

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: P317748

Luminaire Tested: **GAN-SA4A-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19220 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

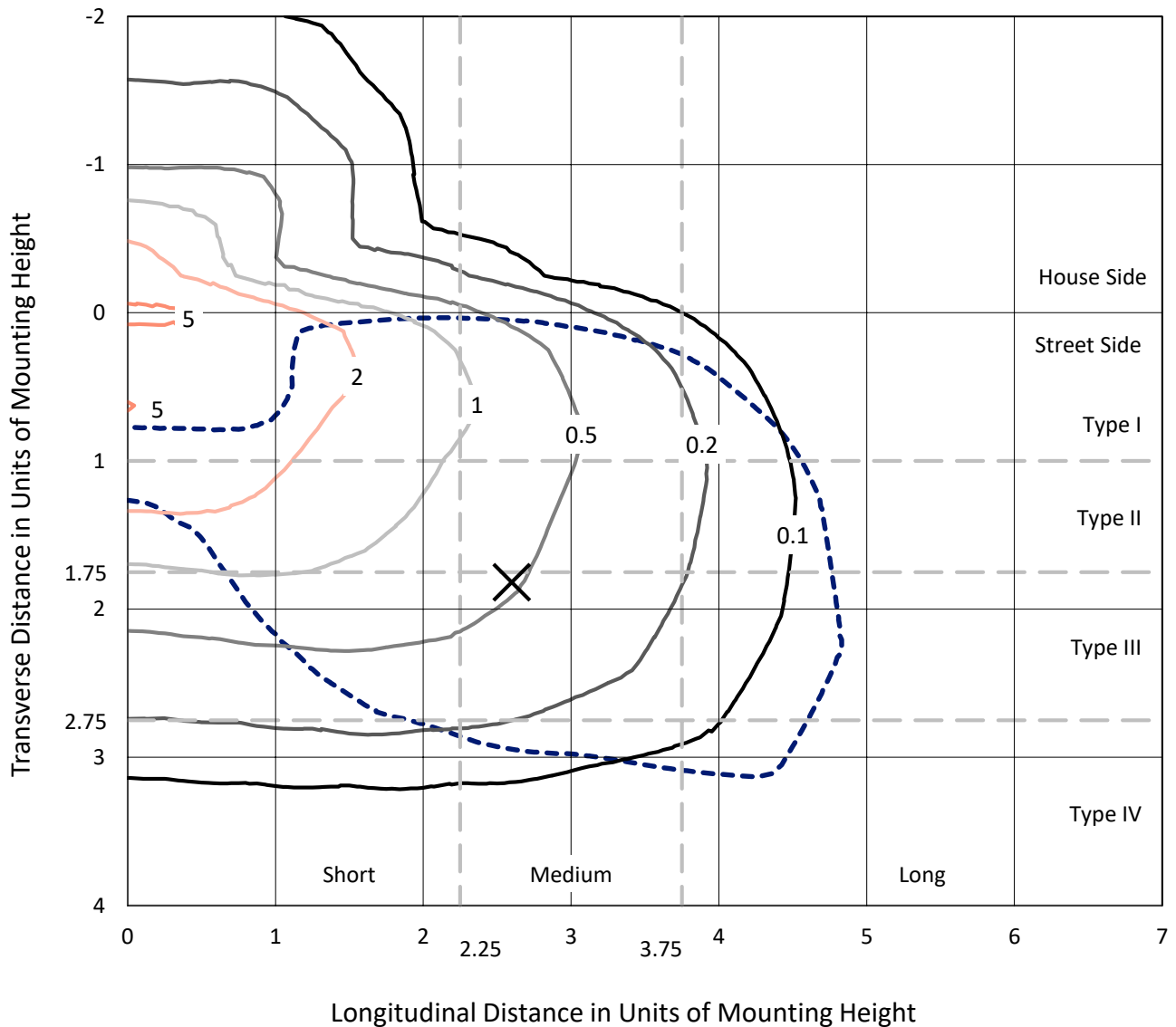
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

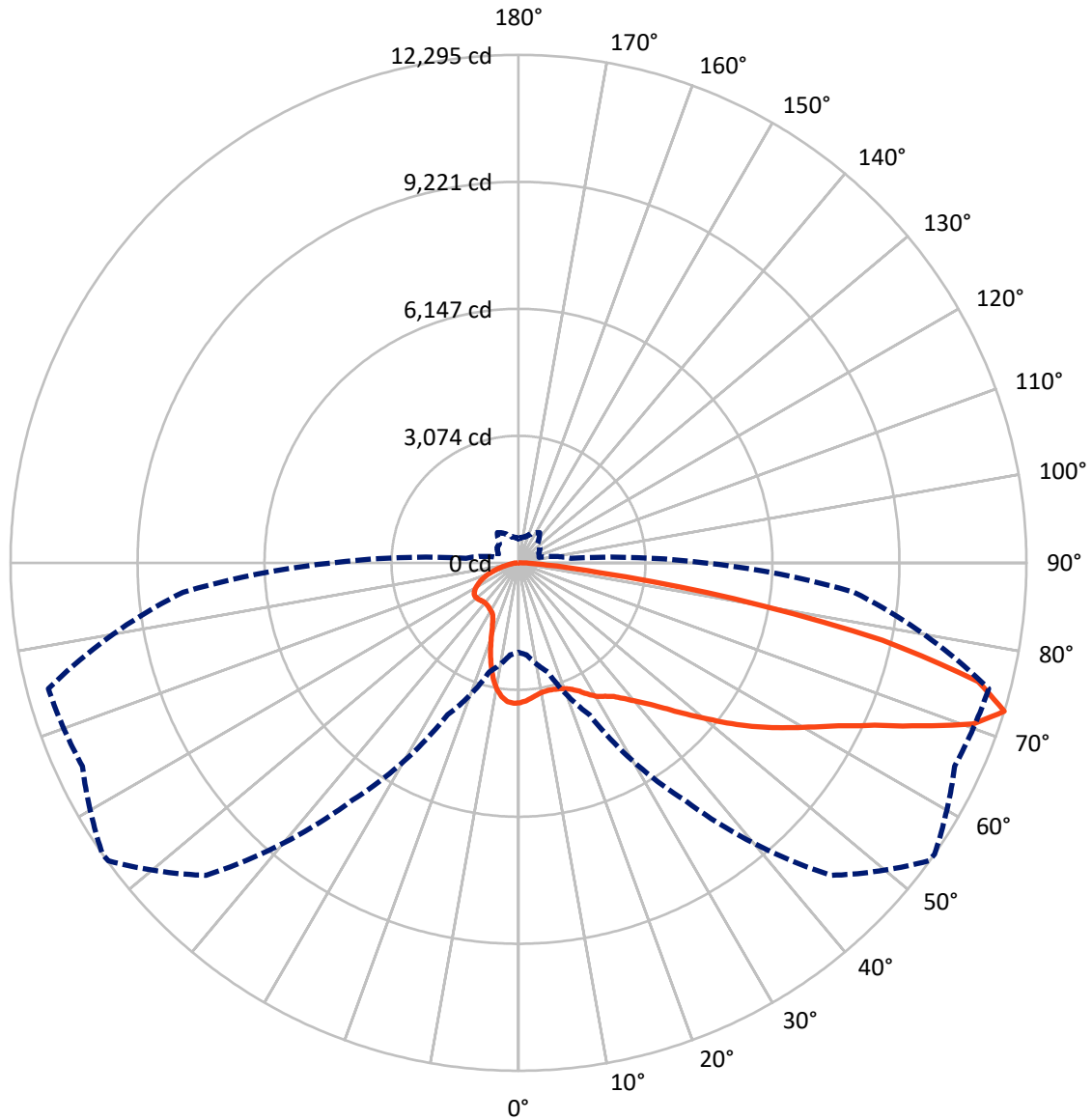
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3572.4	0.0	3572.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15647.6	0.0	15647.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	19220.0	0.0	19220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	1.6
10°-20°	816.7	4.2
20°-30°	1346.5	7.0
30°-40°	1991.8	10.4
40°-50°	2780.2	14.5
50°-60°	3619.9	18.8
60°-70°	4448.8	23.1
70°-80°	3487.3	18.1
80°-90°	422.0	2.2
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°	19220.0	100.0
0°-180°	19220.0	100.0

Coefficient of Utilization

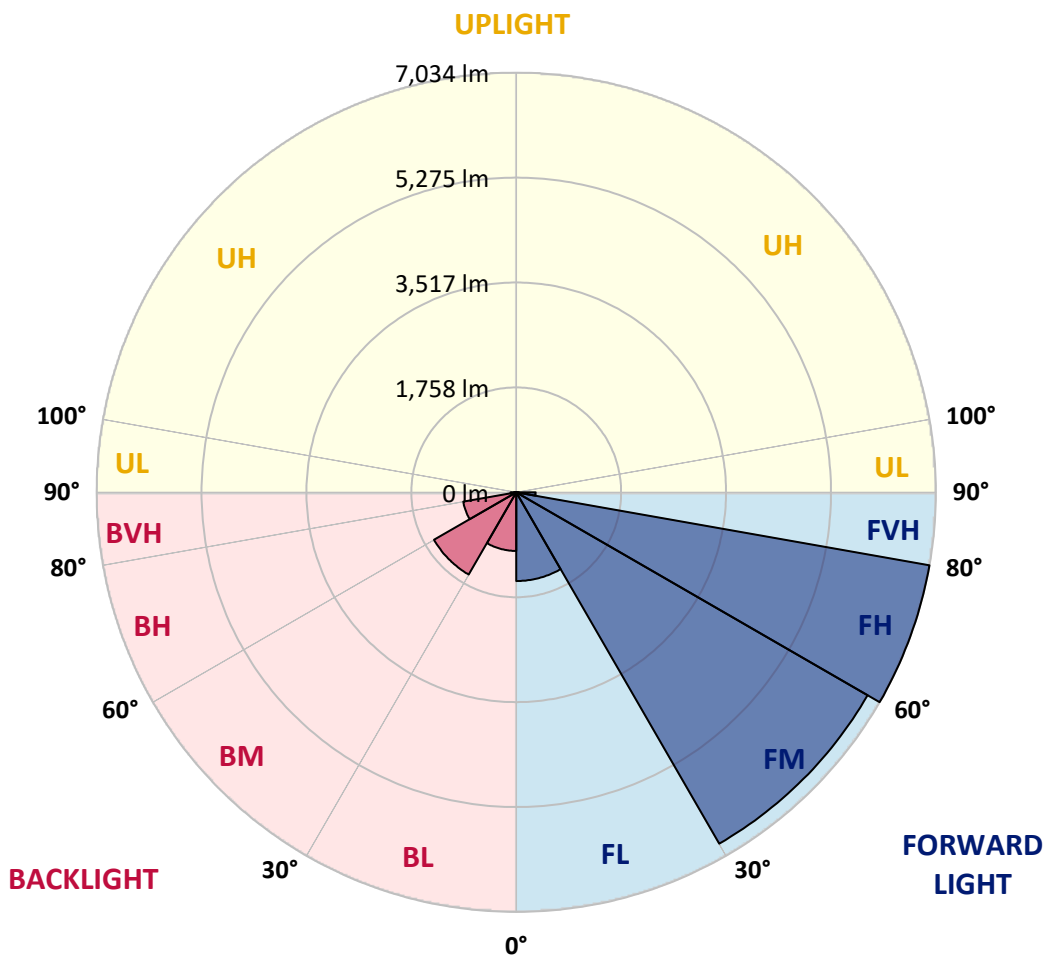


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.1	7.7			
FM (30°-60°)	6800.4	35.4			
FH (60°-80°)	7033.9	36.6			G3/7500
FVH (80°-90°)	326.3	1.7			G3/500
BL (0°-30°)	982.9	5.1	B2/1000		
BM (30°-60°)	1591.5	8.3	B2/2500		
BH (60°-80°)	902.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	95.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0
2.5°	3279.6	3271.8	3281.6	3295.2	3310.1	3330.3	3342.0	3347.1	3367.3	3375.1	3391.9
