

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: P323912

Luminaire Tested: **GAN-SA8A-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323912
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-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 30312 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

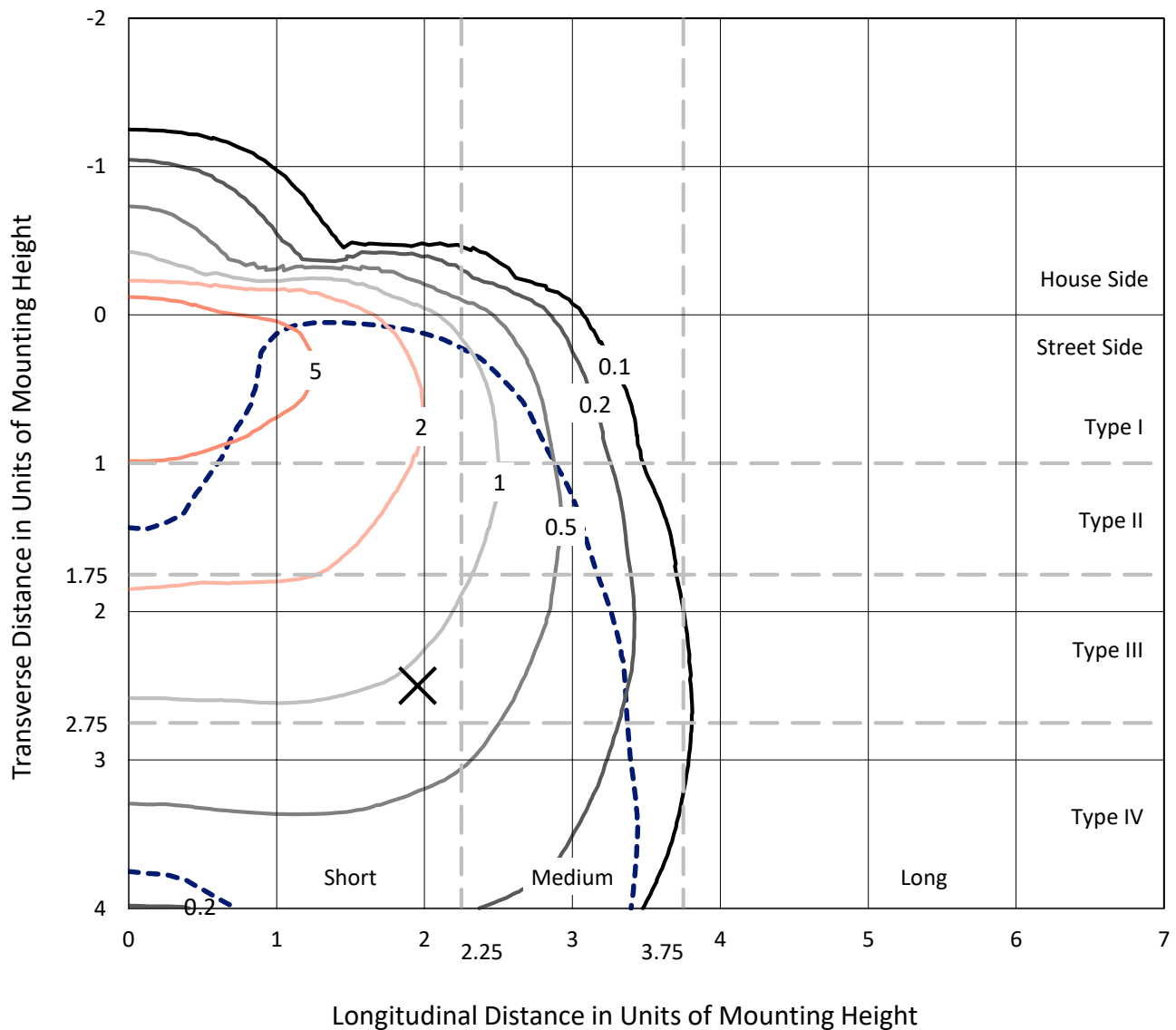
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

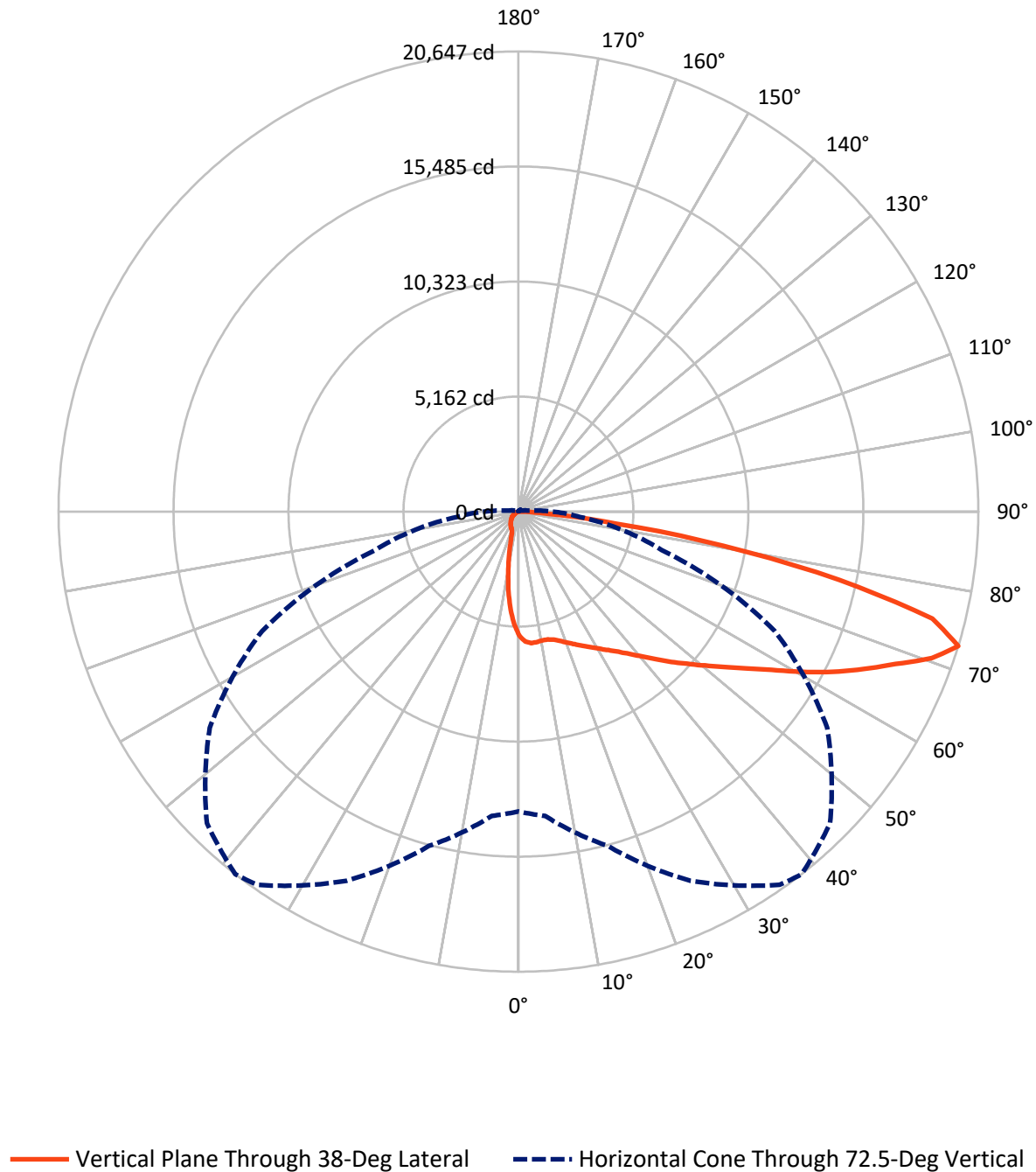
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	2550.9	0.0	2550.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	27761.1	0.0	27761.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	30312.0	0.0	30312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.0	1.6
10°-20°	1161.6	3.8
20°-30°	1847.5	6.1
30°-40°	2777.4	9.2
40°-50°	4237.2	14.0
50°-60°	5988.6	19.8
60°-70°	7511.7	24.8
70°-80°	5616.6	18.5
80°-90°	696.4	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°	30312.0	100.0
0°-180°	30312.0	100.0

Coefficient of Utilization



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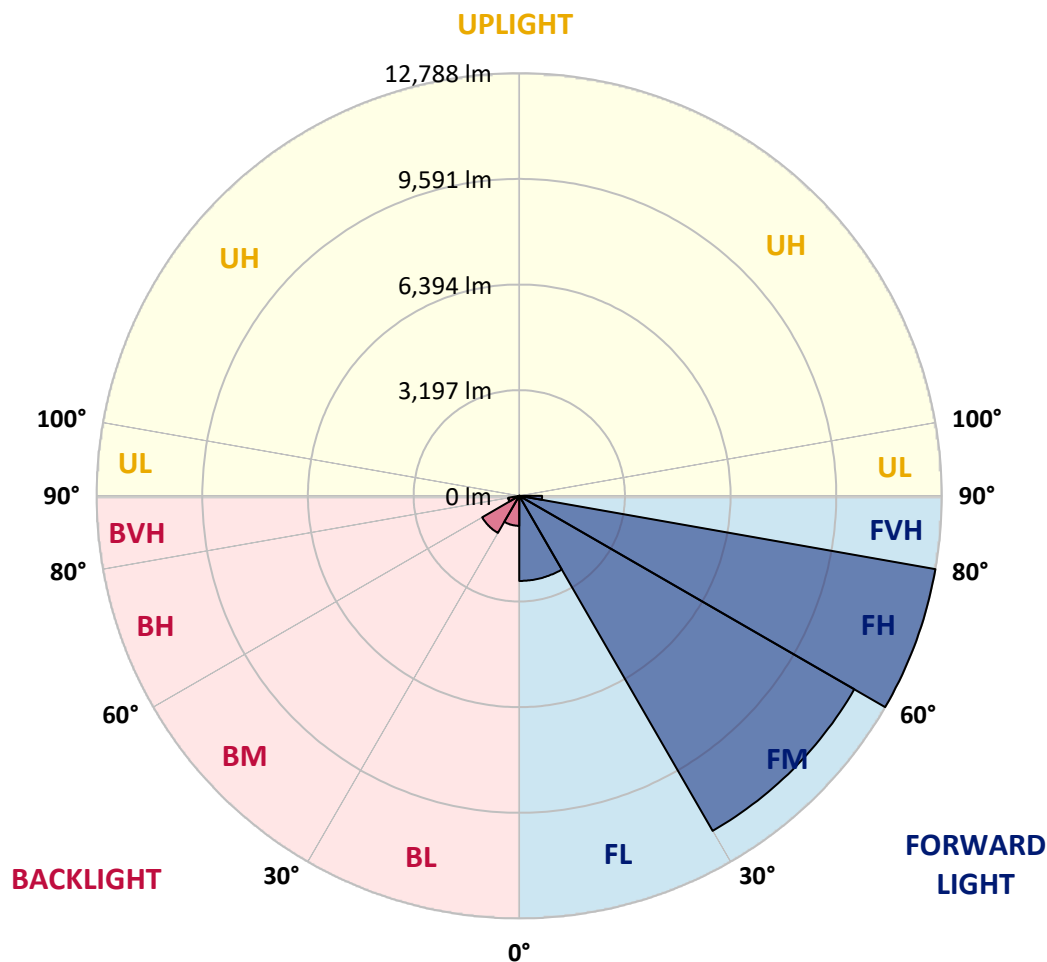
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2575.8	8.5			
FM	(30°-60°)	11707.8	38.6			
FH	(60°-80°)	12787.6	42.2			G5
FVH	(80°-90°)	689.9	2.3			G4/750
BL	(0°-30°)	908.3	3.0	B2/1000		
BM	(30°-60°)	1295.4	4.3	B2/2500		
BH	(60°-80°)	340.7	1.1	B1/500		G1/500
BVH	(80°-90°)	6.5	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°	38°	45°	55°	65°	75°	85°
