

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: P319958

Luminaire Tested: **GAN-SA4B-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19949 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

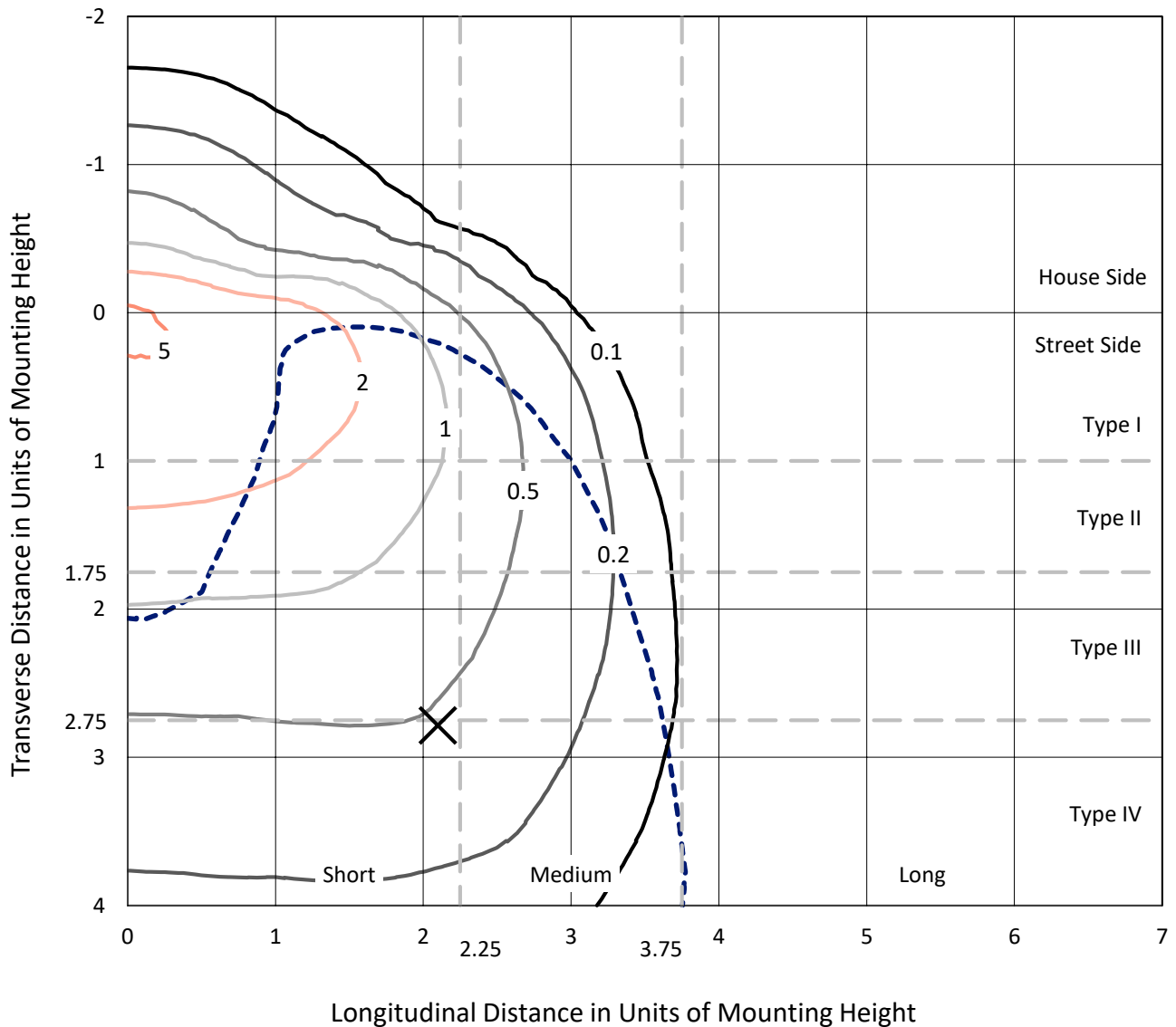
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

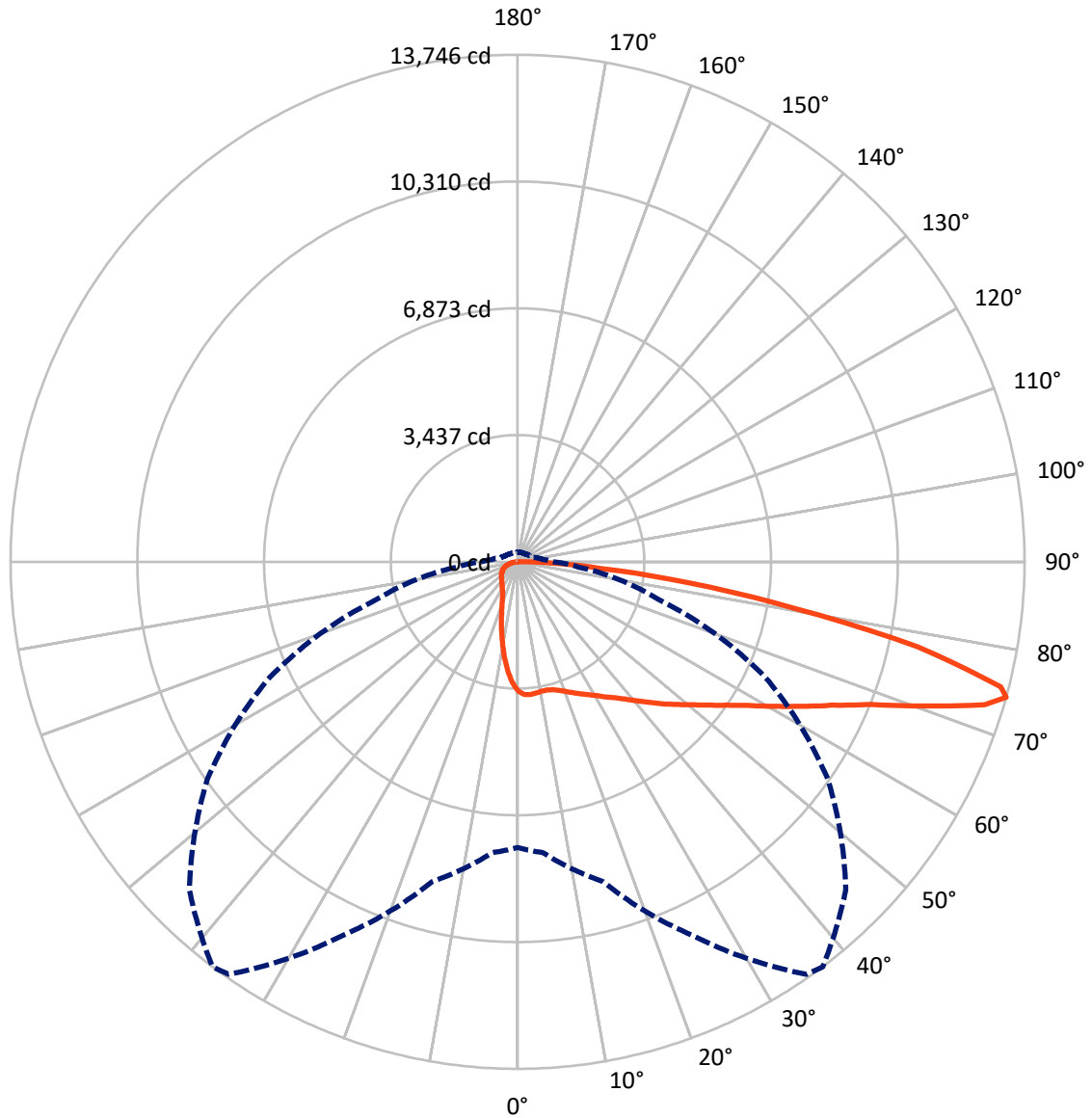
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2744.8	0.0	2744.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	17204.2	0.0	17204.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	19949.0	0.0	19949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.5	1.6
10°-20°	793.4	4.0
20°-30°	1222.5	6.1
30°-40°	1777.7	8.9
40°-50°	2616.4	13.1
50°-60°	3674.3	18.4
60°-70°	4650.5	23.3
70°-80°	4095.0	20.5
80°-90°	809.7	4.1
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°	19949.0	100.0
0°-180°	19949.0	100.0

Coefficient of Utilization

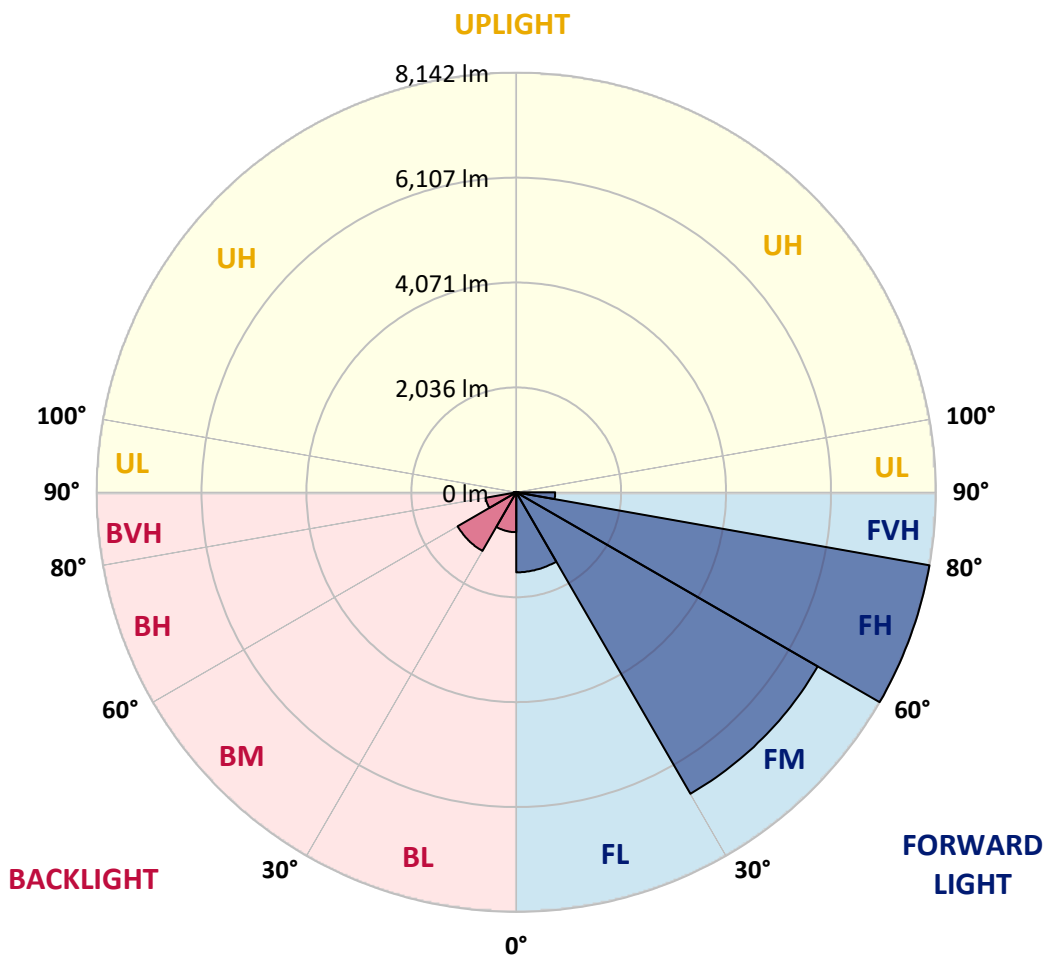


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.3	7.8			
FM (30°-60°)	6754.9	33.9			
FH (60°-80°)	8142.2	40.8			G4/12000
FVH (80°-90°)	754.8	3.8			G5
BL (0°-30°)	773.2	3.9	B2/1000		
BM (30°-60°)	1313.5	6.6	B2/2500		
BH (60°-80°)	603.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	54.8	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9
2.5°	3635.1	3635.8	3635.1	3629.5	3616.1	3604.9	3595.7	3582.4	3552.9	3530.4	3496.7
5°	3669.5	3665.3	3662.5	3652.0	3630.9	3618.2	3600.7	3575.4	3526.9	3481.9	3427.1
