

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: P319758

Luminaire Tested: **GAN-SA4B-760-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23053 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 171
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

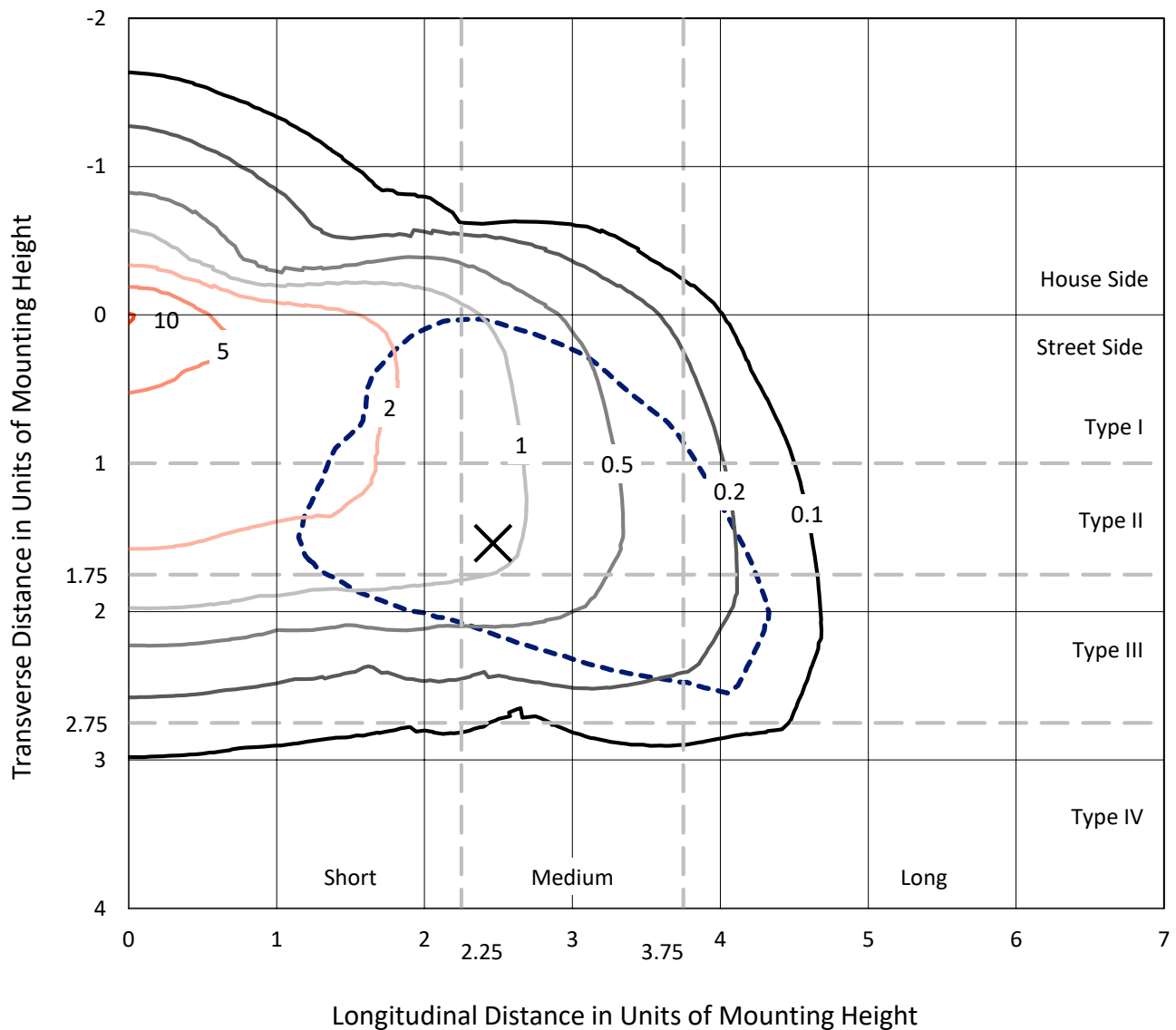


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Iso-Footcandle Lines of Horizontal Illumination

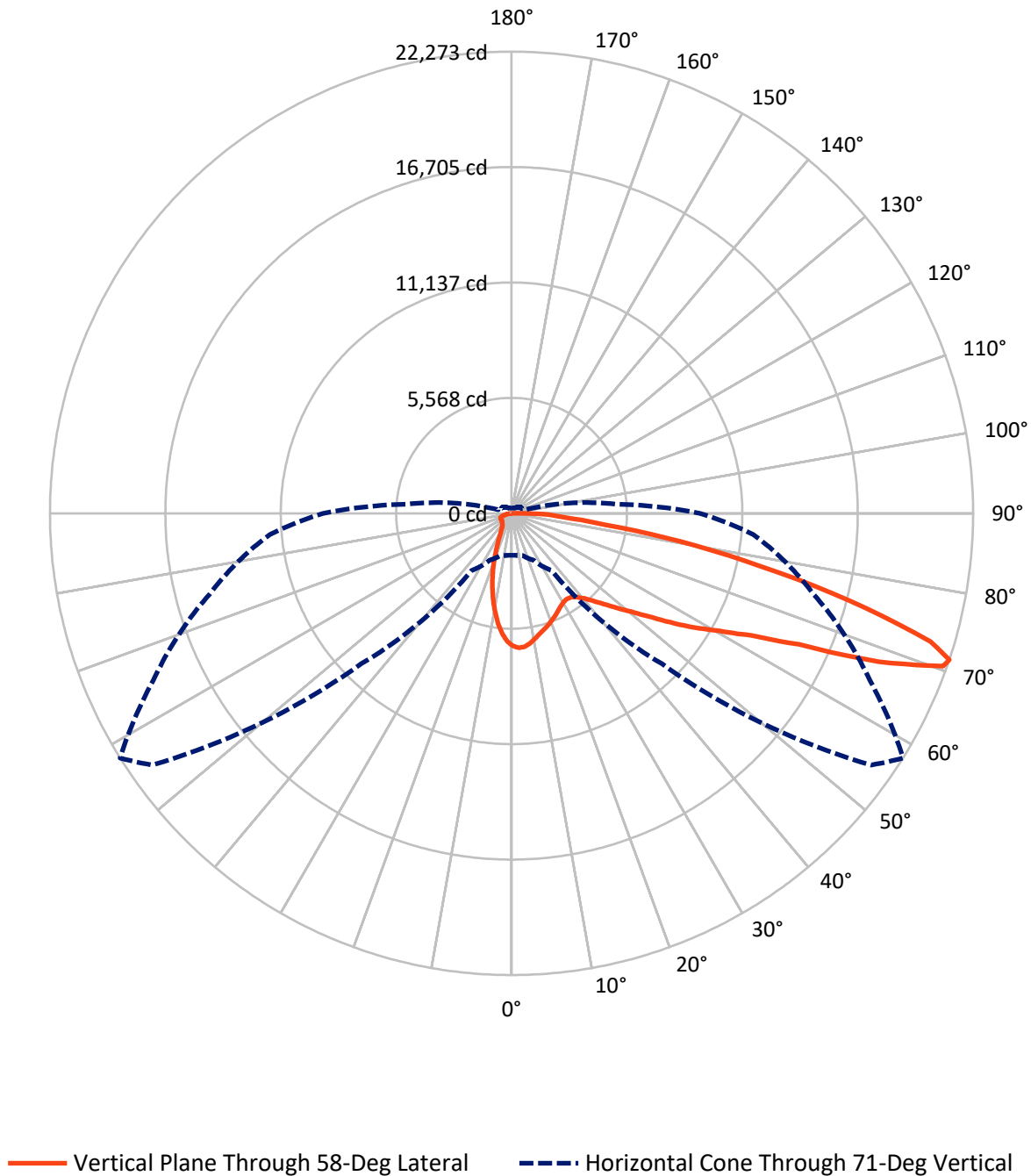
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	3446.6	0.0	3446.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	19606.4	0.0	19606.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	23053.0	0.0	23053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.0	2.4
10°-20°	1225.3	5.3
20°-30°	1557.2	6.8
30°-40°	1983.6	8.6
40°-50°	2812.8	12.2
50°-60°	4352.9	18.9
60°-70°	5925.9	25.7
70°-80°	3953.3	17.1
80°-90°	691.2	3.0
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°	23053.0	100.0
0°-180°	23053.0	100.0

Coefficient of Utilization



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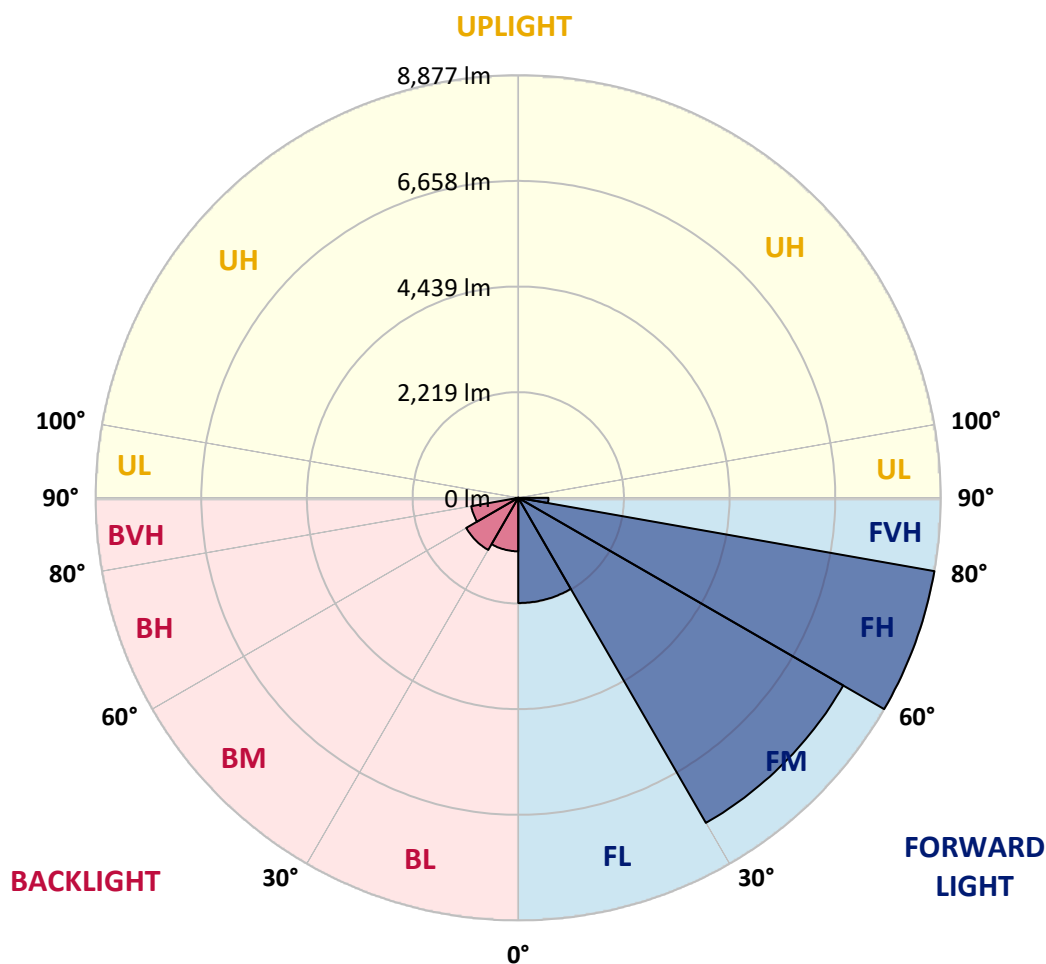
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2210.0	9.6			
FM	(30°-60°)	7885.2	34.2			
FH	(60°-80°)	8877.4	38.5			G4/12000
FVH	(80°-90°)	633.7	2.7			G4/750
BL	(0°-30°)	1123.5	4.9	B3/2500		
BM	(30°-60°)	1264.0	5.5	B2/2500		
BH	(60°-80°)	1001.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	57.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2
