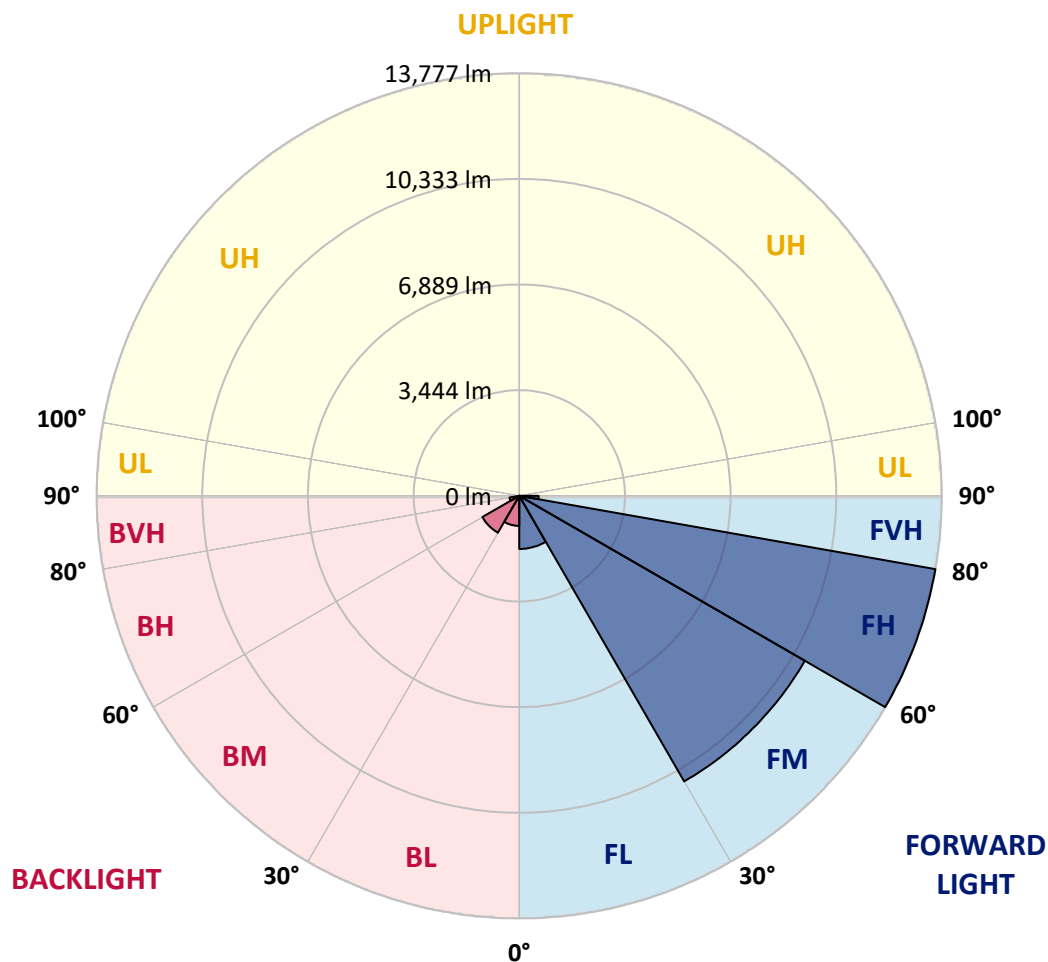
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1730.8	5.9			
FM	(30°-60°)	10750.5	36.3			
FH	(60°-80°)	13777.1	46.6			G5
FVH	(80°-90°)	630.7	2.1			G4/750
BL	(0°-30°)	980.7	3.3	B2/1000		
BM	(30°-60°)	1388.2	4.7	B2/2500		
BH	(60°-80°)	322.7	1.1	B1/500		G1/500
BVH	(80°-90°)	5.4	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°	31°	35°	45°	55°	65°	75°	85°
0°	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3
2.5°	4823.9	4844.2	4865.9	4870.3	4906.5	4907.9	4960.0	4999.1	5038.2	5075.9	5088.9
5°	4328.8	4362.1	4401.2	4440.3	4517.0	4547.4	4674.8	4805.1	4929.6	5048.3	5106.3
7.5°	3800.4	3838.0	3893.0	3990.0	4075.5	4134.8	4336.0	4567.7	4799.3	5017.9	5143.9
10°	3318.3	3353.0	3410.9	3513.7	3645.5	3726.5	3997.3	4318.7	4658.9	4990.4	5200.4
12.5°	3011.3	3030.2	3062.0	3172.0	3290.8	3382.0	3700.5	4098.6	4543.1	4989.0	5291.6
15°	2954.9	2960.7	2934.6	2983.8	3076.5	3164.8	3487.7	3920.5	4454.8	5012.2	5410.3
17.5°	3044.6	3041.7	2954.9	2949.1	3022.9	3095.3	3383.4	3797.5	4392.5	5065.7	5563.8
20°	3180.7	3170.6	3020.0	2992.5	3070.7	3138.7	3376.2	3751.2	4369.3	5155.5	5750.5
22.5°	3361.7	3344.3	3108.3	3079.4	3163.4	3234.3	3465.9	3796.0	4389.6	5275.6	5967.7
25°	3586.1	3560.0	3260.4	3228.5	3313.9	3384.9	3626.6	3924.9	4450.4	5421.9	6242.8
27.5°	3839.5	3801.8	3503.6	3421.1	3518.1	3591.9	3840.9	4121.8	4546.0	5576.8	6580.1
30°	4078.3	4029.1	3759.8	3623.7	3742.5	3825.0	4072.6	4356.3	4699.4	5815.7	7041.9
32.5°	4318.7	4263.7	3988.6	3826.4	3933.6	4023.3	4311.4	4679.2	4987.5	6180.5	7655.8
35°	4871.7	4813.8	4476.5	4208.6	4207.2	4257.9	4645.9	5120.7	5368.3	6688.7	8388.3
37.5°	5802.6	5769.3	5447.9	4939.8	4803.7	4747.2	5101.9	5647.7	5915.6	7387.9	9215.0
40°	6821.9	6792.9	6432.4	5972.0	5765.0	5626.0	5756.3	6381.7	6688.7	8242.1	10059.1
42.5°	7972.8	7835.3	7192.5	7054.9	6869.6	6763.9	6646.7	7286.6	7638.4	9171.6	10895.9
45°	9018.1	8786.5	7952.6	7744.1	7702.1	7728.2	7793.3	8502.7	8706.8	10276.2	11729.8
47.5°	9640.6	9458.2	8818.3	8618.5	8606.9	8779.2	9271.5	9876.6	9770.9	11239.0	12463.8
