

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: P268717

Luminaire Tested: **GAN-AF-07-LED-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T4W-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36323.7 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

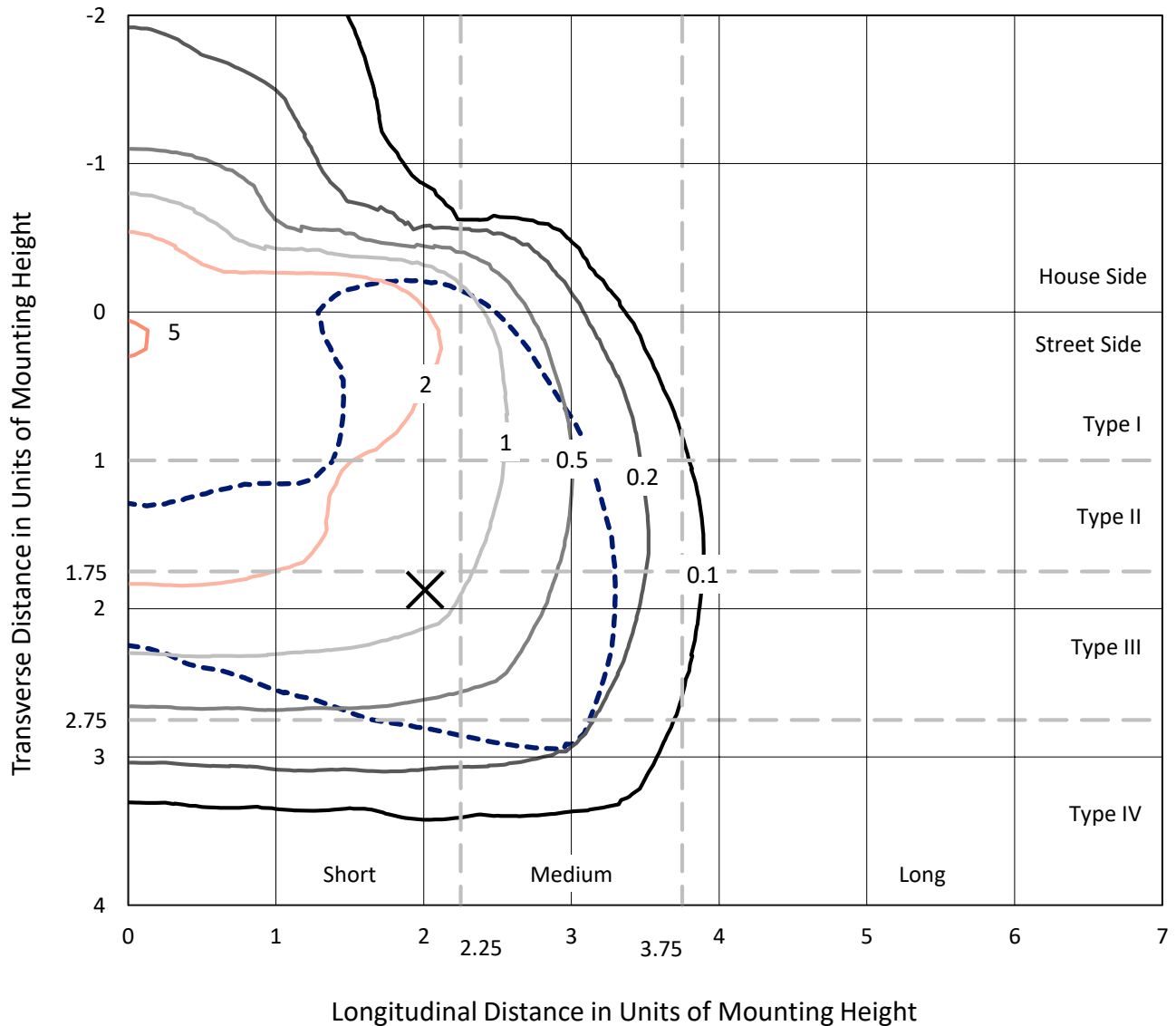
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

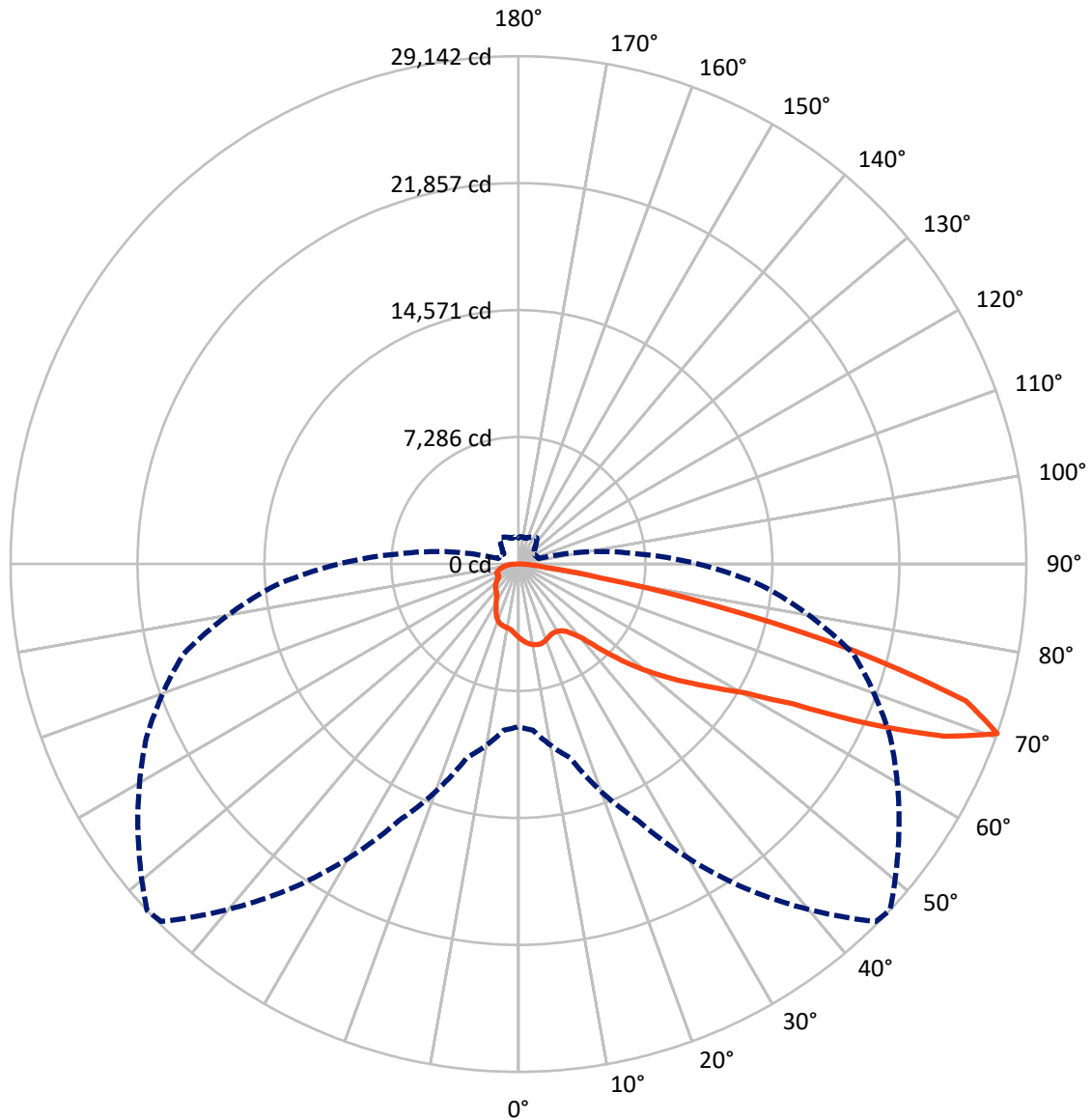
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7577.8	0.0	7577.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	28745.8	0.0	28745.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	36323.7	0.0	36323.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.8	1.1
10°-20°	1184.8	3.3
20°-30°	1749.6	4.8
30°-40°	2542.9	7.0
40°-50°	4576.4	12.6
50°-60°	7928.2	21.8
60°-70°	11315.8	31.2
70°-80°	5808.9	16.0
80°-90°	813.3	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°	36323.7	100.0
0°-180°	36323.7	100.0

Coefficient of Utilization



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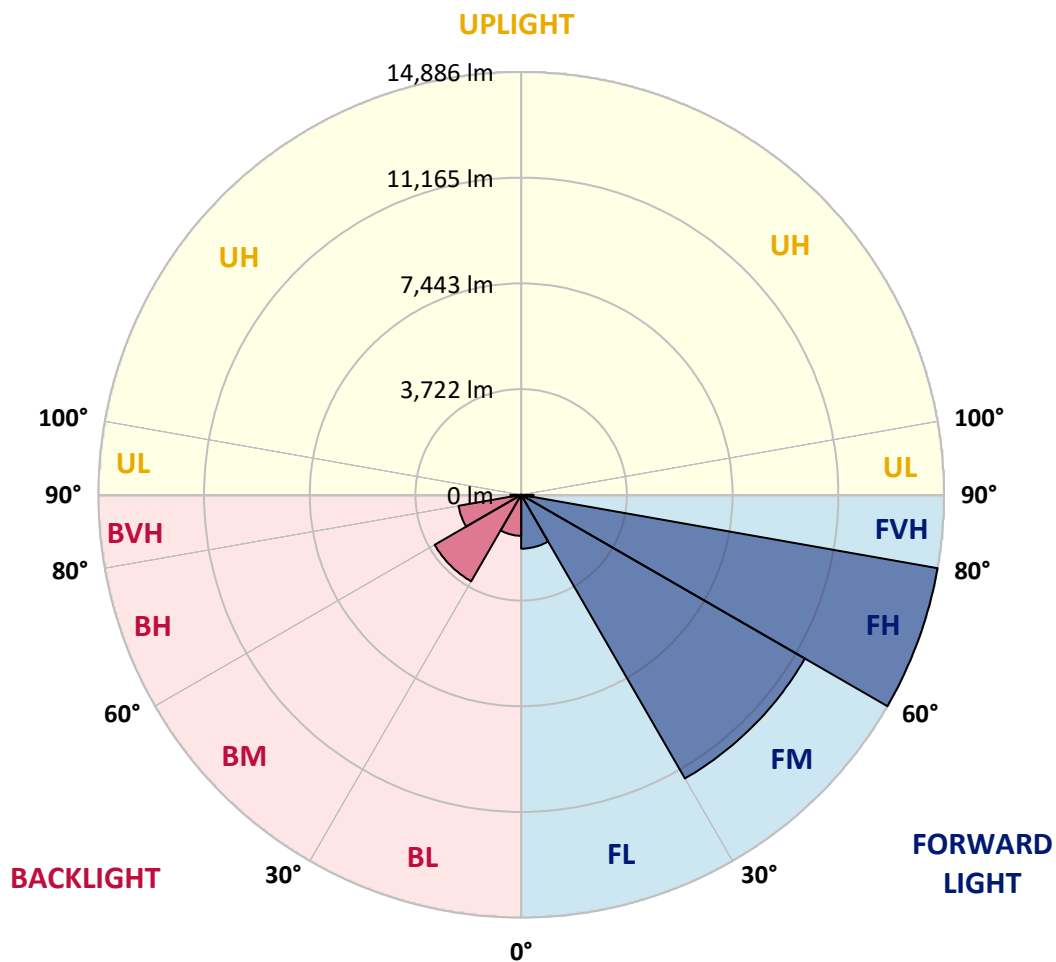
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1895.3	5.2			
FM	(30°-60°)	11530.1	31.7			
FH	(60°-80°)	14886.4	41.0			G5
FVH	(80°-90°)	434.0	1.2			G3/500
BL	(0°-30°)	1442.9	4.0	B3/2500		
BM	(30°-60°)	3517.4	9.7	B3/5000		
BH	(60°-80°)	2238.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	379.3	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7
2.5°	4462.2	4453.3	4449.8	4442.7	4433.9	4389.6	4380.8	4349.0	4304.8	4258.9	4211.2