2.5°	6556.7	6547.8	6551.0	6544.6	6529.4	6514.1	6491.6	6495.6	6464.3	6417.7	6359.9
5°	6433.0	6429.8	6453.9	6467.5	6478.8	6469.9	6463.5	6471.5	6425.8	6361.5	6261.1
7.5°	6173.6	6138.3	6168.8	6214.6	6257.9	6290.9	6334.2	6339.8	6310.9	6243.5	6111.8
10°	5805.0	5771.3	5816.3	5887.7	5974.5	6053.2	6140.7	6156.8	6162.4	6101.3	5941.5
12.5°	5422.8	5397.1	5442.1	5542.4	5686.2	5807.4	5947.2	5971.3	6021.0	5980.1	5784.2
15°	5080.7	5071.1	5125.7	5224.4	5389.9	5575.4	5776.9	5821.1	5905.4	5891.8	5661.3
17.5°	4785.2	4782.8	4824.5	4928.1	5111.2	5345.7	5607.5	5682.2	5807.4	5823.5	5560.1
20°	4565.2	4560.4	4589.3	4665.5	4854.3	5120.1	5424.4	5527.2	5707.9	5764.1	5455.7
22.5°	4447.1	4446.3	4447.1	4483.3	4637.4	4884.8	5246.1	5371.4	5610.7	5716.7	5340.1
25°	4427.0	4424.6	4407.0	4403.0	4490.5	4688.0	5069.5	5207.6	5518.4	5683.8	5230.1
27.5°	4479.2	4482.5	4459.2	4421.4	4439.1	4558.7	4916.1	5063.8	5444.5	5677.4	5153.8
30°	4587.7	4586.0	4566.0	4526.6	4492.1	4510.6	4806.9	4954.6	5394.7	5705.5	5101.6
32.5°	4707.3	4716.1	4712.1	4690.4	4639.0	4565.2	4774.0	4918.5	5380.2	5772.9	5079.1
35°	4851.0	4860.7	4889.6	4906.5	4846.2	4727.4	4844.6	4969.9	5422.0	5899.8	5115.2
37.5°	4987.6	5012.5	5093.6	5165.0	5113.6	4981.1	5032.5	5121.7	5551.3	6099.7	5212.4
40°	5144.9	5166.6	5299.1	5450.9	5442.9	5305.6	5335.3	5394.7	5779.3	6386.4	5388.3
42.5°	5299.9	5343.3	5535.2	5750.4	5812.3	5691.0	5738.4	5769.7	6100.5	6766.2	5695.0
45°	5506.3	5552.9	5819.5	6078.9	6223.4	6155.1	6230.6	6242.7	6504.5	7283.4	6140.7
