

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: P321521

Luminaire Tested: **GAN-SA7B-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321521
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-SA7B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 25998 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

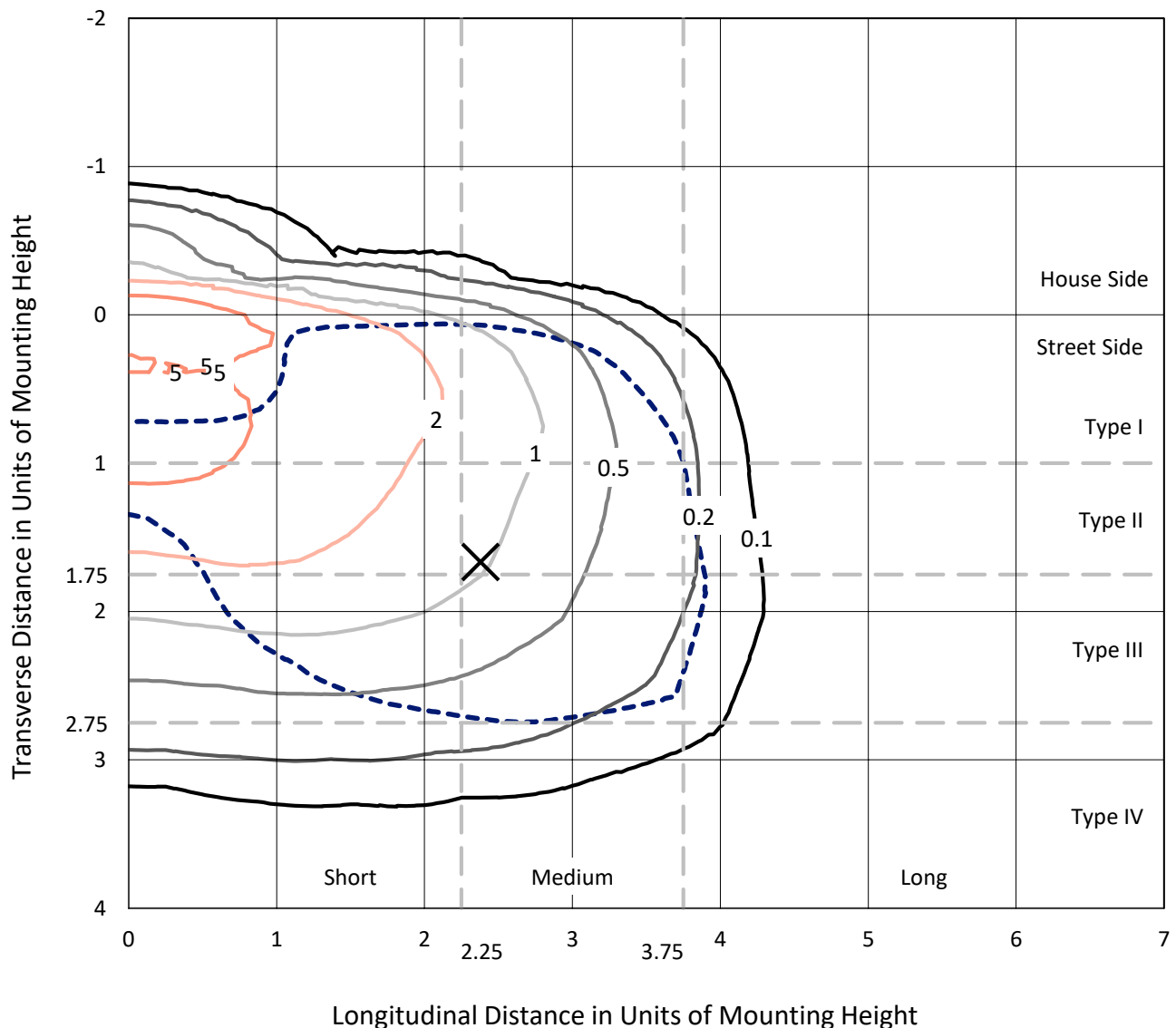
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

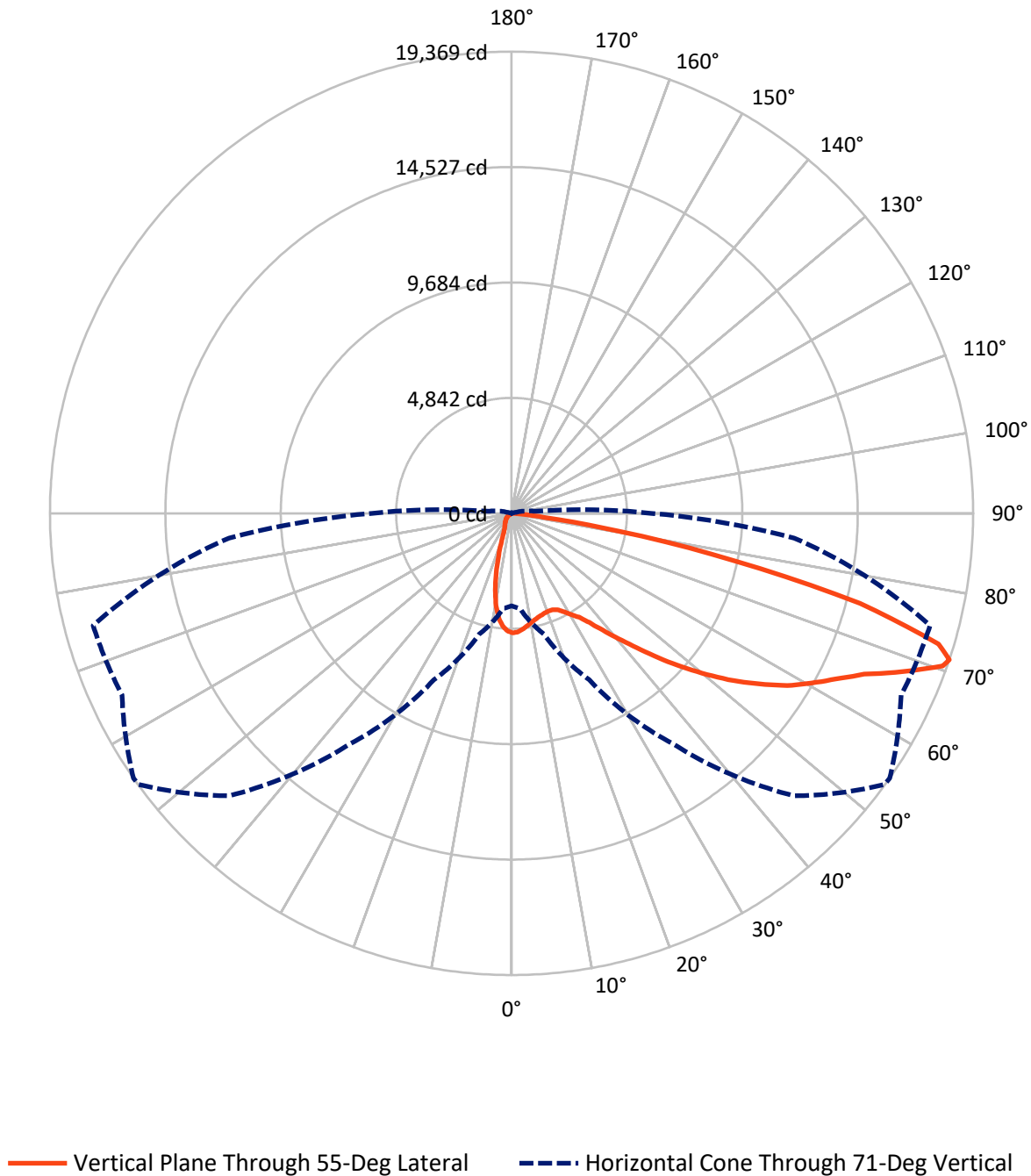
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	2058.3	0.0	2058.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	23939.7	0.0	23939.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	25998.0	0.0	25998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.5	1.6
10°-20°	965.1	3.7
20°-30°	1550.9	6.0
30°-40°	2635.1	10.1
40°-50°	4090.1	15.7
50°-60°	5499.0	21.2
60°-70°	6727.1	25.9
70°-80°	3933.2	15.1
80°-90°	170.0	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°	25998.0	100.0
0°-180°	25998.0	100.0

Coefficient of Utilization



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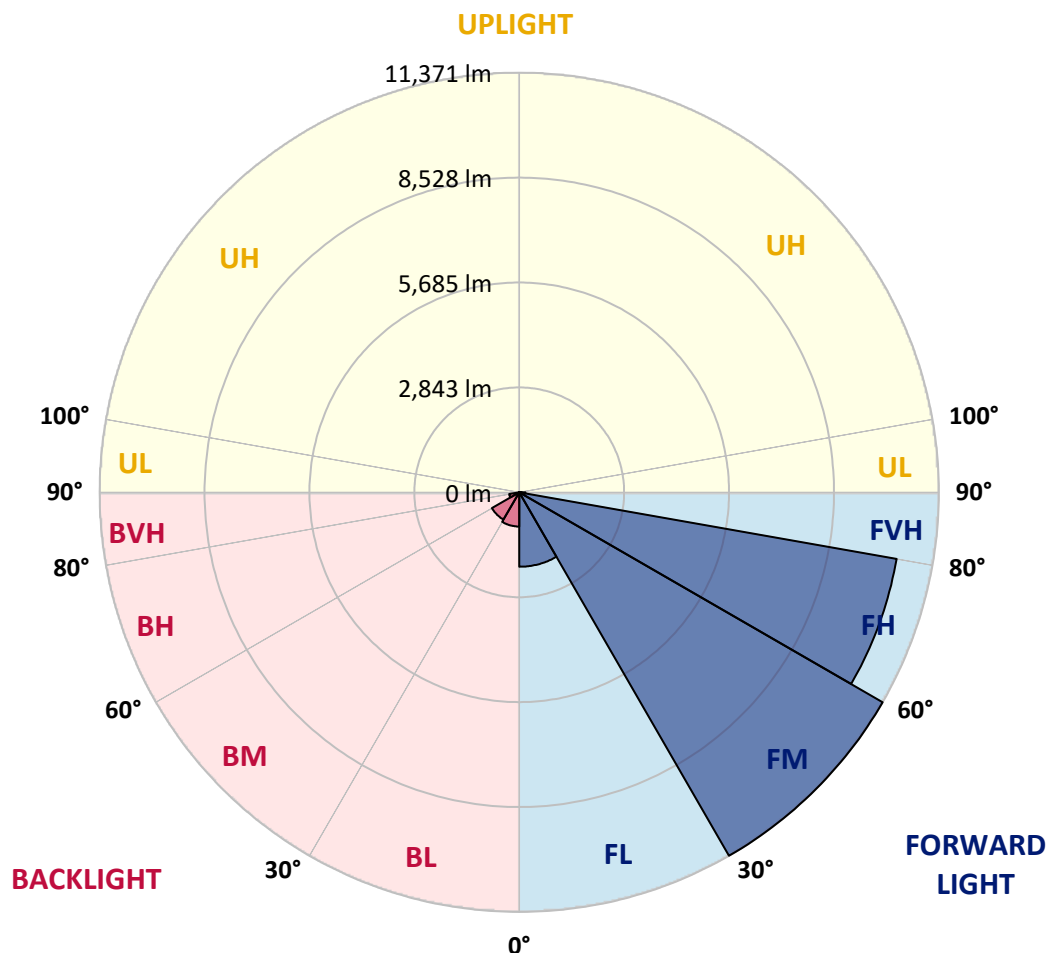
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2017.1	7.8			
FM	(30°-60°)	11370.8	43.7			
FH	(60°-80°)	10384.5	39.9			G4/12000
FVH	(80°-90°)	167.3	0.6			G2/225
BL	(0°-30°)	926.5	3.6	B2/1000		
BM	(30°-60°)	853.4	3.3	B1/1000		
BH	(60°-80°)	275.8	1.1	B1/500		G1/500
BVH	(80°-90°)	2.7	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8