7.5°	3653.4	3648.5	3642.1	3629.5	3605.6	3595.0	3570.5	3537.4	3479.1	3420.1	3341.4
10°	3603.5	3602.1	3599.3	3596.5	3576.1	3567.6	3545.2	3510.0	3452.4	3380.7	3288.7
12.5°	3548.0	3551.5	3562.7	3577.5	3568.3	3564.1	3550.1	3526.2	3467.2	3389.9	3278.8
15°	3512.8	3522.7	3552.9	3591.5	3599.3	3597.9	3594.3	3578.9	3516.3	3430.6	3301.3
17.5°	3500.9	3517.0	3574.7	3638.6	3661.1	3666.0	3667.4	3640.7	3571.2	3480.5	3324.5
20°	3522.7	3543.0	3627.4	3715.2	3751.0	3753.9	3747.5	3701.2	3623.2	3523.4	3337.2
22.5°	3588.7	3607.0	3712.4	3811.5	3852.2	3856.5	3837.5	3767.2	3678.0	3574.0	3354.7
25°	3715.9	3738.4	3843.8	3942.9	3964.0	3964.7	3937.3	3850.1	3749.6	3644.9	3392.7
27.5°	3881.7	3904.2	3999.1	4096.1	4084.8	4078.5	4041.3	3954.1	3843.1	3742.6	3460.1
30°	4066.6	4091.2	4181.1	4250.0	4223.3	4210.6	4180.4	4068.0	3973.1	3876.1	3563.4
32.5°	4257.7	4280.2	4358.9	4406.0	4372.2	4366.6	4320.9	4218.3	4142.5	4079.9	3730.7
35°	4453.8	4469.9	4547.2	4573.9	4528.9	4527.5	4514.9	4420.7	4372.9	4402.5	3973.8
37.5°	4654.0	4658.2	4724.3	4725.7	4712.3	4718.0	4731.3	4672.3	4685.6	4777.7	4290.0
40°	4832.5	4843.8	4891.5	4906.3	4929.5	4949.2	5015.9	4977.3	5080.6	5243.6	4683.5
42.5°	4964.6	4986.4	5063.0	5100.9	5176.1	5207.1	5301.2	5337.1	5545.1	5789.6	5151.5
45°	5076.3	5110.1	5233.1	5311.1	5438.2	5492.4	5627.3	5747.4	6070.0	6382.0	5644.1
47.5°	5197.2	5240.1	5394.0	5542.9	5715.8	5776.9	6022.2	6202.1	6630.0	6977.9	6108.6