5°	4755.4	4753.7	4734.2	4698.9	4642.4	4545.2	4522.2	4444.5	4340.2	4239.5	4138.8
7.5°	5013.4	4997.5	4960.4	4889.7	4790.8	4658.3	4626.5	4518.7	4375.5	4237.7	4101.7
10°	5202.5	5193.7	5112.4	5015.1	4886.2	4739.5	4702.4	4582.3	4425.1	4250.1	4080.5
12.5°	5310.3	5292.6	5199.0	5082.3	4928.6	4785.5	4748.4	4626.5	4449.8	4250.1	4050.3
15°	5303.2	5290.8	5197.2	5069.9	4914.4	4789.0	4755.4	4633.5	4444.5	4232.4	4011.4
17.5°	5161.9	5167.2	5087.6	4962.1	4834.9	4739.5	4709.5	4596.4	4409.2	4197.1	3965.5
20°	4914.4	4939.2	4886.2	4774.9	4704.2	4638.8	4619.4	4524.0	4354.3	4145.8	3916.0
22.5°	4667.1	4690.1	4668.9	4575.2	4564.6	4525.8	4515.2	4446.3	4306.6	4114.0	3886.0
25°	4485.1	4506.3	4502.8	4421.5	4453.3	4451.6	4442.7	4409.2	4296.0	4114.0	3891.3
27.5°	4435.7	4442.7	4435.7	4361.4	4405.6	4441.0	4433.9	4428.6	4327.8	4165.3	3958.4
30°	4605.3	4594.7	4539.9	4389.6	4430.4	4479.8	4472.8	4476.3	4423.3	4299.5	4108.7
32.5°	5282.0	5234.3	5061.1	4638.8	4531.1	4557.6	4561.1	4619.4	4628.2	4506.3	4341.9
35°	6294.7	6241.7	6017.1	5306.7	4843.8	4751.9	4751.9	4840.2	4893.2	4803.1	4704.2
37.5°	7367.3	7309.0	7188.7	6232.8	5501.2	5089.3	5080.5	5142.4	5218.4	5239.6	5264.3
40°	8586.5	8524.7	8558.3	7271.9	6418.3	5674.4	5548.9	5504.8	5709.6	5845.8	6043.6
42.5°	9920.8	9892.6	9904.9	8429.3	7462.7	6549.2	6370.6	6142.6	6390.1	6632.1	7047.5
45°	11156.1	11180.8	11168.4	9668.1	8625.4	7616.5	7427.4	6985.6	7227.8	7643.0	8319.8
47.5°	12237.6	12135.1	12294.2	11021.8	9927.9	8811.0	8577.7	7985.8	8231.3	8743.9	9889.0