0°	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3
2.5°	5916.7	5917.9	5904.1	5881.4	5852.5	5837.4	5812.2	5771.9	5729.1	5652.3	5569.2
5°	6037.5	6037.5	6019.9	5989.7	5943.1	5929.3	5881.4	5817.2	5729.1	5604.5	5464.8
7.5°	6025.0	6027.5	6003.6	5972.1	5925.5	5912.9	5855.0	5783.2	5673.7	5522.7	5343.9
10°	5959.5	5965.8	5946.9	5931.8	5889.0	5875.1	5821.0	5749.3	5639.7	5478.6	5273.4
12.5°	5892.8	5899.1	5905.4	5919.2	5892.8	5887.7	5844.9	5784.5	5680.0	5512.6	5281.0
15°	5850.0	5862.6	5907.9	5962.0	5968.3	5963.3	5935.6	5878.9	5773.2	5599.5	5335.1
17.5°	5850.0	5870.1	5964.5	6067.8	6104.3	6108.0	6084.1	6004.8	5878.9	5692.6	5385.4
20°	5899.1	5926.8	6074.0	6220.1	6280.5	6280.5	6233.9	6123.1	5975.9	5777.0	5419.4
22.5°	6025.0	6061.5	6246.5	6415.2	6479.4	6465.6	6402.6	6241.5	6076.6	5872.6	5462.2
25°	6272.9	6300.6	6493.3	6663.2	6702.2	6670.8	6591.4	6385.0	6205.0	6002.3	5540.3
27.5°	6592.7	6596.5	6795.4	6938.9	6915.0	6893.6	6794.1	6565.0	6390.0	6187.3	5675.0
30°	6943.9	6943.9	7118.9	7228.4	7155.4	7137.8	7038.3	6782.8	6626.7	6439.1	5866.3
32.5°	7283.8	7298.9	7441.2	7510.4	7428.6	7411.0	7314.0	7058.5	6941.4	6823.1	6164.7
35°	7612.4	7623.7	7758.4	7796.2	7718.1	7723.2	7653.9	7437.4	7393.3	7378.2	6614.1
37.5°	7930.9	7933.4	8070.6	8094.5	8055.5	8098.3	8104.6	7913.3	7995.1	8117.2	7247.3
40°	8221.7	8224.2	8360.2	8421.8	8488.6	8544.0	8593.0	8491.1	8761.7	9045.0	8001.4
