

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: P323938

Luminaire Tested: **GAN-SA4D-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323938
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-SA4D-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA 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: 25402 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

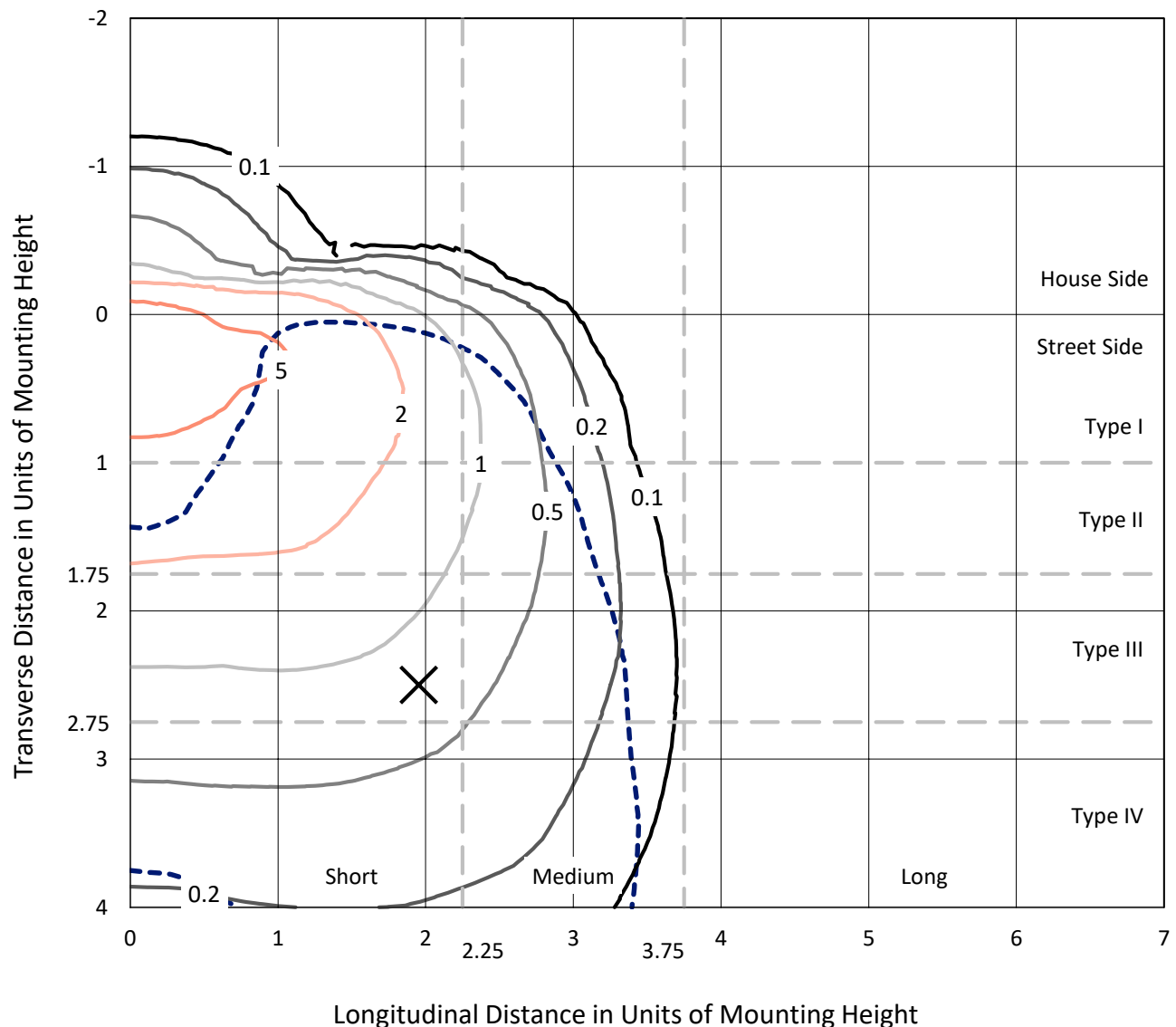
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

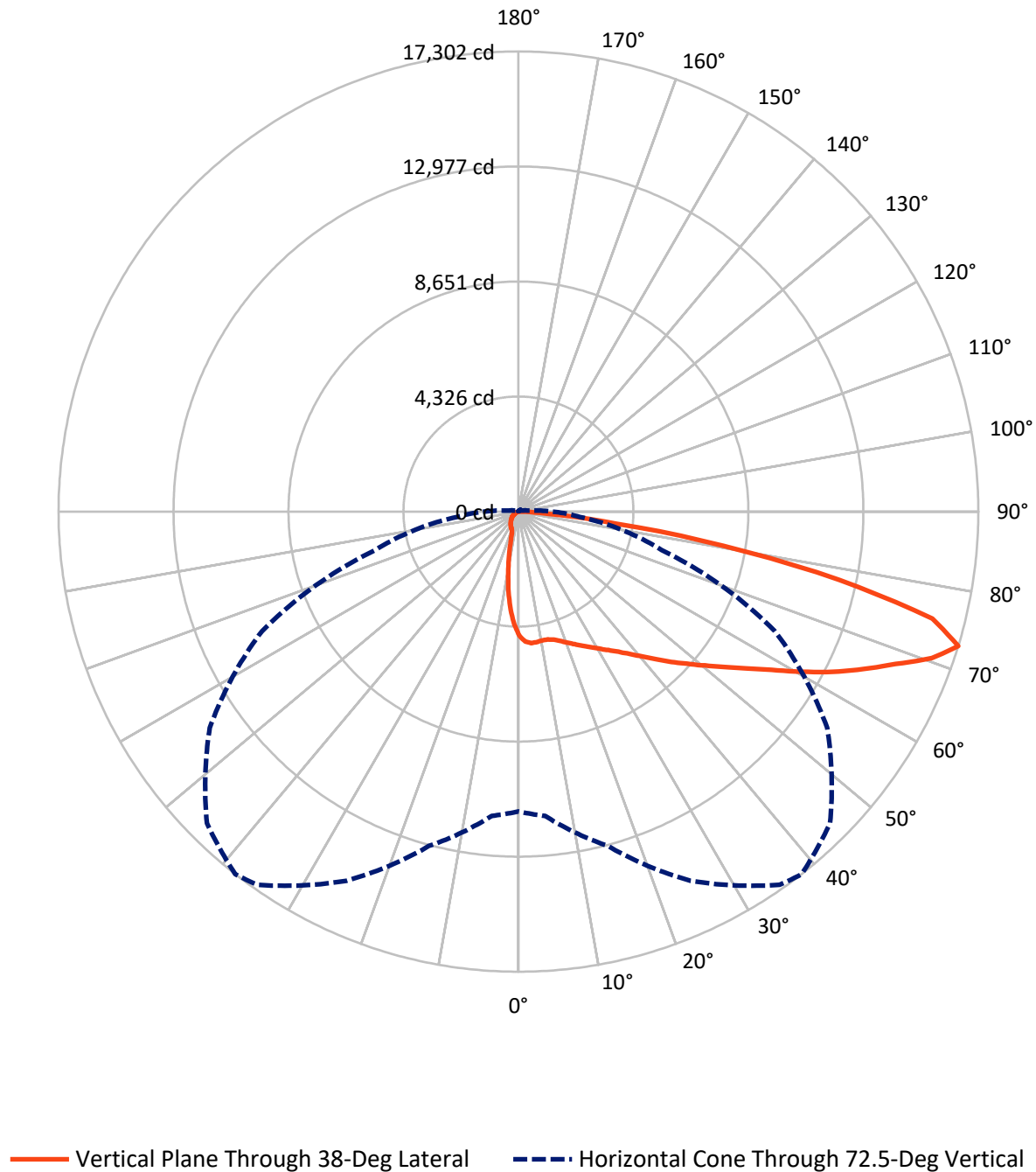
× Max cd
 - - - 1/2 Max cd



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	2137.7	0.0	2137.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	23264.3	0.0	23264.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	25402.0	0.0	25402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.1	1.6
10°-20°	973.4	3.8
20°-30°	1548.2	6.1
30°-40°	2327.6	9.2
40°-50°	3550.8	14.0
50°-60°	5018.5	19.8
60°-70°	6294.9	24.8
70°-80°	4706.8	18.5
80°-90°	583.6	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°	25402.0	100.0
0°-180°	25402.0	100.0

Coefficient of Utilization



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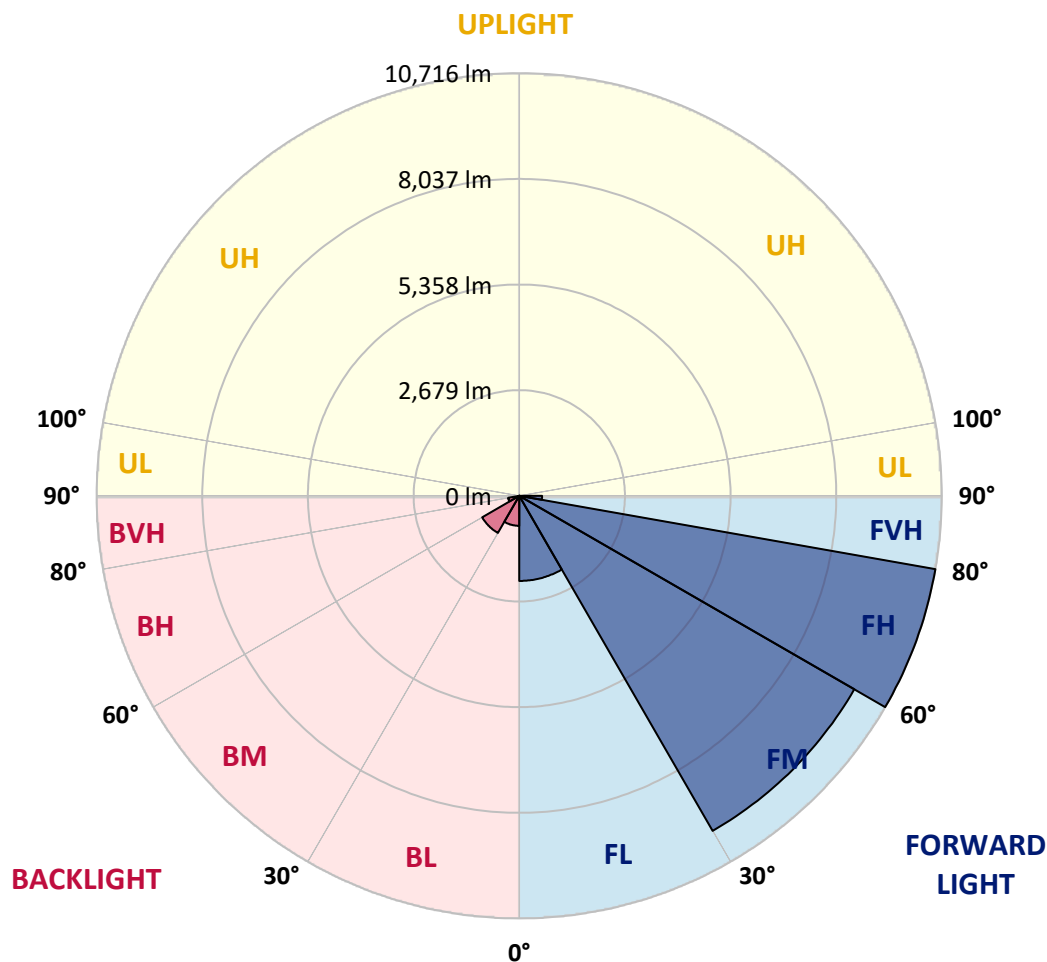
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2158.6	8.5			
FM	(30°-60°)	9811.4	38.6			
FH	(60°-80°)	10716.2	42.2			G4/12000
FVH	(80°-90°)	578.2	2.3			G4/750
BL	(0°-30°)	761.1	3.0	B2/1000		