5°	3127.7	3123.8	3140.1	3163.4	3196.5	3243.3	3280.9	3288.1	3341.3	3379.0	3413.4
7.5°	3017.4	3017.4	3036.2	3064.1	3101.1	3164.1	3217.3	3227.1	3317.3	3398.4	3462.1
10°	2929.7	2933.0	2955.0	2988.2	3031.6	3098.5	3169.3	3180.3	3310.8	3443.9	3545.1
12.5°	2871.3	2879.1	2899.2	2929.1	2983.0	3064.1	3153.7	3168.6	3324.4	3508.8	3645.1
15°	2908.3	2921.3	2923.2	2935.6	2965.4	3053.7	3162.8	3178.4	3353.6	3575.0	3758.7
17.5°	3070.6	3075.1	3055.0	3029.1	3014.8	3071.2	3190.0	3206.3	3388.7	3640.6	3867.8
20°	3317.3	3314.7	3271.2	3201.1	3128.4	3137.5	3234.8	3251.7	3436.1	3698.4	3976.8
22.5°	3628.9	3619.8	3552.9	3423.8	3299.8	3247.8	3313.4	3327.7	3507.5	3780.8	4093.7
25°	4006.7	3986.6	3898.3	3725.0	3542.6	3408.8	3431.5	3445.2	3611.4	3873.0	4200.8
27.5°	4405.3	4385.2	4272.9	4063.2	3820.4	3612.0	3594.5	3606.2	3729.5	3941.1	4280.0
30°	4822.1	4800.7	4698.1	4463.1	4115.1	3822.3	3746.4	3750.9	3812.6	3978.1	4344.9
32.5°	5240.8	5220.7	5105.8	4833.1	4435.2	4048.3	3856.1	3850.3	3862.6	4016.4	4418.3
35°	5665.4	5673.1	5538.8	5236.9	4789.6	4299.5	3985.9	3973.6	3946.3	4095.0	4522.2
37.5°	6119.8	6114.6	5940.6	5625.1	5160.3	4572.1	4172.3	4170.3	4076.2	4243.7	4685.1
40°	6423.6	6426.8	6321.0	6022.4	5534.9	4874.0	4411.1	4406.6	4283.3	4466.3	4898.7
42.5°	6542.4	6563.8	6591.1	6401.5	5927.0	5223.9	4696.1	4689.6	4572.1	4785.7	5149.9
45°	6550.8	6593.7	6762.5	6738.4	6324.3	5624.5	5060.3	5042.1	4957.8	5210.3	5449.8
47.5°	6478.1	6522.3	6802.7	6939.0	6679.4	6047.1	5486.2	5471.9	5399.2	5741.3	5774.4