42.5°	8454.6	8481.0	8653.5	8770.5	8946.8	9052.5	9186.0	9180.9	9674.4	10099.9	8912.8
45°	8659.8	8705.1	8945.5	9150.7	9452.9	9621.5	9830.5	9994.2	10701.7	11274.4	9835.6
47.5°	8930.4	8973.2	9247.7	9583.8	9986.6	10208.2	10554.4	10908.1	11830.9	12427.6	10736.9
50°	9311.9	9293.0	9563.6	10045.8	10563.2	10854.0	11347.5	11877.4	12951.3	13432.1	11266.9
52.5°	9718.5	9710.9	9911.1	10548.1	11243.0	11582.9	12235.0	12879.5	14022.6	14124.5	11509.8
55°	10222.0	10167.9	10336.6	11120.9	12049.9	12415.0	13182.9	13871.5	14876.1	14514.8	11632.0
57.5°	10749.5	10660.1	10821.2	11759.1	12960.1	13391.9	14232.8	14838.3	15443.8	14781.7	11630.7
60°	11294.6	11188.8	11380.2	12557.2	14090.5	14590.3	15370.8	15491.7	15973.8	14916.4	11545.1
62.5°	11750.3	11687.4	11971.9	13410.7	15353.2	15844.1	16230.6	16085.8	16420.7	15020.8	11344.9
65°	12232.4	12236.2	12695.7	14406.5	16695.1	17026.2	17058.9	16856.3	16794.6	14999.4	10667.7
67.5°	12884.5	12945.0	13711.6	15758.5	18000.6	18256.1	18253.6	17690.9	17067.8	14148.4	9165.8
70°	13574.4	13716.6	14882.4	17305.7	19425.6	19685.0	19551.5	18222.1	16070.7	11440.6	6487.0
72.5°	13458.6	13705.3	15533.2	18281.3	20449.1	20646.7	19779.4	16916.7	12702.0	6649.4	2762.0
75°	10383.2	10668.9	14242.9	17314.5	19375.3	19197.8	16994.7	13164.0	6941.4	1855.6	621.9
77.5°	5484.9	5637.2	9408.8	13190.4	15107.7	14736.3	11971.9	7302.7	2116.2	459.5	279.5
80°	2872.7	2908.0	4100.1	7484.0	9324.5	9327.0	7095.0	3207.6	872.4	235.4	187.6