47.5°	5818.7	5871.7	6182.5	6454.7	6675.5	6682.7	6807.2	6802.4	7008.8	7875.2	6702.0
50°	6305.3	6381.6	6636.2	6890.7	7158.9	7308.3	7474.5	7451.2	7613.4	8505.6	7348.4
52.5°	6942.9	6978.2	7167.0	7354.9	7688.1	8023.0	8261.5	8240.6	8299.2	9153.6	8082.4
55°	7603.8	7630.3	7708.2	7811.0	8259.1	8805.1	9309.4	9276.5	9127.9	9826.6	8807.5
57.5°	8198.0	8251.8	8305.6	8348.2	8834.0	9622.6	10381.4	10383.9	10027.3	10552.5	9556.7
60°	8290.4	8337.8	8693.5	9029.2	9817.7	10713.1	11529.0	11504.9	10958.0	11340.3	10391.9
62.5°	7328.4	7435.2	8029.4	8922.4	10765.3	12707.8	12992.9	12963.2	12071.0	12311.1	11364.3
65°	5251.8	5373.0	6090.1	7432.0	10306.0	14905.7	15634.8	15234.9	13588.7	13505.2	12503.0
67.5°	3029.8	3058.7	3369.5	4447.1	7847.1	15020.5	19665.2	19105.5	15945.6	14859.9	13060.3
70°	2240.4	2239.6	2313.5	2736.7	4246.4	12258.9	21582.0	22083.9	18426.9	15305.6	12272.6
71°	2026.0	2028.4	2111.1	2491.0	3363.0	10261.0	21174.8	22273.4	19080.6	15085.5	11702.4
72.5°	1732.9	1740.9	1855.8	2234.0	2829.0	7076.2	19421.0	21136.3	19390.5	14542.7	10810.3
75°	1314.5	1333.0	1492.0	1883.1	2585.7	3588.7	14253.6	16877.9	17225.6	12832.3	8032.6
77.5°	937.9	958.8	1138.7	1583.6	2458.0	2704.6	9545.5	12311.1	12676.5	8223.7	3623.2
80°	592.6	617.5	753.2	1259.9	2309.5	2568.1	5998.6	8275.1	6912.4	2631.5	921.9
82.5°	347.7	367.0	467.4	823.1	1886.3	2473.3	3529.3	4586.9	2690.1	795.0	419.2
85°	201.6	210.4	291.5	524.4	1370.0	2334.4	2593.0	2564.0	1167.6	388.7	198.3