50°	5375.0	5408.0	5558.4	5792.4	6008.1	6086.8	6426.2	6684.1	7199.2	7545.7	6511.3
52.5°	5623.1	5610.4	5737.6	6065.8	6355.3	6452.2	6857.7	7197.1	7776.1	8059.3	6851.4
55°	5872.5	5851.4	5940.7	6351.8	6760.0	6861.9	7332.7	7712.2	8325.0	8521.7	7112.1
57.5°	6150.1	6110.0	6185.2	6674.3	7221.0	7342.6	7864.7	8259.6	8864.6	8895.6	7277.9
60°	6436.1	6382.0	6466.3	7074.1	7806.4	7949.7	8487.3	8793.7	9373.4	9194.9	7331.3
62.5°	6686.2	6648.3	6778.3	7520.4	8466.2	8623.6	9098.6	9361.5	9875.1	9319.3	7138.8
65°	6904.8	6911.1	7136.0	8022.1	9201.9	9369.9	9799.9	10061.3	10270.1	9245.5	6688.4
67.5°	7165.5	7201.3	7585.0	8682.6	10128.1	10312.2	10820.3	10824.5	10490.7	8812.6	5801.5
70°	7545.7	7619.4	8202.7	9599.0	11445.0	11698.0	12090.1	11272.8	10180.8	7639.1	4564.8
72.5°	7883.0	8020.7	8859.7	10647.4	13050.0	13241.8	12832.8	11014.2	8885.7	5724.9	2843.9
74°	7745.9	7916.7	8979.2	11163.9	13654.3	13746.3	12582.0	10259.5	7408.6	3964.7	1652.8
75°	7450.8	7636.3	8804.9	11159.0	13577.7	13526.4	11976.2	9397.3	6101.6	2704.0	1099.7
77.5°	6013.1	6209.1	7419.2	9563.8	11133.0	11084.5	9199.8	6304.0	2672.4	886.8	558.7
80°	3496.0	3645.6	4605.5	6073.5	7507.0	7594.8	6050.3	3119.3	1051.2	498.2	378.8
82.5°	1553.0	1656.3	2224.8	3100.3	4530.3	4643.5	3168.5	1634.5	649.3	302.9	227.7
85°	1018.9	1095.5	1350.6	1476.4	2157.3	2234.6	1550.9	1272.6	428.7	166.5	167.2
87.5°	732.9	806.7	1003.5	876.3	990.1	937.4	844.0	1177.7	172.2	94.9	56.2