2.5°	4866.7	4872.6	4893.6	4902.9	4925.1	4962.4	4981.1	4982.3	5012.6	5024.3	5033.7
5°	4522.3	4557.4	4592.4	4629.7	4697.5	4787.3	4876.1	4884.2	4982.3	5054.7	5093.2
7.5°	4225.8	4257.4	4299.4	4358.9	4454.6	4595.9	4744.1	4761.7	4947.3	5111.9	5198.3
10°	3921.2	3946.8	4007.5	4095.1	4227.0	4416.1	4615.7	4644.9	4915.7	5188.9	5340.7
12.5°	3595.5	3610.6	3684.2	3810.3	4004.0	4244.5	4507.2	4545.7	4895.9	5277.6	5508.8
15°	3348.0	3355.0	3425.0	3555.8	3777.6	4090.4	4423.1	4469.8	4900.6	5383.9	5692.0
17.5°	3284.9	3288.5	3325.8	3415.7	3611.8	3952.7	4356.6	4413.8	4914.6	5487.8	5876.5
20°	3540.6	3516.1	3477.6	3463.6	3547.6	3869.8	4316.9	4381.1	4933.3	5580.0	6042.3
22.5°	4242.2	4169.8	4009.9	3796.3	3666.7	3875.6	4327.4	4391.6	4992.8	5693.2	6233.7
25°	5283.5	5183.1	4911.1	4490.8	4086.9	4043.7	4415.0	4480.3	5108.4	5828.6	6417.0
27.5°	6468.3	6369.1	6036.4	5436.4	4747.6	4376.4	4615.7	4676.4	5280.0	5948.9	6557.1
30°	7603.0	7575.0	7182.8	6501.0	5578.8	4915.7	4874.9	4926.3	5407.2	6021.2	6668.0
32.5°	8564.9	8520.6	8205.4	7542.3	6530.2	5563.6	5179.6	5194.7	5502.9	6114.6	6812.7
35°	9456.8	9401.9	9125.2	8498.4	7506.1	6355.1	5648.9	5626.7	5711.9	6302.6	7022.8
37.5°	10235.4	10285.6	9978.6	9382.1	8381.6	7178.1	6281.6	6215.0	6038.7	6608.4	7327.5
40°	10886.8	10886.8	10726.9	10229.6	9327.2	8029.1	6997.2	6909.6	6530.2	7080.0	7713.9
42.5°	11121.4	11171.6	11231.2	10949.8	10173.5	8914.0	7794.5	7703.4	7222.5	7748.9	8201.9