50°	13550.6	13536.4	13303.2	12827.7	11502.4	10010.9	9705.3	9019.6	9401.3	10113.5	11866.5
52.5°	14930.6	14674.5	14460.6	14232.7	13172.3	11240.9	10866.3	10049.9	10776.2	11672.0	14276.9
55°	15213.4	15098.6	15363.7	15747.2	14782.2	12518.6	12082.1	11341.6	12324.1	13453.3	17056.6
57.5°	15817.8	15816.1	16363.9	17047.8	16439.9	13874.0	13434.0	12902.0	14064.9	15494.4	20007.8
60°	16226.1	16340.9	17358.8	18686.0	18067.4	15439.7	15035.0	14702.7	16044.1	17775.8	22757.5
62.5°	16439.9	16595.4	17984.3	19350.4	20368.3	18046.2	17641.5	17162.7	18662.9	20278.2	24365.5
65°	15551.0	15856.7	17887.2	19924.8	22382.9	22271.5	22089.5	21248.2	21937.5	22255.6	23784.2
67.5°	13091.1	13403.9	15768.4	19389.2	23821.3	26346.6	26385.5	24948.7	23952.0	22425.3	19997.2
70°	9327.0	9572.7	11528.9	16256.1	22725.6	29009.7	29142.3	26654.1	23551.0	19887.5	13971.2
72.5°	4428.6	4578.8	6430.6	10580.0	18033.8	26579.8	26836.1	24476.8	20025.5	14723.9	7621.8
75°	1627.5	1673.5	2173.5	4501.0	10459.9	19601.3	19903.4	17546.1	13275.0	7330.2	2903.4
77.5°	975.5	1005.6	1219.3	1899.6	4114.0	11203.8	11650.8	9542.6	5801.6	2728.5	1427.9
80°	682.2	703.4	874.7	1182.2	1943.9	4269.5	4667.1	3894.8	2311.5	1726.5	1039.1
82.5°	461.2	471.8	615.0	798.8	1291.9	1525.1	1645.2	1731.8	1558.6	1284.8	659.1
85°	302.2	312.8	417.1	526.5	821.7	788.2	805.8	1019.7	1138.1	873.0	365.8
87.5°	173.2	180.3	250.9	281.0	402.9	334.0	337.6	537.2	728.0	588.5	222.7
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°	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7	4214.7
