

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: P319538

Luminaire Tested: **GAN-SA4D-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24365 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

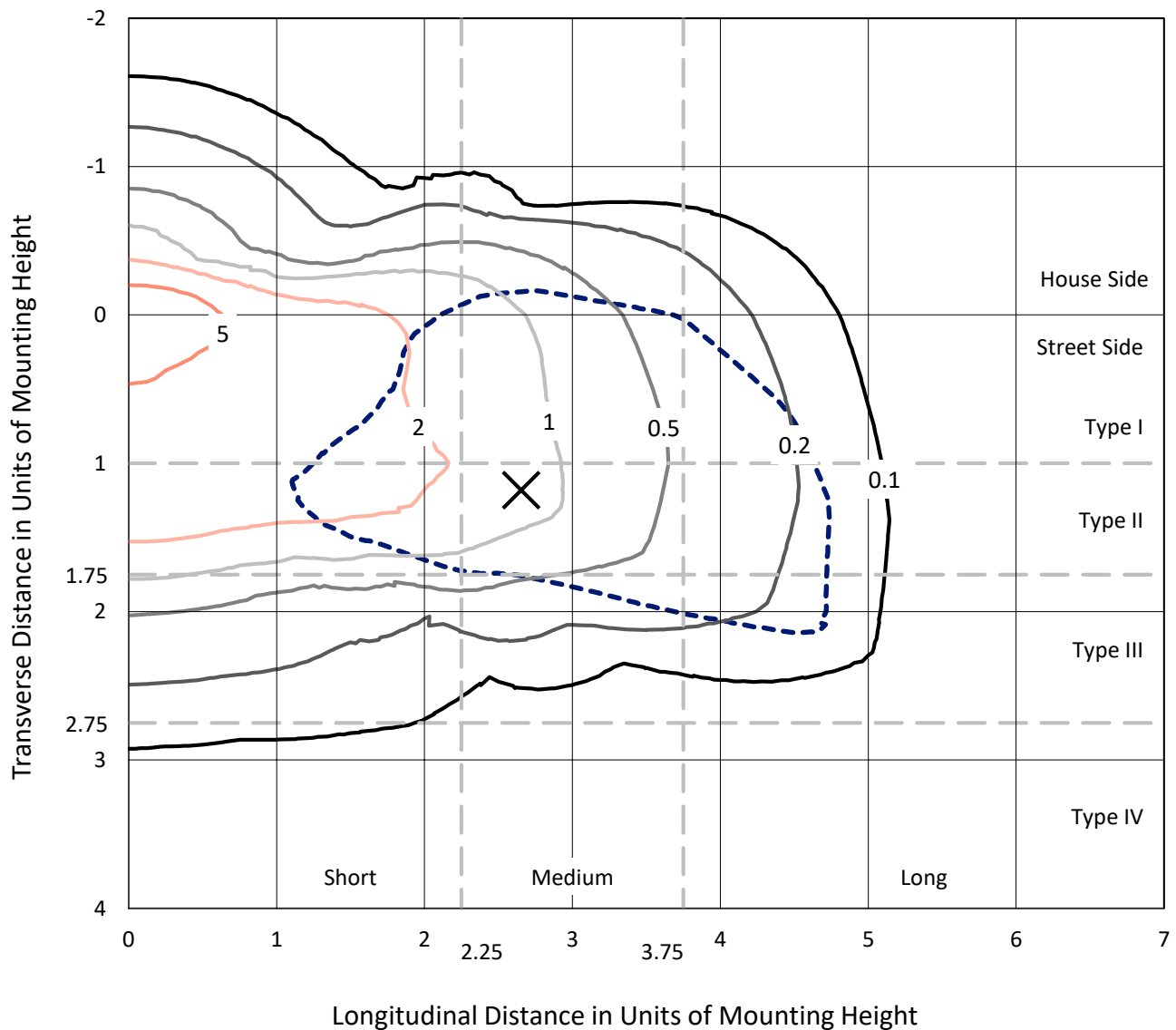
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

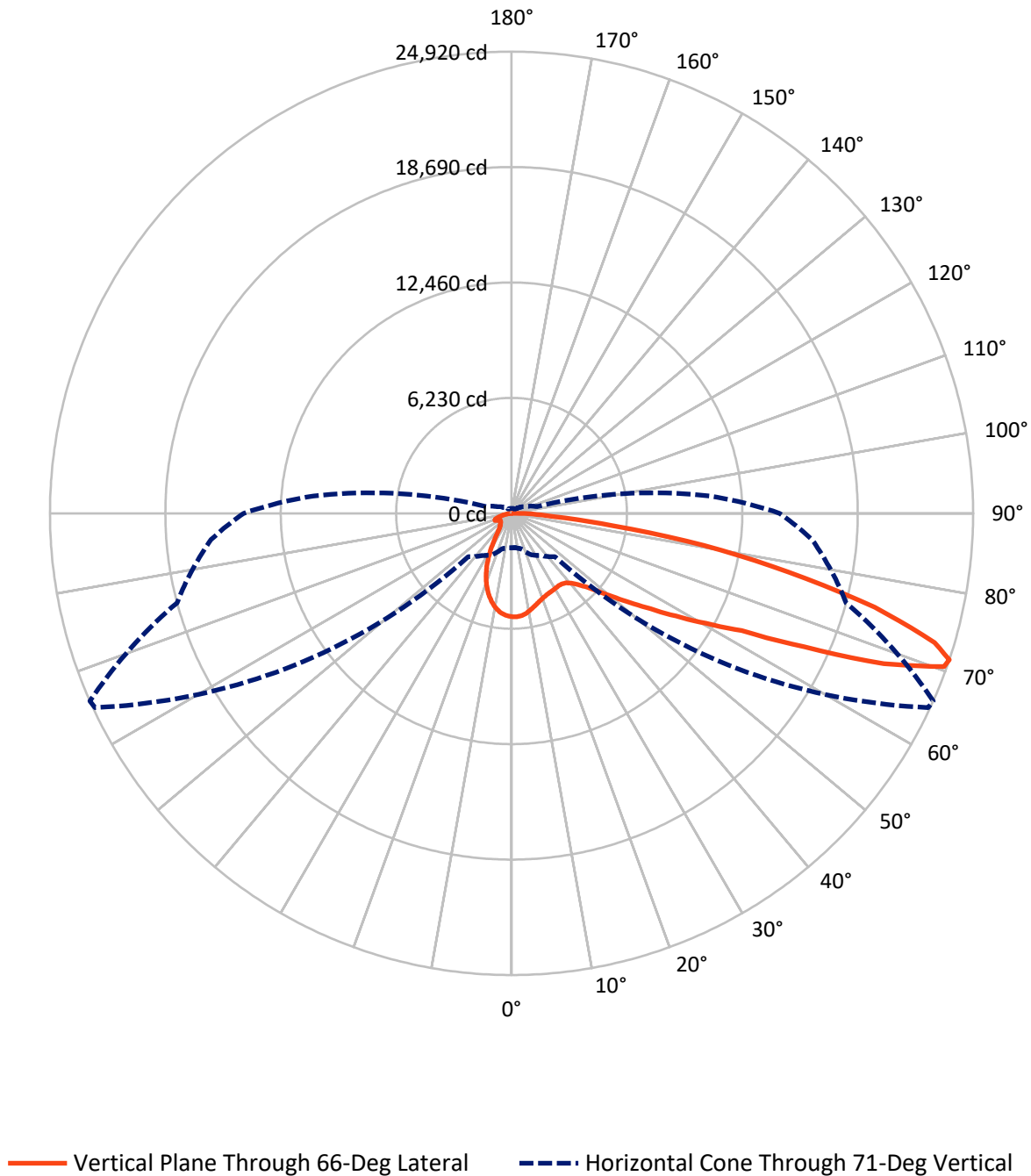
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	4515.5	0.0	4515.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	19849.5	0.0	19849.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	24365.0	0.0	24365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.3	2.0
10°-20°	1178.4	4.8
20°-30°	1582.9	6.5
30°-40°	2082.2	8.5
40°-50°	3029.1	12.4
50°-60°	4731.7	19.4
60°-70°	5927.3	24.3
70°-80°	4521.2	18.6
80°-90°	821.0	3.4
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°	24365.0	100.0
0°-180°	24365.0	100.0

Coefficient of Utilization



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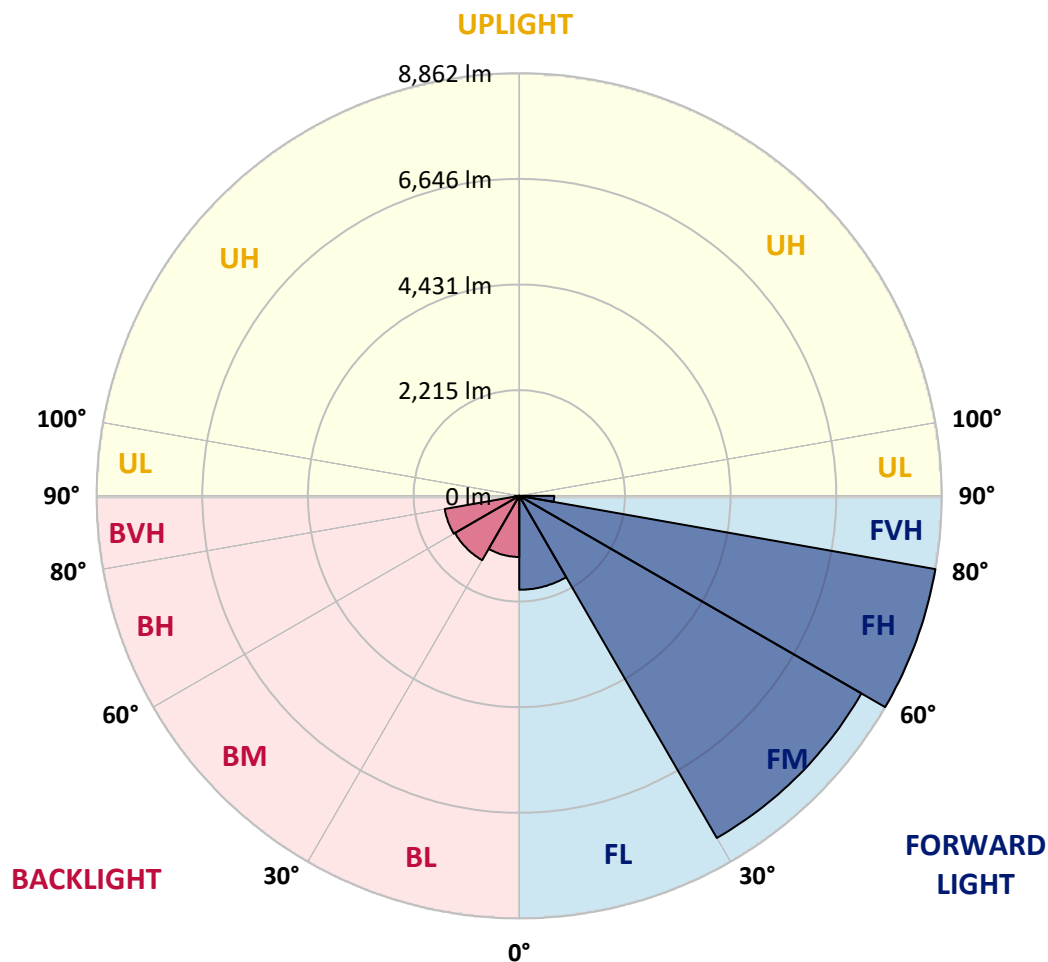
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1970.2	8.1			
FM	(30°-60°)	8285.3	34.0			
FH	(60°-80°)	8861.8	36.4			G4/12000
FVH	(80°-90°)	732.1	3.0			G4/750
BL	(0°-30°)	1282.3	5.3	B3/2500		
BM	(30°-60°)	1557.7	6.4	B2/2500		
BH	(60°-80°)	1586.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	88.9	0.4			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°	65°	66°	75°	85°
0°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5478.1	5469.7	5494.9	5521.0	5531.1	5547.9	5573.1	5587.4	5586.6	5589.1	5580.7