50°	10232.8	10067.7	9536.4	9585.6	9639.2	9873.7	10949.4	11289.6	10742.4	12112.0	13137.0
52.5°	10712.0	10460.1	10182.1	10458.6	10722.1	11100.0	12680.9	12557.9	11431.5	12806.9	13713.2
55°	10988.5	10874.1	11008.8	11286.8	11781.9	12395.7	14315.5	13613.3	11935.4	13441.0	14096.9
57.5°	12001.9	11777.5	12045.4	12285.7	12931.4	13789.9	15715.5	14399.4	12298.7	13833.4	14185.2
60°	13228.2	13047.2	13205.0	13604.6	14476.2	15485.3	17024.2	15040.8	12488.4	14085.3	13956.4
62.5°	15179.8	14940.9	14842.5	15289.8	16445.1	17546.9	18017.4	15485.3	12446.4	13973.8	13171.7
65°	17794.4	17546.9	17106.8	17512.1	18981.6	19759.1	19127.8	15579.4	12156.9	13071.8	11188.3
67.5°	20472.8	20293.3	19916.9	20600.2	21926.4	22176.8	20302.0	15350.6	11224.5	10599.1	7904.8
70°	22242.0	22165.2	22409.9	23921.4	25104.2	25031.8	21379.1	14121.5	8748.8	6517.8	3910.4
72.5°	20966.5	21334.2	23141.0	25881.6	27326.5	26735.8	20826.1	10843.7	5000.6	2507.5	1130.7
73°	19909.6	20380.1	22812.4	25955.5	27501.7	26854.5	20361.3	9953.4	4262.2	1979.1	857.1
75°	13850.7	14428.4	18886.1	24173.3	26682.3	25586.3	16972.1	6092.2	1974.7	877.3	346.0
77.5°	6724.9	7151.9	10399.3	17465.8	20750.8	19990.7	10565.8	2270.1	891.8	548.7	159.3
80°	2510.4	2791.3	4514.1	8889.3	11991.8	12306.0	4647.3	858.5	593.6	441.6	81.1
82.5°	657.3	732.6	1664.9	3964.0	6145.8	6432.4	1465.1	432.9	434.3	363.4	49.2
85°	209.9	240.3	519.7	1779.3	2895.5	2542.3	382.2	209.9	315.6	270.7	27.5
87.5°	26.1	33.3	165.0	418.4	638.5	354.7	59.4	62.3	134.6	150.6	15.9
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°	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3	5090.3
2.5°	5101.9	5094.7	5096.1	5058.5	5033.9	4984.6	4934.0	4910.8	4886.2	4876.1	4886.2
5°	5128.0	5114.9	5077.3	4961.5	4838.4	4679.2	4530.0	4417.1	4275.2	4236.2	4276.7
7.5°	5168.5	5142.5	5032.4	4796.4	4522.8	4218.8	3877.1	3628.1	3424.0	3292.2	3340.0
10°	5227.9	5178.6	4957.1	4556.1	4066.8	3528.2	3043.2	2665.3	2397.5	2287.5	2283.1
12.5°	5327.8	5235.1	4864.5	4243.4	3509.4	2791.3	2155.7	1746.0	1528.8	1388.4	1385.5
15°	5437.8	5301.7	4747.2	3868.4	2860.8	1999.4	1388.4	1077.1	936.7	891.8	886.0