BM	(30°-60°)	1085.5	4.3	B2/2500		
BH	(60°-80°)	285.5	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°	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3
2.5°	4958.3	4959.3	4947.7	4928.8	4904.5	4891.8	4870.7	4837.0	4801.1	4736.8	4667.1
5°	5059.6	5059.6	5044.8	5019.5	4980.4	4968.8	4928.8	4875.0	4801.1	4696.7	4579.6
7.5°	5049.0	5051.1	5031.1	5004.7	4965.7	4955.1	4906.6	4846.5	4754.7	4628.1	4478.3
10°	4994.2	4999.4	4983.6	4971.0	4935.1	4923.5	4878.1	4818.0	4726.2	4591.2	4419.2
12.5°	4938.2	4943.5	4948.8	4960.4	4938.2	4934.0	4898.2	4847.5	4760.0	4619.7	4425.5
15°	4902.4	4912.9	4950.9	4996.3	5001.5	4997.3	4974.1	4926.6	4838.0	4692.4	4470.9
17.5°	4902.4	4919.3	4998.4	5084.9	5115.5	5118.6	5098.6	5032.1	4926.6	4770.5	4513.1
20°	4943.5	4966.7	5090.2	5212.5	5263.2	5263.2	5224.1	5131.3	5007.9	4841.2	4541.6
22.5°	5049.0	5079.6	5234.7	5376.1	5429.9	5418.3	5365.5	5230.5	5092.3	4921.4	4577.5
25°	5256.8	5280.1	5441.5	5583.9	5616.6	5590.2	5523.7	5350.7	5199.9	5030.0	4642.9
27.5°	5524.8	5528.0	5694.7	5814.9	5794.9	5776.9	5693.6	5501.6	5355.0	5185.1	4755.7
30°	5819.1	5819.1	5965.8	6057.6	5996.4	5981.6	5898.3	5684.1	5553.3	5396.1	4916.1
32.5°	6104.0	6116.6	6235.8	6293.9	6225.3	6210.5	6129.3	5915.1	5817.0	5717.9	5166.1
35°	6379.3	6388.8	6501.7	6533.3	6467.9	6472.2	6414.1	6232.7	6195.8	6183.1	5542.7
37.5°	6646.2	6648.3	6763.3	6783.4	6750.7	6786.5	6791.8	6631.5	6700.0	6802.4	6073.4