50°	6319.1	6361.3	6719.6	7037.1	6971.5	6453.5	5977.0	5939.3	5900.4	6354.8	6145.7
52.5°	6021.1	6102.2	6608.6	7060.4	7146.1	6814.4	6493.1	6468.4	6489.8	7002.0	6517.7
55°	5315.4	5406.3	6322.3	7041.0	7275.3	7117.6	7009.1	7007.8	7118.9	7681.0	6917.0
57.5°	4920.1	4984.4	5739.4	7007.8	7428.5	7418.8	7520.0	7532.4	7748.6	8420.5	7335.0
60°	4696.8	4764.3	5444.0	6885.2	7666.1	7808.3	8041.3	8066.0	8388.6	9239.1	7838.1
62.5°	4493.6	4567.6	5260.9	6635.2	7945.9	8365.3	8665.8	8687.9	9066.4	10080.4	8324.4
65°	4146.3	4230.0	4992.8	6471.0	8200.4	9091.7	9459.8	9474.7	9844.7	10962.0	8696.4
67.5°	3655.5	3732.1	4487.1	6108.1	8388.6	9973.9	10515.3	10523.8	10616.6	11584.5	8886.6
70°	3082.3	3111.5	3766.5	5358.9	8166.0	10799.0	11672.2	11674.1	11320.3	11983.1	8855.4
72.5°	2165.6	2234.5	2734.3	4056.7	7017.6	10698.4	12272.7	12294.7	11647.5	11781.9	8147.8
75°	1328.2	1400.9	1715.1	2458.4	4452.0	8414.0	11339.1	11492.4	11034.0	10505.0	6656.0
77.5°	888.1	915.3	1119.2	1433.4	2017.0	4840.9	8717.8	9006.0	9166.4	7660.9	4256.6
80°	495.3	547.3	742.0	890.7	897.2	1923.5	5227.2	5294.7	5099.9	3050.5	1313.3
82.5°	262.3	290.8	495.3	523.2	489.5	644.0	1948.2	1950.1	1629.4	818.0	390.2
85°	203.2	227.2	339.5	319.4	249.9	285.6	642.7	677.7	554.4	335.0	127.2
87.5°	101.3	125.9	230.5	202.5	98.0	81.8	229.8	245.4	218.8	131.1	46.1
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°	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0	3390.0
