

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: P323752

Luminaire Tested: **GAN-SA8A-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25350 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

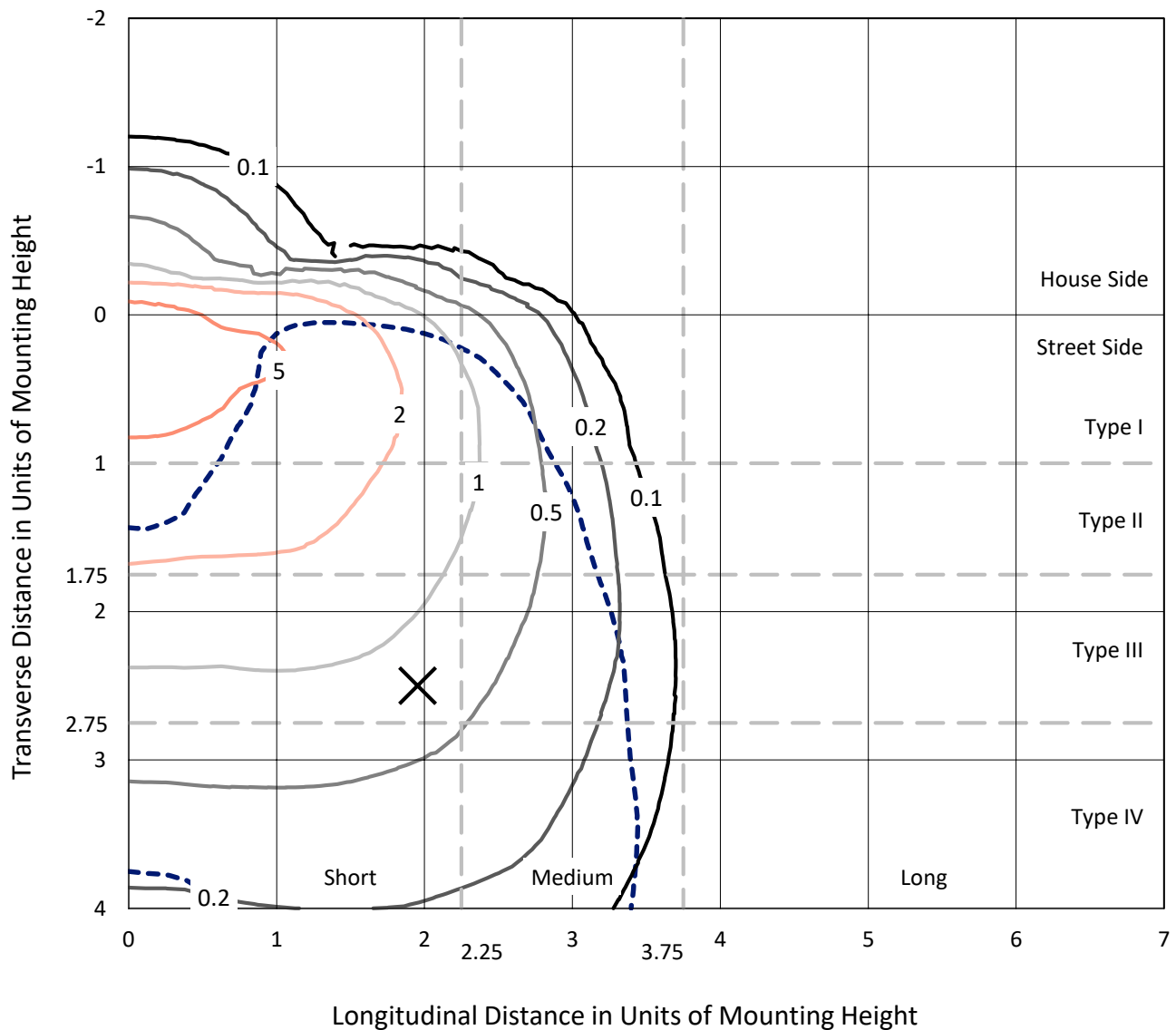
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

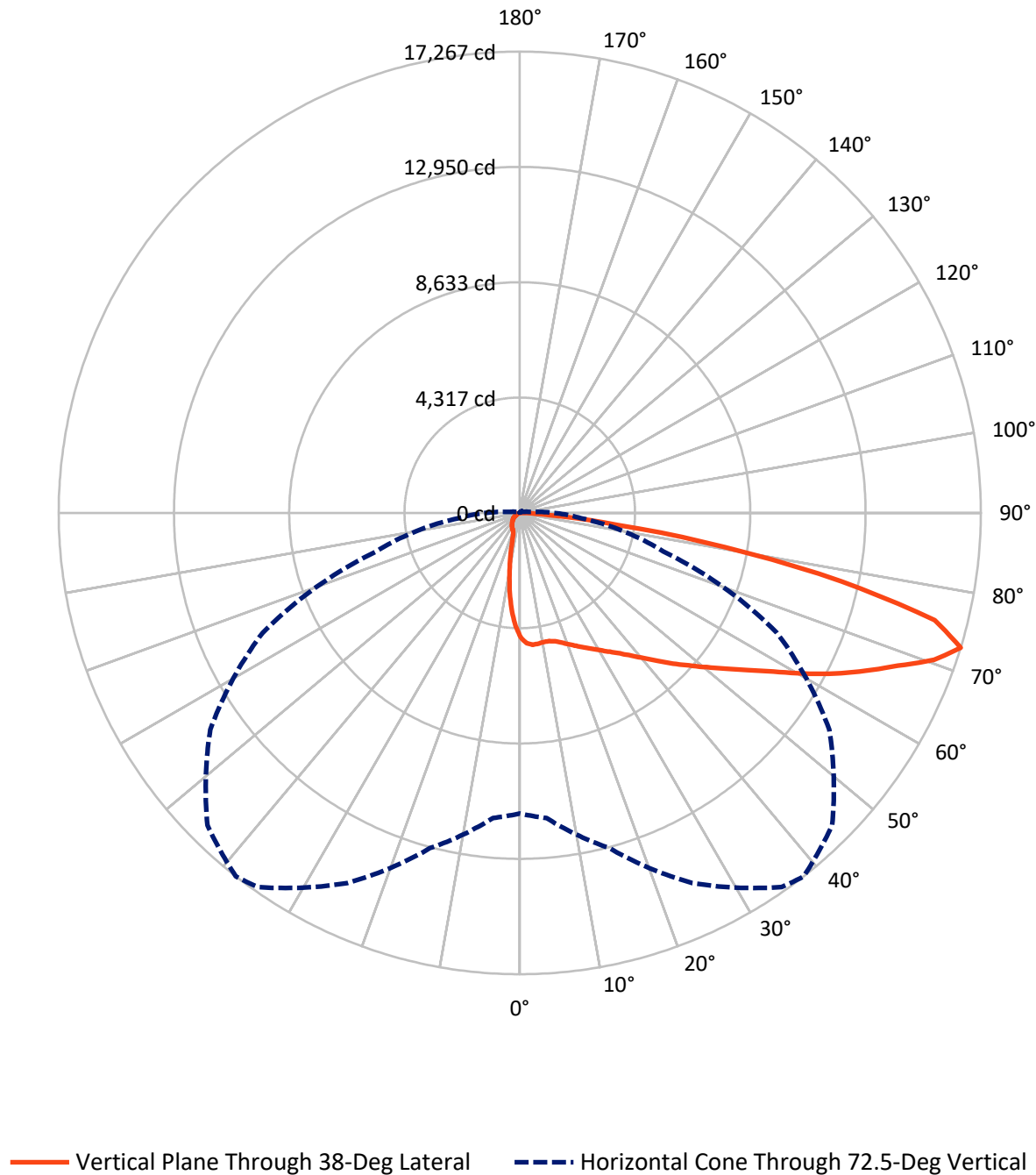
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	2133.3	0.0	2133.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	23216.7	0.0	23216.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	25350.0	0.0	25350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.3	1.6
10°-20°	971.4	3.8
20°-30°	1545.0	6.1
30°-40°	2322.8	9.2
40°-50°	3543.6	14.0
50°-60°	5008.3	19.8
60°-70°	6282.0	24.8
70°-80°	4697.2	18.5
80°-90°	582.4	2.3
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°	25350.0	100.0
0°-180°	25350.0	100.0

Coefficient of Utilization



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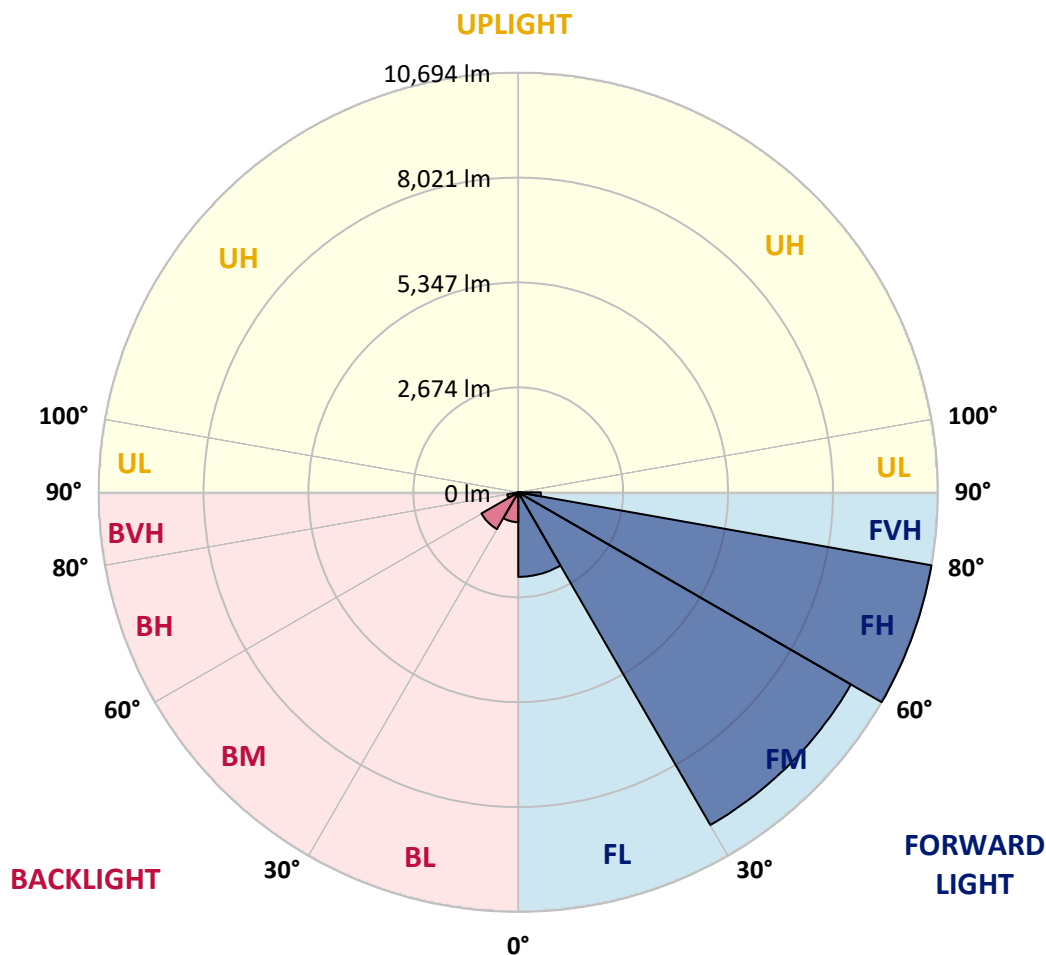
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2154.1	8.5			
FM	(30°-60°)	9791.3	38.6			
FH	(60°-80°)	10694.3	42.2			G4/12000
FVH	(80°-90°)	577.0	2.3			G4/750
BL	(0°-30°)	759.6	3.0	B2/1000		
BM	(30°-60°)	1083.3	4.3	B2/2500		
BH	(60°-80°)	285.0	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8
2.5°	4948.1	4949.2	4937.6	4918.7	4894.4	4881.8	4860.8	4827.1	4791.3	4727.1	4657.6