45°	11135.4	11214.8	11519.5	11518.3	10938.2	9793.0	8693.3	8650.1	8109.6	8608.1	8806.6
47.5°	10938.2	11037.4	11539.3	11824.2	11544.0	10611.3	9676.2	9622.5	9152.1	9661.1	9439.3
50°	10633.5	10743.2	11326.9	11944.4	11956.1	11323.4	10711.7	10631.1	10299.6	10864.6	10093.0
52.5°	10088.3	10300.8	11136.6	11972.4	12226.9	11938.6	11696.9	11661.9	11583.7	12023.8	10613.6
55°	8922.1	9157.9	10659.2	11981.8	12477.9	12483.7	12620.3	12629.7	12787.3	13107.1	11001.2
57.5°	8371.1	8504.2	9825.7	12026.1	12850.3	13102.4	13561.2	13633.6	13877.6	14135.6	11443.6
60°	8024.4	8182.0	9414.8	11965.4	13435.1	13913.8	14433.2	14457.7	14719.2	15196.7	12042.5
62.5°	7747.8	7903.0	9155.6	11732.0	14092.4	14889.7	15285.4	15287.7	15483.9	16460.9	12723.0
65°	7064.9	7195.6	8631.5	11469.3	14526.6	15855.1	16275.3	16260.1	16420.1	17794.1	13513.3
67.5°	6077.3	6177.7	7561.0	10473.5	14363.2	16732.9	17769.5	17719.3	17525.6	18946.2	13823.9
70°	4698.6	4734.8	5959.4	8728.3	12831.6	17070.3	19213.6	19187.9	18203.8	18739.6	12685.7
71°	3883.8	4002.9	5251.9	7703.4	11805.5	16758.6	19353.6	19368.8	18033.4	18176.9	11902.4
72.5°	2255.3	2356.9	3806.8	5916.2	10022.9	15458.2	18627.6	18737.3	17237.2	16533.3	10166.5
75°	483.3	517.1	1411.3	2863.5	5513.4	10834.3	14702.9	15094.0	14049.2	11247.5	6127.5
77.5°	336.2	363.0	604.7	1299.3	1822.2	5353.5	9133.4	9574.7	8393.3	4227.0	1961.2
80°	266.2	296.5	471.6	642.0	492.6	1726.5	4278.4	4548.0	2799.3	943.2	330.4