2.5°	3398.4	3404.3	3411.4	3403.6	3401.0	3390.6	3373.1	3369.2	3360.1	3360.8	3366.0
5°	3428.3	3438.0	3434.1	3404.3	3368.6	3318.6	3266.7	3222.5	3193.3	3191.3	3189.4
7.5°	3485.4	3491.9	3461.4	3376.4	3276.4	3160.8	3051.8	2956.3	2898.6	2884.3	2881.0
10°	3575.0	3573.7	3490.0	3318.6	3119.3	2912.9	2737.6	2605.1	2527.9	2505.2	2499.3
12.5°	3675.0	3660.1	3499.7	3213.4	2897.3	2611.0	2389.0	2241.6	2161.1	2135.1	2128.6
15°	3778.2	3741.2	3475.7	3056.3	2624.6	2285.7	2052.7	1916.4	1872.9	1858.6	1856.0
17.5°	3874.3	3802.9	3406.9	2843.4	2313.7	1961.8	1780.0	1725.5	1735.9	1754.7	1755.4
20°	3968.4	3844.4	3296.5	2574.6	1985.8	1695.0	1633.3	1673.6	1722.9	1761.2	1766.4
22.5°	4061.2	3873.6	3154.3	2264.3	1692.4	1545.0	1588.5	1661.9	1718.4	1759.9	1767.1
25°	4139.1	3880.8	2958.3	1933.2	1488.6	1488.6	1567.1	1636.6	1692.4	1733.3	1740.4
27.5°	4167.7	3832.7	2681.7	1626.8	1386.0	1462.6	1537.2	1595.0	1642.4	1685.9	1693.7
30°	4178.7	3743.8	2362.3	1380.8	1343.8	1434.7	1497.0	1546.3	1591.1	1632.0	1639.2
32.5°	4180.7	3636.7	2023.5	1241.2	1314.6	1405.5	1447.0	1490.5	1538.5	1554.8	1557.4
35°	4193.0	3510.1	1666.4	1169.8	1287.3	1378.2	1411.3	1442.5	1364.6	1370.4	1375.6
37.5°	4228.7	3384.8	1367.8	1129.6	1269.8	1363.9	1403.5	1290.6	1229.5	1215.3	1213.3
40°	4295.6	3251.1	1146.4	1097.1	1263.3	1371.1	1353.5	1204.9	1099.7	1021.2	1009.5
42.5°	4388.4	3107.0	1004.9	1075.7	1267.8	1405.5	1284.1	1122.4	947.8	897.2	890.7