2.5°	4198.8	4175.9	4124.6	4092.8	4062.8	4055.7	4043.2	4041.5	4039.7	4039.7	4034.4
5°	4105.2	4066.3	3986.7	3942.5	3905.4	3901.9	3900.1	3909.0	3912.5	3916.0	3910.7
7.5°	4045.0	3992.0	3893.1	3829.5	3785.3	3774.7	3792.4	3833.0	3859.5	3870.1	3864.8
10°	4007.9	3942.5	3827.7	3758.8	3721.7	3716.4	3739.4	3787.1	3841.8	3863.0	3861.3
12.5°	3965.5	3891.3	3769.4	3696.9	3675.7	3686.3	3716.4	3760.6	3817.1	3850.7	3852.4
15°	3923.1	3836.5	3711.1	3647.4	3638.6	3652.7	3681.0	3714.6	3758.8	3792.4	3795.9
17.5°	3871.9	3781.8	3656.2	3590.9	3583.8	3590.9	3592.6	3610.3	3638.6	3670.4	3679.2
20°	3817.1	3725.2	3594.4	3529.0	3497.2	3469.0	3437.2	3440.7	3449.5	3481.3	3488.4
22.5°	3778.2	3686.3	3546.7	3456.6	3371.8	3286.9	3223.3	3214.4	3218.0	3244.5	3253.3
25°	3781.8	3684.5	3534.3	3378.9	3193.2	3057.2	2972.3	2958.2	2956.4	2975.8	2988.2
27.5°	3850.7	3753.5	3580.3	3299.2	2998.9	2797.4	2707.3	2696.7	2682.6	2687.9	2702.0
30°	4004.4	3914.3	3691.6	3218.0	2788.6	2542.9	2449.3	2438.7	2419.2	2410.4	2421.0
32.5°	4255.4	4181.2	3854.2	3140.2	2578.2	2325.6	2230.1	2207.1	2194.7	2184.1	2193.0
35°	4672.4	4640.6	4071.6	3055.4	2392.7	2157.6	2071.1	2035.7	2018.1	2037.5	2051.6
37.5°	5326.2	5343.8	4356.1	2922.8	2249.5	2046.3	1973.9	1933.2	1906.7	1922.6	1938.6
40°	6252.3	6264.6	4670.6	2735.6	2125.8	1981.0	1903.1	1866.0	1828.9	1800.7	1798.9
42.5°	7468.0	7342.6	4979.8	2532.3	1982.7	1940.3	1853.7	1807.7	1751.2	1673.5	1657.6