87.5°	94.0	104.4	172.6	273.8	760.5	1692.0	2049.3	1770.7	725.9	182.3	93.2
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°	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2	6387.2
2.5°	6331.8	6318.2	6261.1	6210.6	6157.6	6088.5	6012.2	6002.6	5956.0	5964.8	5948.8
5°	6206.5	6172.0	6034.7	5910.2	5763.3	5631.6	5488.6	5422.8	5328.0	5321.6	5297.5
7.5°	6027.5	5963.2	5750.4	5514.3	5278.3	5053.4	4831.0	4684.8	4535.5	4472.0	4466.4
10°	5825.9	5716.7	5403.5	5054.2	4713.7	4385.3	4067.3	3832.0	3620.0	3519.6	3515.6
12.5°	5634.8	5473.4	5043.8	4568.4	4102.6	3677.0	3241.0	2931.8	2666.0	2576.9	2539.1
15°	5472.6	5245.3	4693.7	4085.8	3520.4	2929.4	2433.2	2107.9	1862.2	1777.1	1761.0
17.5°	5315.2	5022.9	4334.7	3598.3	2915.0	2265.3	1768.3	1526.5	1395.6	1361.1	1360.3
20°	5158.6	4794.0	3959.7	3099.7	2329.6	1694.4	1359.5	1251.1	1206.9	1202.9	1196.5
22.5°	4981.1	4551.5	3565.4	2599.4	1818.0	1332.2	1155.5	1112.2	1106.6	1121.0	1121.0
25°	4814.9	4310.6	3165.5	2109.5	1414.1	1111.4	1031.9	1023.0	1038.3	1064.0	1066.4
27.5°	4659.9	4078.5	2775.2	1674.3	1133.1	978.9	946.0	956.4	983.7	1013.4	1014.2
30°	4532.2	3859.3	2396.2	1319.4	957.2	880.1	874.5	895.4	925.1	948.4	954.0
32.5°	4433.5	3672.2	2030.0	1060.8	842.4	806.2	811.1	828.7	847.2	860.0	868.9
35°	4387.7	3511.6	1692.0	894.6	769.3	749.2	755.6	765.3	773.3	782.9	790.2
37.5°	4395.7	3387.1	1390.0	791.0	720.3	709.9	709.9	709.9	709.9	714.7	715.5
40°	4470.4	3315.7	1144.3	725.1	687.4	676.1	667.3	659.3	652.9	656.1	654.5
42.5°	4661.5	3309.2	964.4	683.4	660.9	642.4	624.7	613.5	605.5	608.7	610.3