5°	5114.7	5103.7	5154.2	5195.4	5274.5	5363.7	5472.2	5549.6	5551.3	5595.0	5606.8
7.5°	4770.6	4763.0	4821.1	4887.5	4979.2	5115.5	5291.3	5457.9	5468.0	5586.6	5627.8
10°	4494.7	4493.0	4549.4	4621.7	4728.5	4880.8	5082.7	5326.7	5341.8	5546.2	5631.2
12.5°	4279.3	4282.7	4331.5	4413.9	4526.6	4685.6	4904.4	5179.4	5203.8	5482.3	5611.8
15°	4120.3	4133.8	4173.3	4256.6	4367.7	4529.2	4753.8	5043.2	5080.2	5410.8	5600.9
17.5°	4029.5	4044.6	4072.4	4141.4	4245.7	4401.3	4614.1	4931.3	4964.9	5356.1	5601.7
20°	4002.6	4015.2	4031.2	4073.2	4161.6	4302.9	4503.9	4830.3	4866.5	5312.4	5610.2
22.5°	4055.6	4064.8	4066.5	4063.1	4117.0	4232.2	4424.0	4756.3	4795.0	5283.8	5616.0
25°	4169.1	4181.7	4172.5	4141.4	4123.7	4194.4	4382.8	4707.5	4746.2	5262.7	5604.3
27.5°	4339.9	4341.6	4334.0	4293.6	4210.3	4198.6	4370.2	4678.9	4715.9	5238.3	5579.9
30°	4572.1	4583.0	4569.6	4514.9	4378.6	4265.9	4385.3	4651.2	4684.8	5207.2	5540.3
32.5°	4843.8	4870.7	4869.9	4812.7	4617.5	4416.4	4447.6	4634.3	4660.4	5174.4	5492.4
35°	5125.6	5162.6	5231.6	5207.2	4965.8	4654.5	4567.0	4661.2	4678.9	5170.2	5458.7
37.5°	5418.4	5455.4	5597.5	5663.1	5380.5	4995.2	4755.5	4756.3	4764.7	5221.5	5456.2
40°	5724.6	5764.1	5977.8	6148.5	5918.0	5426.8	5059.1	4954.8	4945.6	5347.7	5505.8
42.5°	6153.6	6188.9	6445.5	6663.4	6514.5	5979.5	5478.9	5261.0	5241.7	5595.0	5664.8
45°	6696.2	6726.5	6999.0	7232.0	7155.5	6610.4	6006.4	5682.5	5679.1	6007.2	5987.0