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°	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9
2.5°	3481.9	3470.7	3445.4	3397.6	3370.9	3348.4	3311.2	3289.4	3279.5	3278.8	3283.0
5°	3395.5	3369.5	3304.1	3224.0	3160.1	3101.7	3029.4	2985.8	2954.9	2936.6	2941.5
7.5°	3295.0	3254.2	3151.6	3023.7	2921.1	2808.0	2696.3	2629.5	2577.5	2538.9	2545.9
10°	3226.1	3169.9	3020.2	2836.1	2665.4	2500.9	2347.0	2255.0	2181.9	2125.7	2129.9
12.5°	3202.9	3127.0	2919.7	2673.8	2434.2	2209.3	2008.3	1867.1	1791.9	1728.0	1732.9
15°	3206.4	3104.6	2835.4	2527.6	2226.2	1943.0	1699.1	1534.0	1432.1	1387.8	1388.5
17.5°	3209.3	3078.6	2746.9	2370.9	2020.3	1694.2	1429.3	1262.1	1165.8	1125.0	1125.7
20°	3200.1	3036.4	2637.3	2191.0	1805.3	1465.8	1209.4	1067.4	994.3	962.7	962.7
22.5°	3188.2	2986.5	2513.6	2010.4	1593.0	1267.7	1052.0	943.7	901.6	880.5	879.8
25°	3193.8	2949.3	2387.1	1824.9	1397.7	1109.6	947.2	875.6	847.5	834.1	833.4
27.5°	3224.0	2931.7	2270.4	1640.1	1226.9	990.8	877.0	826.4	808.1	799.7	799.7
30°	3278.8	2931.7	2148.9	1482.7	1085.0	903.0	822.9	788.4	775.8	770.2	770.2
32.5°	3374.4	2947.9	2031.5	1326.7	971.8	834.1	777.9	754.7	744.9	742.1	742.1
35°	3538.8	3002.7	1917.0	1179.1	880.5	777.9	735.0	721.7	714.7	713.9	716.1
37.5°	3770.0	3114.4	1809.5	1070.2	815.8	732.2	699.2	688.7	684.4	687.9	690.8
40°	4060.9	3266.2	1711.8	971.8	766.7	695.7	666.2	659.1	657.0	661.9	666.2
42.5°	4412.3	3471.4	1631.7	900.9	728.7	664.8	638.1	629.6	627.5	633.1	638.8