82.5°	1538.3	1568.6	2166.5	3458.1	4885.7	4428.7	2716.6	1764.9	507.3	133.4	180.0
85°	370.1	376.4	1228.7	1579.9	1921.0	1372.2	806.9	1481.7	137.2	78.0	146.0
87.5°	142.3	144.8	455.7	683.6	489.7	317.2	377.7	552.6	17.6	30.2	22.7
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°	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3	5574.3
2.5°	5518.9	5486.2	5405.6	5303.6	5213.0	5147.5	5049.3	4985.1	4942.3	4941.1	4924.7
5°	5379.2	5312.4	5138.7	4932.3	4744.7	4576.0	4377.1	4219.7	4102.7	4083.8	4043.5
7.5°	5229.3	5119.8	4852.9	4530.7	4216.0	3896.2	3524.8	3294.5	3096.8	3002.4	2992.3
10°	5137.4	4983.9	4604.9	4139.2	3645.7	3125.8	2639.9	2303.7	2060.8	1991.5	1939.9
12.5°	5118.6	4915.9	4413.6	3771.6	3066.6	2379.3	1841.7	1484.2	1290.3	1228.7	1212.3
15°	5137.4	4884.4	4252.5	3407.8	2480.0	1688.1	1236.2	1028.5	955.5	937.9	936.6
17.5°	5148.8	4846.6	4069.9	3003.7	1911.0	1206.0	946.7	886.2	874.9	873.7	876.2
20°	5147.5	4788.7	3852.1	2553.0	1421.3	947.9	856.0	843.4	840.9	842.2	840.9
22.5°	5138.7	4720.8	3613.0	2088.5	1073.8	847.2	817.0	809.5	808.2	808.2	808.2
25°	5155.1	4666.6	3349.9	1644.1	885.0	800.6	781.8	775.5	774.2	774.2	771.7
27.5°	5214.2	4636.4	3061.6	1265.2	799.4	759.1	744.0	742.7	739.0	737.7	740.2
30°	5309.9	4636.4	2745.6	984.4	747.8	716.3	705.0	702.4	701.2	699.9	701.2
32.5°	5478.6	4671.7	2400.7	818.3	698.7	668.5	660.9	664.7	660.9	660.9	660.9
35°	5783.2	4777.4	2039.4	713.8	647.1	621.9	614.3	619.4	616.8	616.8	615.6