47.5°	7341.4	7365.0	7609.8	7835.2	7863.0	7336.4	6669.3	6332.8	6278.1	6572.5	6485.9
50°	8013.5	8039.6	8206.2	8448.5	8654.6	8308.0	7522.3	7129.4	7056.2	7318.7	7192.5
52.5°	8458.6	8493.0	8637.7	8944.8	9544.6	9373.0	8530.9	8095.1	7984.1	8223.0	8126.3
55°	8260.0	8337.4	8558.7	9050.8	10256.3	10999.9	9775.1	9221.5	9096.2	9294.7	9237.5
57.5°	7357.4	7463.4	7765.4	8525.0	10356.4	12433.4	11656.1	10548.2	10459.8	10402.6	10428.7
60°	5707.7	5809.5	6183.9	7174.0	9659.0	13479.8	14486.8	12183.5	12055.6	11514.7	11538.3
62.5°	4039.6	3988.3	4244.8	4969.1	7848.7	13602.7	17707.9	14370.7	13950.1	12689.1	12585.6
65°	3080.6	3068.8	3184.0	3414.5	4753.8	12133.0	19626.7	18046.9	17389.9	14070.4	13826.4
67.5°	2531.3	2510.2	2623.8	2959.4	3061.2	7827.6	19668.8	22311.9	21666.7	15789.9	15261.6
70°	2081.2	2057.6	2163.6	2596.9	2829.1	3969.8	16553.7	24809.5	24775.0	17967.0	16345.1
71°	1865.8	1849.0	1976.0	2457.2	2779.4	3308.6	14292.5	24816.2	24919.7	18703.9	16281.1
72.5°	1519.3	1525.1	1659.7	2187.2	2742.4	2921.6	10504.4	23659.5	23878.3	19406.3	15699.8
75°	1009.5	1014.5	1191.2	1682.5	2659.1	2858.5	5773.3	19853.0	20255.1	18985.7	14326.1
77.5°	678.0	676.3	796.6	1154.2	2316.7	2858.5	3385.1	14848.5	15290.2	15106.8	11044.5
80°	466.9	463.5	548.5	796.6	1754.0	2893.0	2617.1	10406.0	10539.7	8158.2	4488.8
82.5°	286.0	288.5	358.4	562.8	1193.7	2603.6	2470.7	5674.1	5528.6	2288.1	1121.4
85°	164.0	163.2	228.8	381.1	766.4	2197.3	2409.3	2442.1	2240.2	689.0	405.5
87.5°	58.9	63.1	122.8	211.1	439.1	1530.2	2044.2	1270.3	1144.9	311.3	183.4