40°	6889.9	6892.0	7006.0	7057.7	7113.6	7160.0	7201.1	7115.7	7342.5	7579.9	6705.3
42.5°	7085.1	7107.2	7251.8	7349.9	7497.6	7586.2	7698.0	7693.8	8107.3	8463.9	7469.1
45°	7257.0	7295.0	7496.5	7668.5	7921.7	8063.0	8238.1	8375.3	8968.2	9448.2	8242.4
47.5°	7483.9	7519.7	7749.7	8031.4	8369.0	8554.6	8844.7	9141.2	9914.5	10414.5	8997.7
50°	7803.5	7787.7	8014.5	8418.5	8852.1	9095.8	9509.4	9953.5	10853.4	11256.4	9441.9
52.5°	8144.3	8137.9	8305.7	8839.5	9421.8	9706.6	10253.1	10793.3	11751.2	11836.6	9645.5
55°	8566.2	8520.9	8662.2	9319.5	10098.0	10404.0	11047.5	11624.6	12466.4	12163.6	9747.8
57.5°	9008.3	8933.4	9068.4	9854.3	10860.8	11222.6	11927.3	12434.8	12942.2	12387.3	9746.7
60°	9465.1	9376.4	9536.8	10523.2	11808.1	12226.9	12881.0	12982.3	13386.3	12500.2	9675.0
62.5°	9847.0	9794.2	10032.6	11238.4	12866.2	13277.7	13601.5	13480.2	13760.8	12587.7	9507.3
65°	10251.0	10254.2	10639.2	12072.9	13990.8	14268.3	14295.7	14125.9	14074.2	12569.8	8939.7
67.5°	10797.5	10848.1	11490.6	13205.9	15084.8	15299.0	15296.9	14825.3	14303.1	11856.6	7681.1
70°	11375.6	11494.8	12471.7	14502.5	16279.0	16496.3	16384.5	15270.5	13467.6	9587.4	5436.2
72.5°	11278.5	11485.3	13017.1	15320.1	17136.7	17302.3	16575.5	14176.5	10644.5	5572.3	2314.6
75°	8701.3	8940.8	11935.8	14509.9	16236.8	16088.1	14241.9	11031.7	5817.0	1555.0	521.1
77.5°	4596.4	4724.1	7884.7	11053.8	12660.5	12349.3	10032.6	6119.8	1773.4	385.1	234.2
80°	2407.4	2436.9	3436.0	6271.7	7814.1	7816.2	5945.7	2688.0	731.1	197.3	157.2