37.5°	6227.6	4973.8	1675.6	650.8	601.7	575.3	565.2	572.8	570.3	570.3	569.0
40°	6768.9	5259.6	1329.4	603.0	557.7	530.0	521.2	524.9	518.7	518.7	521.2
42.5°	7437.4	5622.1	1027.2	556.4	513.6	487.2	482.1	478.4	467.0	460.7	462.0
45°	8180.1	5999.8	800.6	511.1	472.1	450.7	443.1	433.1	414.2	401.6	402.8
47.5°	8843.6	6290.6	650.8	467.0	434.3	417.9	406.6	387.7	360.0	344.9	346.2
50°	9192.3	6334.6	553.9	423.0	399.1	382.7	366.3	337.4	304.6	288.3	287.0
52.5°	9281.6	6128.2	482.1	382.7	363.8	344.9	323.5	284.5	248.0	230.4	227.9
55°	9314.4	5813.5	417.9	344.9	326.0	304.6	277.0	232.9	198.9	181.3	180.0
57.5°	9206.1	5343.9	367.6	310.9	288.3	261.8	227.9	186.3	153.6	139.7	139.7
60°	8965.7	4708.2	328.6	274.4	249.3	219.0	183.8	144.8	114.6	103.2	103.2
62.5°	8486.0	3884.9	292.1	236.7	212.7	181.3	148.5	109.5	80.6	74.3	75.5
65°	7580.9	2947.0	255.6	202.7	181.3	149.8	115.8	78.0	54.1	54.1	56.6
67.5°	6182.3	2046.9	217.8	172.5	156.1	122.1	88.1	54.1	37.8	42.8	47.8
70°	4092.6	1148.1	186.3	142.3	133.4	96.9	65.5	36.5	30.2	40.3	49.1
72.5°	1544.6	446.9	156.1	114.6	115.8	74.3	46.6	27.7	27.7	44.1	57.9
75°	430.5	219.0	112.0	84.3	90.6	54.1	34.0	23.9	26.4	50.4	68.0
77.5°	253.0	161.1	73.0	49.1	61.7	37.8	22.7	18.9	22.7	42.8	65.5
80°	203.9	85.6	42.8	25.2	34.0	21.4	15.1	11.3	6.3	16.4	34.0
82.5°	203.9	51.6	20.1	17.6	17.6	11.3	7.6	5.0	1.3	0.0	8.8
85°	137.2	21.4	12.6	11.3	8.8	3.8	2.5	1.3	0.0	0.0	0.0
87.5°	22.7	8.8	5.0	2.5	1.3	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)