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°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5574.8	5579.9	5574.0	5540.3	5511.7	5465.5	5439.4	5403.2	5392.3	5387.2	5400.7
5°	5595.9	5597.5	5547.9	5459.6	5360.3	5243.4	5159.3	5055.8	5007.0	4986.0	4999.4
7.5°	5615.2	5607.6	5499.1	5330.0	5146.6	4943.1	4762.2	4596.5	4499.7	4460.2	4463.6
10°	5617.7	5585.8	5411.6	5150.0	4865.7	4567.0	4289.4	4033.7	3872.2	3767.0	3799.0
12.5°	5591.6	5537.8	5282.9	4917.0	4522.4	4115.3	3740.1	3356.5	3126.0	3019.2	3022.5
15°	5571.5	5473.9	5124.8	4642.7	4112.8	3573.5	3061.2	2610.3	2364.7	2255.3	2204.0
17.5°	5554.6	5404.9	4941.4	4334.0	3629.1	2945.1	2329.4	1927.3	1792.7	1760.7	1747.2
20°	5531.1	5331.7	4737.0	3976.5	3078.1	2241.9	1701.0	1502.4	1503.3	1540.3	1545.3
22.5°	5498.3	5248.4	4519.1	3575.2	2486.7	1632.8	1333.3	1276.1	1334.2	1404.9	1417.5
25°	5449.5	5150.0	4276.8	3131.9	1896.1	1255.1	1139.0	1136.5	1207.2	1281.2	1292.1
27.5°	5380.5	5021.3	4007.6	2655.8	1397.3	1066.7	1020.4	1038.1	1090.2	1144.1	1148.3
30°	5288.0	4871.6	3710.7	2153.5	1095.3	949.7	944.7	960.7	992.6	1030.5	1033.9
32.5°	5186.2	4719.3	3393.5	1667.3	938.0	886.7	891.7	899.3	914.4	929.6	932.9
35°	5093.6	4563.7	3068.8	1266.9	863.1	845.4	842.1	840.4	842.1	837.0	837.9
37.5°	5033.9	4435.0	2730.6	1008.6	820.2	809.3	799.2	786.5	772.2	763.8	765.5
40°	5012.0	4339.1	2388.2	871.5	784.9	777.3	757.9	731.0	714.2	709.2	709.2
42.5°	5070.9	4289.4	2057.6	802.5	755.4	742.8	710.8	679.7	667.1	666.3	665.4