45°	4792.5	3692.0	1575.5	848.2	699.2	641.6	613.5	604.3	600.1	602.9	609.2
47.5°	5138.2	3900.7	1553.0	810.9	671.1	621.9	591.7	580.4	573.4	572.0	576.9
50°	5429.8	4056.0	1563.5	788.4	648.6	600.1	570.6	557.9	547.4	541.1	544.6
52.5°	5642.0	4153.7	1573.4	778.6	631.0	576.2	547.4	535.5	521.4	510.9	510.9
55°	5795.9	4176.2	1551.6	770.9	617.7	550.2	521.4	510.2	496.1	484.2	482.8
57.5°	5856.4	4112.9	1470.8	759.6	608.5	525.6	494.0	485.6	473.6	459.6	458.9
60°	5774.8	3917.6	1314.8	735.7	596.6	505.2	466.6	461.0	455.4	442.0	441.3
62.5°	5447.4	3488.9	1113.1	687.2	572.7	483.5	441.3	444.1	444.8	435.7	434.3
65°	4853.6	2900.1	916.3	624.0	536.9	457.5	415.3	428.7	436.4	435.0	432.9
67.5°	3990.7	2257.1	776.5	557.2	489.8	421.6	387.2	402.7	409.0	413.9	412.5
70°	2961.9	1591.6	642.3	487.0	432.9	379.5	350.7	358.4	354.2	359.8	361.9
72.5°	1651.4	955.0	523.5	416.7	373.8	330.3	309.9	308.5	299.4	299.4	299.4
74°	990.8	700.6	460.3	373.1	338.0	297.9	280.4	274.1	265.6	266.3	265.6
75°	796.9	602.2	422.3	344.3	312.7	279.0	261.4	253.0	246.6	246.6	245.9
77.5°	503.1	457.5	340.1	274.1	250.2	229.8	217.8	206.6	206.6	205.9	205.2
80°	380.2	364.0	264.9	207.3	191.8	176.4	168.6	163.7	163.7	165.8	165.1
82.5°	260.7	274.1	186.2	144.8	137.0	125.8	124.4	125.1	123.0	120.2	119.5
85°	190.4	205.9	125.8	91.4	83.6	76.6	82.2	85.0	81.5	75.2	72.4
87.5°	73.1	134.9	67.5	37.9	35.1	30.2	35.1	36.5	39.4	30.9	31.6
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)