45°	8910.0	8469.9	5214.9	2299.1	1821.9	1890.8	1798.9	1735.3	1647.0	1562.2	1553.3
47.5°	10571.2	9680.5	5329.7	2056.9	1671.7	1818.3	1731.8	1631.1	1519.8	1477.4	1472.1
50°	12599.8	11117.2	5384.5	1821.9	1541.0	1722.9	1634.6	1516.2	1422.6	1413.8	1408.5
52.5°	14909.4	12845.5	5402.1	1629.3	1433.2	1599.3	1555.1	1440.3	1366.1	1373.1	1373.1
55°	17327.0	14630.3	5161.9	1489.7	1334.3	1472.1	1502.1	1410.2	1348.4	1376.7	1387.3
57.5°	19546.5	16211.9	4405.6	1382.0	1240.6	1374.9	1482.7	1438.5	1396.1	1510.9	1518.0
60°	21250.0	17146.8	3290.4	1284.8	1171.6	1341.3	1533.9	1546.3	1556.9	1830.7	1867.8
62.5°	21607.0	16835.8	2261.9	1208.7	1139.8	1369.6	1627.5	1629.3	1616.9	1807.7	1830.7
65°	19969.0	14868.8	1645.2	1166.3	1113.3	1420.8	1707.0	1669.9	1588.7	1733.5	1691.1
67.5°	15858.5	11202.0	1369.6	1134.5	1074.5	1417.3	1791.8	1707.0	1572.8	1698.2	1629.3
70°	10293.7	6773.5	1219.3	1108.0	1028.5	1350.2	1841.3	1703.5	1526.8	1579.8	1498.6
72.5°	5022.2	3028.9	1118.6	1069.2	980.8	1256.5	1839.5	1671.7	1479.1	1475.6	1431.4
75°	1965.1	1387.3	1026.8	1010.9	899.6	1150.4	1790.1	1625.8	1422.6	1366.1	1350.2
77.5°	1150.4	989.7	910.2	924.3	802.2	1044.4	1717.6	1546.3	1344.9	1277.7	1260.1
80°	837.6	740.5	775.7	798.8	685.6	938.4	1620.5	1449.1	1258.3	1291.9	1267.1
82.5°	537.2	477.1	629.2	652.1	570.9	830.6	1514.5	1346.6	1136.3	1032.1	1007.3
85°	274.0	302.2	468.2	496.6	440.0	682.2	1385.5	1210.5	998.5	858.8	873.0
87.5°	153.7	206.8	298.6	334.0	311.1	524.8	1123.9	998.5	814.7	662.7	583.2
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)