82.5°	1289.2	1314.5	1815.6	2898.0	4094.3	3711.3	2276.6	1479.0	425.1	111.8	150.9
85°	310.2	315.4	1029.6	1324.0	1609.9	1149.9	676.2	1241.7	115.0	65.4	122.4
87.5°	119.2	121.3	381.9	572.8	410.4	265.8	316.5	463.1	14.8	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°	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3
2.5°	4624.9	4597.5	4530.0	4444.5	4368.6	4313.7	4231.4	4177.6	4141.8	4140.7	4127.0
5°	4507.8	4451.9	4306.3	4133.3	3976.1	3834.8	3668.1	3536.2	3438.1	3422.3	3388.5
7.5°	4382.3	4290.5	4066.9	3796.8	3533.0	3265.1	2953.9	2760.8	2595.2	2516.1	2507.6
10°	4305.3	4176.6	3859.0	3468.7	3055.2	2619.5	2212.2	1930.6	1727.0	1668.9	1625.7
12.5°	4289.5	4119.6	3698.7	3160.6	2569.9	1993.9	1543.4	1243.8	1081.3	1029.6	1015.9
15°	4305.3	4093.2	3563.6	2855.8	2078.3	1414.7	1036.0	861.9	800.7	785.9	784.9
17.5°	4314.8	4061.6	3410.7	2517.1	1601.4	1010.6	793.3	742.7	733.2	732.1	734.2
20°	4313.7	4013.1	3228.2	2139.5	1191.0	794.4	717.4	706.8	704.7	705.8	704.7
22.5°	4306.3	3956.1	3027.7	1750.2	899.9	710.0	684.7	678.3	677.3	677.3	677.3
25°	4320.0	3910.7	2807.2	1377.8	741.6	671.0	655.1	649.9	648.8	648.8	646.7
27.5°	4369.6	3885.4	2565.7	1060.2	669.9	636.1	623.5	622.4	619.3	618.2	620.3
30°	4449.8	3885.4	2300.9	825.0	626.6	600.3	590.8	588.7	587.6	586.6	587.6
32.5°	4591.2	3914.9	2011.8	685.7	585.5	560.2	553.9	557.0	553.9	553.9	553.9