5°	5049.2	5049.2	5034.5	5009.2	4970.3	4958.7	4918.7	4865.0	4791.3	4687.0	4570.2
7.5°	5038.7	5040.8	5020.8	4994.5	4955.5	4945.0	4896.6	4836.5	4745.0	4618.6	4469.1
10°	4983.9	4989.2	4973.4	4960.8	4925.0	4913.4	4868.1	4808.1	4716.5	4581.8	4410.2
12.5°	4928.1	4933.4	4938.7	4950.2	4928.1	4923.9	4888.1	4837.6	4750.2	4610.2	4416.5
15°	4892.3	4902.9	4940.8	4986.0	4991.3	4987.1	4963.9	4916.6	4828.1	4682.8	4461.8
17.5°	4892.3	4909.2	4988.1	5074.5	5105.0	5108.2	5088.2	5021.8	4916.6	4760.7	4503.9
20°	4933.4	4956.6	5079.7	5201.9	5252.4	5252.4	5213.4	5120.8	4997.6	4831.3	4532.3
22.5°	5038.7	5069.2	5224.0	5365.0	5418.7	5407.2	5354.5	5219.8	5081.8	4911.3	4568.1
25°	5246.1	5269.2	5430.3	5572.5	5605.1	5578.8	5512.4	5339.8	5189.2	5019.7	4633.4
27.5°	5513.5	5516.7	5683.0	5803.0	5783.0	5765.1	5681.9	5490.3	5344.0	5174.5	4746.0
30°	5807.2	5807.2	5953.6	6045.2	5984.1	5969.4	5886.2	5672.5	5541.9	5385.1	4906.0
32.5°	6091.5	6104.1	6223.1	6281.0	6212.6	6197.8	6116.7	5903.0	5805.1	5706.2	5155.5
35°	6366.3	6375.7	6488.4	6520.0	6454.7	6458.9	6401.0	6219.9	6183.1	6170.4	5531.4
37.5°	6632.6	6634.7	6749.5	6769.5	6736.8	6772.6	6777.9	6617.9	6686.3	6788.4	6060.9
40°	6875.8	6877.9	6991.6	7043.2	7099.0	7145.3	7186.4	7101.1	7327.5	7564.3	6691.6
42.5°	7070.6	7092.7	7236.9	7334.8	7482.2	7570.7	7682.3	7678.0	8090.7	8446.6	7453.8
45°	7242.2	7280.1	7481.2	7652.8	7905.4	8046.5	8221.3	8358.1	8949.8	9428.8	8225.5