82.5°	148.3	176.3	367.7	346.7	189.1	328.0	1197.7	1354.1	560.3	190.3	78.2
85°	43.2	52.5	237.0	252.1	80.5	63.0	204.3	253.3	106.2	50.2	35.0
87.5°	0.0	0.0	114.4	96.9	23.3	9.3	18.7	21.0	21.0	21.0	23.3
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°	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8	5013.8
2.5°	5033.7	5041.8	5012.6	4974.1	4933.3	4883.1	4830.5	4789.7	4788.5	4768.7	4748.8
5°	5095.5	5090.9	5010.3	4887.7	4743.0	4592.4	4448.8	4286.5	4232.8	4166.3	4144.1
7.5°	5209.9	5177.2	5006.8	4738.3	4420.8	4105.6	3779.9	3451.9	3311.8	3185.7	3163.5
10°	5353.5	5291.6	4984.6	4514.2	3931.7	3350.3	2858.9	2412.9	2216.8	2066.2	2059.2
12.5°	5502.9	5408.4	4922.8	4175.6	3290.8	2473.6	1907.5	1468.5	1305.1	1200.0	1209.4
15°	5659.4	5518.1	4789.7	3719.2	2561.2	1678.7	1172.0	914.0	848.7	821.8	828.8
17.5°	5819.3	5594.0	4604.1	3169.4	1840.9	1083.3	811.3	738.9	738.9	744.8	747.1
20°	5958.2	5634.8	4330.9	2553.0	1247.9	789.1	709.8	699.2	705.1	714.4	715.6
22.5°	6095.9	5637.2	3974.9	1928.5	873.2	691.1	675.9	671.2	674.7	685.2	686.4
25°	6208.0	5609.2	3528.9	1371.6	696.9	651.4	644.4	642.0	644.4	657.2	657.2
27.5°	6253.5	5507.6	2984.9	964.2	624.5	607.0	604.7	607.0	610.5	619.9	621.0
30°	6258.2	5330.2	2391.9	698.1	566.2	547.5	552.2	560.3	556.8	554.5	556.8
32.5°	6269.9	5124.7	1814.1	574.3	517.1	488.0	482.1	482.1	468.1	459.9	455.3
35°	6308.4	4883.1	1315.6	516.0	466.9	433.1	410.9	385.2	358.4	344.4	340.9