45°	4492.9	2955.7	928.3	1060.8	1283.4	1432.1	1269.8	1012.7	877.0	838.7	835.5
47.5°	4594.2	2770.7	888.7	1054.3	1304.8	1410.7	1209.4	979.0	843.3	823.2	825.1
50°	4710.4	2603.8	864.7	1047.1	1323.7	1397.0	1141.3	961.4	830.3	855.0	880.9
52.5°	4808.4	2431.2	843.3	1032.8	1330.8	1373.0	1123.7	964.7	830.3	877.7	902.4
55°	4924.6	2300.7	818.6	1003.0	1317.2	1304.8	1111.4	984.2	840.0	810.2	812.8
57.5°	5074.6	2257.8	791.3	956.2	1271.7	1205.5	1105.5	1003.0	834.2	815.4	821.9
60°	5282.3	2303.3	780.3	895.2	1201.0	1127.6	1106.2	993.2	793.3	760.8	761.5
62.5°	5480.3	2353.9	779.7	856.9	1114.0	1058.2	1091.3	961.4	772.5	753.7	760.8
65°	5545.3	2302.6	748.5	814.1	1016.0	975.1	1064.0	927.7	756.9	728.4	727.1
67.5°	5458.3	2143.6	685.5	744.6	903.7	878.3	1028.3	887.4	732.3	708.9	705.0
70°	5199.9	1788.5	607.6	653.1	775.8	769.3	971.8	840.7	699.2	679.0	662.2
72.5°	4504.6	1274.3	512.2	543.4	631.6	652.4	893.9	779.7	652.4	608.9	583.0
75°	3699.7	943.3	420.7	427.2	479.7	536.2	786.8	708.3	597.2	523.2	503.1
77.5°	2265.6	577.1	335.0	337.6	344.1	427.8	647.9	628.4	527.1	436.2	422.0
80°	733.6	314.9	242.1	254.5	235.0	313.6	501.2	534.9	452.5	364.8	349.3
82.5°	279.1	183.7	163.6	172.0	162.9	210.3	365.5	428.5	370.7	299.9	244.1
85°	135.0	103.9	96.7	108.4	100.6	107.8	233.7	315.5	281.1	195.4	181.8
87.5°	48.0	46.1	37.0	50.0	42.8	38.3	71.4	159.0	185.7	134.4	120.1
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)