47.5°	7468.5	7504.3	7733.8	8014.9	8351.8	8537.1	8826.6	9122.5	9894.2	10393.2	8979.3
50°	7787.5	7771.7	7998.1	8401.3	8834.0	9077.2	9489.9	9933.1	10831.2	11233.3	9422.5
52.5°	8127.6	8121.3	8288.7	8821.4	9402.5	9686.8	10232.1	10771.2	11727.1	11812.4	9625.7
55°	8548.7	8503.4	8644.5	9300.4	10077.4	10382.7	11024.9	11600.8	12440.9	12138.7	9727.8
57.5°	8989.8	8915.1	9049.8	9834.2	10838.5	11199.6	11902.9	12409.3	12915.7	12361.9	9726.8
60°	9445.7	9357.3	9517.3	10501.6	11783.9	12201.9	12854.6	12955.7	13358.9	12474.6	9655.2
62.5°	9826.8	9774.2	10012.1	11215.4	12839.9	13250.5	13573.7	13452.6	13732.7	12562.0	9487.8
65°	10230.0	10233.2	10617.4	12048.2	13962.2	14239.1	14266.4	14096.9	14045.4	12544.1	8921.4
67.5°	10775.4	10825.9	11467.1	13178.9	15053.9	15267.7	15265.5	14794.9	14273.8	11832.4	7665.4
70°	11352.3	11471.3	12446.2	14472.8	16245.7	16462.6	16351.0	15239.2	13440.0	9567.8	5425.1
72.5°	11255.4	11461.8	12990.5	15288.7	17101.6	17266.9	16541.5	14147.5	10622.7	5560.9	2309.8
75°	8683.5	8922.4	11911.3	14480.2	16203.6	16055.1	14212.7	11009.1	5805.1	1551.8	520.1
77.5°	4587.0	4714.4	7868.6	11031.2	12634.6	12324.0	10012.1	6107.3	1769.8	384.3	233.7
80°	2402.5	2432.0	3429.0	6258.9	7798.1	7800.2	5933.6	2682.5	729.6	196.9	156.9
82.5°	1286.5	1311.8	1811.9	2892.0	4085.9	3703.7	2271.9	1476.0	424.3	111.6	150.5