37.5°	6369.1	4629.7	942.1	477.4	422.6	384.1	342.0	296.5	258.0	247.5	247.5
40°	6480.0	4368.3	696.9	447.1	387.6	339.7	276.7	217.1	182.1	176.3	176.3
42.5°	6655.1	4092.8	555.7	420.2	357.2	294.2	211.3	157.6	131.9	128.4	127.2
45°	6837.2	3789.2	485.6	394.6	324.5	241.6	156.4	116.7	101.6	98.1	98.1
47.5°	7019.3	3465.9	451.8	370.1	293.0	187.9	116.7	92.2	85.2	85.2	86.4
50°	7173.4	3128.5	427.3	343.2	252.1	142.4	92.2	78.2	75.9	80.5	81.7
52.5°	7211.9	2797.0	396.9	309.4	202.0	108.6	75.9	68.9	68.9	68.9	68.9
55°	7188.6	2540.2	357.2	267.3	149.4	86.4	65.4	60.7	59.5	59.5	59.5
57.5°	7268.0	2388.4	286.0	207.8	107.4	70.0	57.2	53.7	51.4	50.2	50.2
60°	7427.9	2289.2	204.3	149.4	80.5	58.4	49.0	45.5	42.0	39.7	39.7
62.5°	7640.4	2202.8	151.8	110.9	61.9	46.7	40.9	37.4	32.7	30.4	30.4
65°	7803.8	2048.7	115.6	82.9	46.7	37.4	31.5	30.4	23.3	21.0	19.8
67.5°	7554.0	1710.2	93.4	60.7	35.0	29.2	24.5	23.3	14.0	11.7	11.7
70°	6478.8	1190.7	74.7	44.4	25.7	23.3	19.8	15.2	10.5	9.3	9.3
71°	5875.3	994.6	67.7	37.4	22.2	22.2	18.7	12.8	9.3	8.2	8.2
72.5°	4880.7	706.3	57.2	29.2	19.8	23.3	19.8	11.7	9.3	8.2	7.0
75°	2833.2	295.3	39.7	19.8	15.2	28.0	25.7	10.5	7.0	5.8	5.8
77.5°	852.2	108.6	22.2	12.8	11.7	24.5	29.2	9.3	3.5	1.2	1.2
80°	155.3	46.7	14.0	8.2	8.2	15.2	22.2	4.7	0.0	0.0	0.0
82.5°	54.9	23.3	8.2	4.7	3.5	7.0	10.5	0.0	0.0	0.0	0.0
85°	31.5	16.3	4.7	2.3	0.0	1.2	2.3	0.0	0.0	0.0	0.0
87.5°	21.0	4.7	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)