17.5°	5572.4	5378.4	4595.2	3406.6	2181.8	1324.7	906.3	816.5	810.7	806.4	806.4
20°	5741.8	5469.6	4399.7	2878.2	1547.7	884.6	770.2	776.0	778.9	773.1	774.6
22.5°	5938.7	5562.3	4166.7	2310.6	1046.7	739.8	736.9	744.1	747.0	744.1	745.6
25°	6167.5	5669.4	3882.9	1715.6	755.7	702.2	709.4	719.5	726.8	726.8	726.8
27.5°	6451.2	5799.7	3541.2	1197.3	652.9	663.1	683.3	702.2	712.3	715.2	715.2
30°	6820.4	5961.9	3131.5	820.9	593.6	611.0	648.6	684.8	703.6	706.5	708.0
32.5°	7286.6	6144.3	2656.6	606.6	542.9	555.9	596.5	657.3	693.5	699.3	699.3
35°	7820.8	6355.7	2145.6	528.4	506.7	511.1	542.9	612.4	676.1	692.0	693.5
37.5°	8405.7	6564.2	1631.6	493.7	476.3	476.3	499.5	558.8	634.1	683.3	689.1
40°	8951.5	6690.1	1143.7	466.2	448.8	448.8	469.1	512.5	583.4	657.3	673.2
42.5°	9455.3	6733.5	796.3	440.1	422.7	427.1	444.5	479.2	532.8	606.6	621.1
45°	9973.6	6726.3	580.6	409.7	396.7	409.7	422.7	448.8	487.9	529.9	532.8
47.5°	10364.5	6665.5	460.4	380.8	372.1	389.4	401.0	418.4	440.1	437.2	437.2
50°	10730.8	6517.8	370.6	341.7	347.5	367.7	373.5	379.3	380.8	353.3	350.4
52.5°	11008.8	6287.6	296.8	299.7	322.9	343.1	337.3	328.6	314.2	280.9	275.1
55°	11101.4	5844.6	233.1	247.6	286.7	312.7	291.0	272.2	244.7	217.2	211.4
57.5°	10933.5	5272.7	189.7	192.6	241.8	263.5	238.9	217.2	186.8	163.6	159.3
60°	10577.4	4637.2	156.4	144.8	186.8	205.6	189.7	167.9	140.4	123.1	121.6
62.5°	9870.8	3959.6	128.9	112.9	141.9	157.8	147.7	131.7	108.6	97.0	95.6
65°	8385.4	3167.7	104.2	91.2	110.0	123.1	114.4	102.8	85.4	76.7	75.3
67.5°	5853.3	2141.2	85.4	75.3	86.9	97.0	89.8	84.0	68.0	66.6	68.0
70°	2823.1	1032.3	70.9	60.8	68.0	75.3	72.4	68.0	65.1	75.3	86.9
72.5°	809.3	346.0	56.5	50.7	55.0	59.4	62.3	60.8	70.9	91.2	105.7
73°	622.5	279.4	53.6	47.8	52.1	57.9	60.8	59.4	72.4	92.7	105.7
75°	266.4	134.6	40.5	39.1	43.4	50.7	53.6	53.6	72.4	94.1	101.3
77.5°	120.2	72.4	26.1	30.4	37.6	40.5	44.9	44.9	57.9	72.4	72.4
80°	68.0	39.1	20.3	23.2	27.5	27.5	27.5	24.6	26.1	29.0	31.9
82.5°	43.4	26.1	15.9	18.8	17.4	14.5	11.6	11.6	10.1	11.6	14.5
85°	24.6	14.5	14.5	11.6	7.2	5.8	7.2	5.8	1.4	0.0	1.4
87.5°	14.5	8.7	4.3	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)