85°	309.5	314.8	1027.5	1321.3	1606.6	1147.5	674.8	1239.1	114.8	65.3	122.1
87.5°	119.0	121.1	381.1	571.7	409.5	265.3	315.8	462.2	14.7	25.3	19.0
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°	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8
2.5°	4615.5	4588.1	4520.7	4435.4	4359.6	4304.9	4222.8	4169.1	4133.3	4132.2	4118.5
5°	4498.6	4442.8	4297.5	4124.9	3968.0	3826.9	3660.6	3529.0	3431.1	3415.3	3381.6
7.5°	4373.3	4281.7	4058.5	3789.0	3525.8	3258.4	2947.8	2755.2	2589.9	2510.9	2502.5
10°	4296.5	4168.0	3851.1	3461.6	3048.9	2614.1	2207.7	1926.6	1723.4	1665.5	1622.4
12.5°	4280.7	4111.2	3691.1	3154.2	2564.6	1989.8	1540.2	1241.2	1079.1	1027.5	1013.8
15°	4296.5	4084.8	3556.3	2849.9	2074.0	1411.8	1033.8	860.1	799.1	784.3	783.3
17.5°	4305.9	4053.3	3403.7	2512.0	1598.1	1008.6	791.7	741.2	731.7	730.6	732.7
20°	4304.9	4004.8	3221.6	2135.1	1188.6	792.8	715.9	705.4	703.3	704.3	703.3
22.5°	4297.5	3948.0	3021.5	1746.6	898.0	708.5	683.3	676.9	675.9	675.9	675.9
25°	4311.2	3902.7	2801.5	1375.0	740.1	669.6	653.8	648.5	647.5	647.5	645.4
27.5°	4360.7	3877.4	2560.4	1058.1	668.5	634.8	622.2	621.1	618.0	616.9	619.0
30°	4440.7	3877.4	2296.1	823.3	625.4	599.0	589.6	587.5	586.4	585.4	586.4
32.5°	4581.8	3906.9	2007.7	684.3	584.3	559.0	552.7	555.9	552.7	552.7	552.7
35°	4836.5	3995.4	1705.5	596.9	541.1	520.1	513.8	518.0	515.9	515.9	514.8
37.5°	5208.2	4159.6	1401.3	544.3	503.2	481.1	472.7	479.0	476.9	476.9	475.9