45°	4986.0	3389.5	843.2	653.7	636.0	607.9	585.4	573.4	567.7	578.2	579.8
47.5°	5405.9	3564.6	769.3	632.0	612.7	575.8	551.7	540.4	542.0	557.3	561.3
50°	5947.2	3848.9	734.0	618.3	596.6	548.5	523.6	513.9	518.8	540.4	545.3
52.5°	6541.4	4258.4	738.0	614.3	586.2	528.4	501.9	490.6	498.7	518.8	522.8
55°	7227.2	4750.7	804.6	619.9	570.9	515.5	484.2	464.9	471.4	489.8	493.1
57.5°	7989.2	5314.4	938.7	618.3	551.7	503.5	465.8	436.8	441.7	452.9	456.1
60°	8782.6	5995.3	1146.7	623.1	542.8	489.0	440.9	404.7	403.1	412.8	414.4
62.5°	9735.0	6783.1	1384.4	626.4	548.5	470.6	407.9	372.6	367.8	370.2	371.8
65°	10716.3	7353.3	1295.3	613.5	566.1	455.3	379.0	341.3	332.5	330.8	331.6
67.5°	10746.8	6742.2	908.2	587.8	573.4	447.3	357.3	314.8	300.3	294.7	293.9
70°	9637.8	5477.4	707.5	560.5	544.4	434.4	337.3	293.1	271.4	262.6	261.8
71°	9096.6	5042.2	670.5	546.9	522.8	421.6	328.4	283.5	261.0	251.3	249.7
72.5°	8247.8	4520.2	625.6	525.2	481.0	388.7	311.6	269.8	246.5	235.3	232.9
75°	5919.1	2955.9	537.2	468.2	398.3	310.0	273.0	242.5	222.4	208.8	207.2
77.5°	2280.6	1176.4	406.3	389.5	305.1	242.5	224.8	209.6	195.1	181.5	180.7
80°	705.1	526.0	296.3	293.1	220.8	180.7	175.1	171.0	165.4	151.0	147.8
82.5°	376.6	301.9	204.0	189.5	144.5	120.5	126.9	128.5	129.3	114.0	112.4
85°	179.9	159.8	114.8	107.6	84.3	67.5	77.9	84.3	85.1	69.9	65.0
87.5°	85.9	83.5	53.8	41.0	31.3	22.5	27.3	33.7	36.9	26.5	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

(END OF REPORT)