45°	5250.9	4309.6	1743.0	764.7	728.5	704.1	662.0	636.0	627.6	629.2	628.4
47.5°	5574.0	4436.6	1473.8	739.4	701.6	669.6	622.5	601.5	591.4	591.4	592.2
50°	6123.3	4733.6	1259.3	718.4	678.9	637.7	593.9	567.8	554.4	553.5	553.5
52.5°	6923.3	5265.2	1125.6	700.7	653.6	609.0	565.3	532.5	516.5	513.1	511.5
55°	7926.1	6027.4	1088.5	689.0	620.0	577.9	530.8	498.0	480.3	472.8	471.9
57.5°	9047.4	6954.4	1161.7	674.7	585.5	540.9	493.0	461.8	443.3	434.1	433.2
60°	10182.2	7966.4	1460.4	654.5	556.9	500.5	454.3	425.7	407.2	397.1	395.4
62.5°	11318.7	9033.1	2070.3	652.8	536.7	461.8	414.7	390.3	372.7	361.7	359.2
65°	12600.8	10200.7	2763.4	697.4	530.0	426.5	374.3	355.0	339.9	329.8	328.9
67.5°	14072.9	11518.9	2697.0	789.1	552.7	394.5	336.5	321.3	310.4	302.0	301.2
70°	14763.6	11312.8	1676.6	853.8	584.7	363.4	300.3	289.4	281.0	275.1	272.6
71°	14474.2	10741.6	1405.7	846.3	581.3	350.0	286.0	277.6	269.2	264.1	261.6
72.5°	13685.1	9796.1	1172.7	787.4	543.4	325.6	267.5	259.1	251.5	245.6	244.0
75°	12280.3	8748.8	938.8	629.2	433.2	275.1	234.7	225.4	219.6	216.2	212.8
77.5°	9027.2	6243.6	726.0	497.2	318.8	224.6	200.2	193.5	187.6	182.5	180.0
80°	3458.3	2418.5	488.8	371.0	233.9	177.5	161.5	158.2	152.3	148.9	148.9
82.5°	931.2	722.6	260.8	224.6	156.5	129.5	123.7	122.0	116.9	110.2	111.0
85°	376.9	318.8	146.4	123.7	95.9	76.6	83.3	84.1	78.2	69.8	70.7
87.5°	165.7	135.4	81.6	54.7	42.1	29.4	37.9	37.9	34.5	28.6	26.1
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)