40°	5660.9	4398.6	1111.8	504.3	466.4	443.2	435.9	439.0	433.8	433.8	435.9
42.5°	6219.9	4701.8	859.1	465.3	429.5	407.4	403.2	400.1	390.6	385.3	386.4
45°	6841.1	5017.6	669.6	427.4	394.8	376.9	370.6	362.2	346.4	335.8	336.9
47.5°	7395.9	5260.8	544.3	390.6	363.2	349.5	340.1	324.3	301.1	288.5	289.5
50°	7687.5	5297.7	463.2	353.7	333.7	320.1	306.4	282.1	254.8	241.1	240.0
52.5°	7762.3	5125.0	403.2	320.1	304.3	288.5	270.6	237.9	207.4	192.7	190.6
55°	7789.6	4861.8	349.5	288.5	272.7	254.8	231.6	194.8	166.3	151.6	150.5
57.5°	7699.1	4469.1	307.4	260.0	241.1	219.0	190.6	155.8	128.4	116.9	116.9
60°	7498.0	3937.5	274.8	229.5	208.5	183.2	153.7	121.1	95.8	86.3	86.3
62.5°	7096.9	3248.9	244.2	197.9	177.9	151.6	124.2	91.6	67.4	62.1	63.2
65°	6339.9	2464.6	213.7	169.5	151.6	125.3	96.9	65.3	45.3	45.3	47.4
67.5°	5170.3	1711.8	182.1	144.2	130.5	102.1	73.7	45.3	31.6	35.8	40.0
70°	3422.6	960.2	155.8	119.0	111.6	81.1	54.7	30.5	25.3	33.7	41.1
72.5°	1291.8	373.7	130.5	95.8	96.9	62.1	39.0	23.2	23.2	36.8	48.4
75°	360.1	183.2	93.7	70.5	75.8	45.3	28.4	20.0	22.1	42.1	56.9
77.5°	211.6	134.8	61.1	41.1	51.6	31.6	19.0	15.8	19.0	35.8	54.7
80°	170.6	71.6	35.8	21.1	28.4	17.9	12.6	9.5	5.3	13.7	28.4
82.5°	170.6	43.2	16.8	14.7	14.7	9.5	6.3	4.2	1.1	0.0	7.4
85°	114.8	17.9	10.5	9.5	7.4	3.2	2.1	1.1	0.0	0.0	0.0
87.5°	19.0	7.4	4.2	2.1	1.1	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)