35°	4846.5	4003.6	1709.0	598.2	542.2	521.1	514.8	519.0	516.9	516.9	515.9
37.5°	5218.9	4168.1	1404.1	545.4	504.3	482.1	473.7	480.0	477.9	477.9	476.8
40°	5672.5	4407.6	1114.0	505.3	467.3	444.1	436.8	439.9	434.6	434.6	436.8
42.5°	6232.7	4711.4	860.8	466.3	430.4	408.3	404.0	400.9	391.4	386.1	387.2
45°	6855.1	5027.9	671.0	428.3	395.6	377.7	371.3	362.9	347.1	336.5	337.6
47.5°	7411.1	5271.6	545.4	391.4	364.0	350.2	340.8	324.9	301.7	289.1	290.1
50°	7703.3	5308.5	464.2	354.5	334.4	320.7	307.0	282.7	255.3	241.6	240.5
52.5°	7778.2	5135.5	404.0	320.7	304.9	289.1	271.1	238.4	207.8	193.1	190.9
55°	7805.6	4871.8	350.2	289.1	273.2	255.3	232.1	195.2	166.7	151.9	150.9
57.5°	7714.9	4478.3	308.0	260.6	241.6	219.4	190.9	156.1	128.7	117.1	117.1
60°	7513.4	3945.5	275.3	230.0	208.9	183.6	154.0	121.3	96.0	86.5	86.5
62.5°	7111.5	3255.6	244.7	198.3	178.3	151.9	124.5	91.8	67.5	62.2	63.3
65°	6352.9	2469.7	214.2	169.8	151.9	125.5	97.1	65.4	45.4	45.4	47.5
67.5°	5180.9	1715.4	182.5	144.5	130.8	102.3	73.8	45.4	31.6	35.9	40.1
70°	3429.7	962.1	156.1	119.2	111.8	81.2	54.9	30.6	25.3	33.8	41.1
72.5°	1294.4	374.5	130.8	96.0	97.1	62.2	39.0	23.2	23.2	36.9	48.5
75°	360.8	183.6	93.9	70.7	76.0	45.4	28.5	20.0	22.2	42.2	57.0
77.5°	212.0	135.0	61.2	41.1	51.7	31.6	19.0	15.8	19.0	35.9	54.9
80°	170.9	71.7	35.9	21.1	28.5	17.9	12.7	9.5	5.3	13.7	28.5
82.5°	170.9	43.3	16.9	14.8	14.8	9.5	6.3	4.2	1.1	0.0	7.4
85°	115.0	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)