

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: P193305

Luminaire Tested: **GAN-AF-07-LED-U-T4W-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193305
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-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32669.6 lumens
Efficiency: N/A
Efficacy: 110.7 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): 295
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

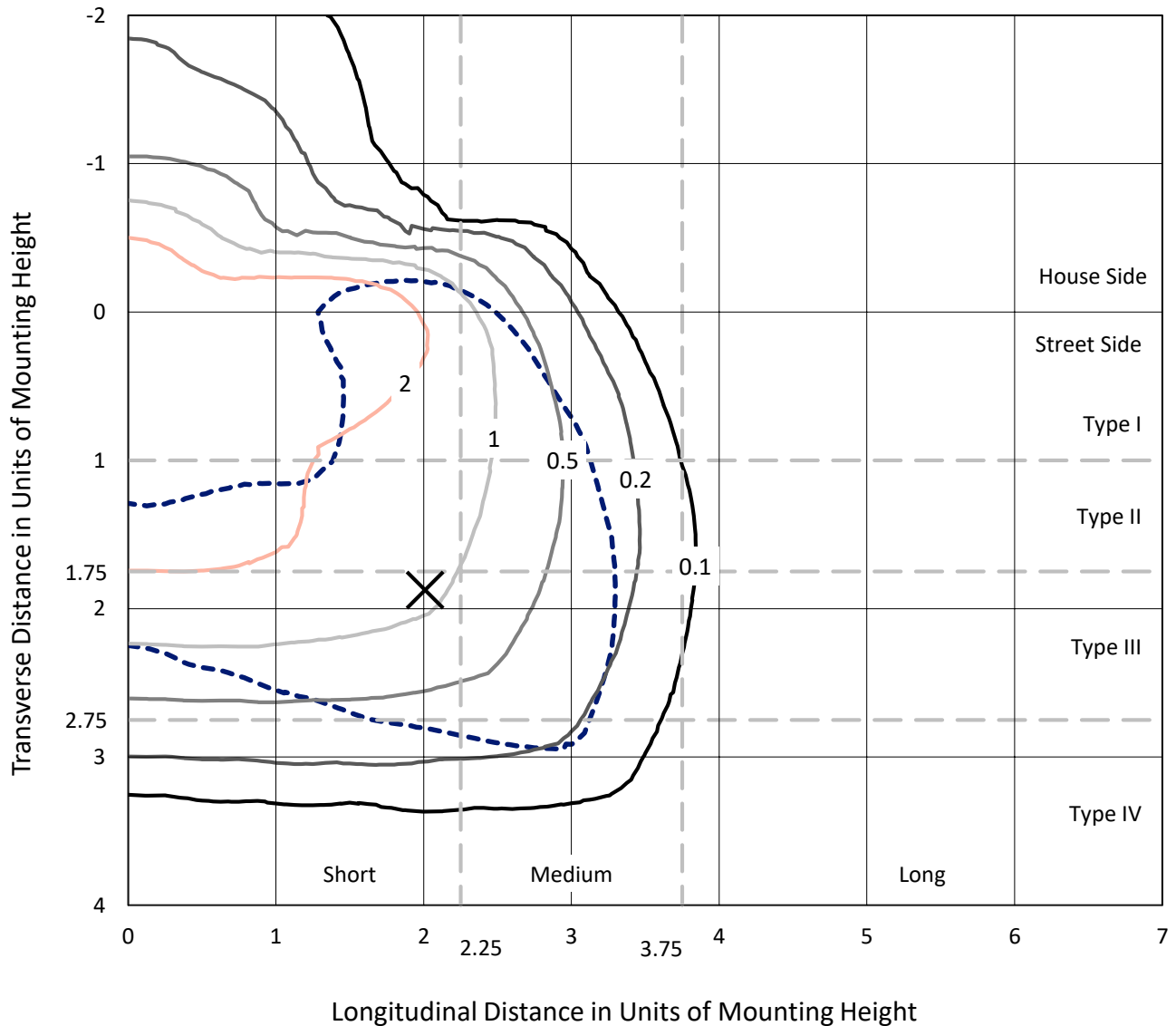


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

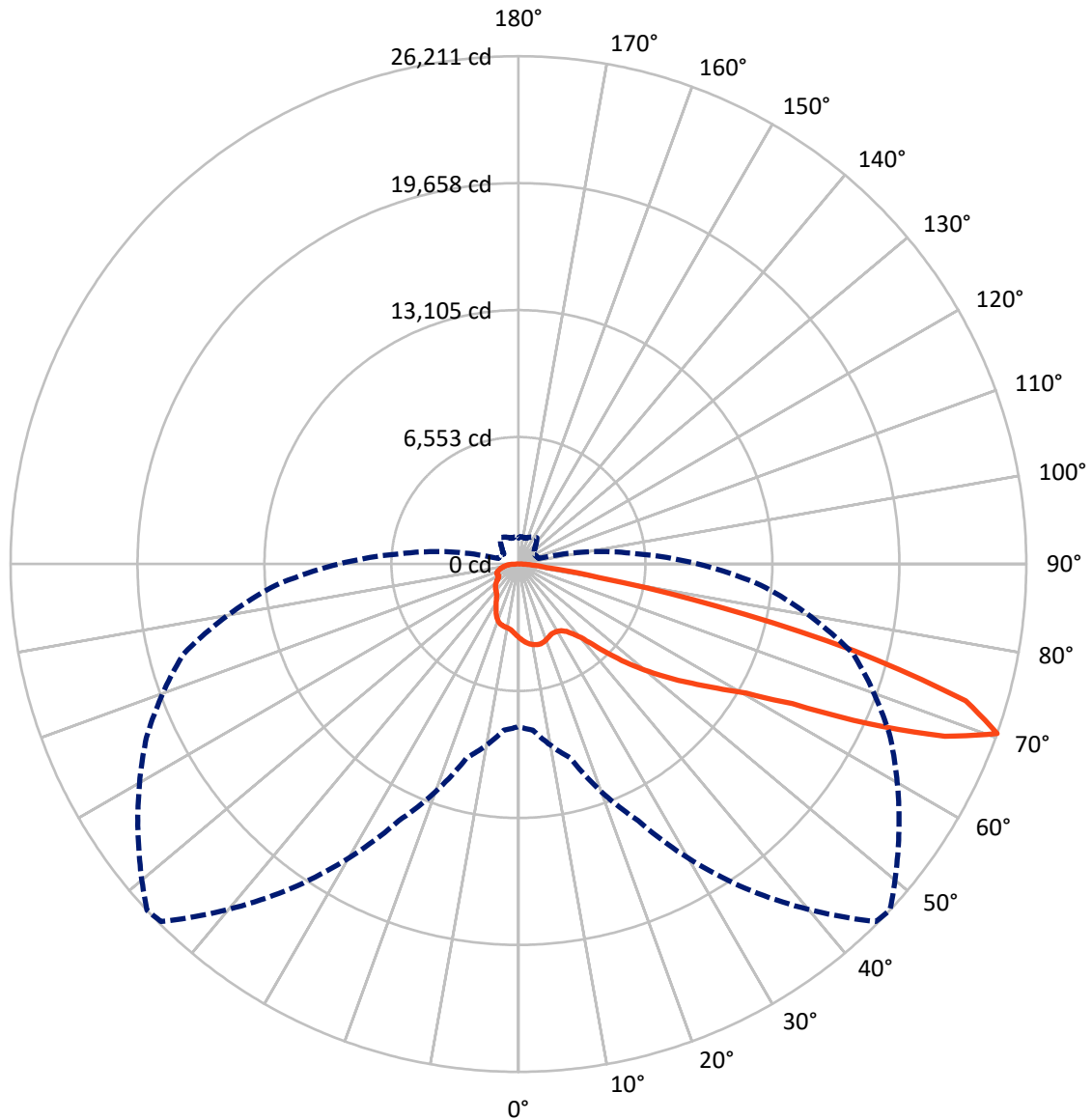


Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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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	6815.5	0.0	6815.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	25854.1	0.0	25854.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	32669.6	0.0	32669.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.2	1.1
10°-20°	1065.6	3.3
20°-30°	1573.6	4.8
30°-40°	2287.1	7.0
40°-50°	4116.1	12.6
50°-60°	7130.6	21.8
60°-70°	10177.5	31.2
70°-80°	5224.5	16.0
80°-90°	731.4	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°	32669.6	100.0
0°-180°	32669.6	100.0

Coefficient of Utilization



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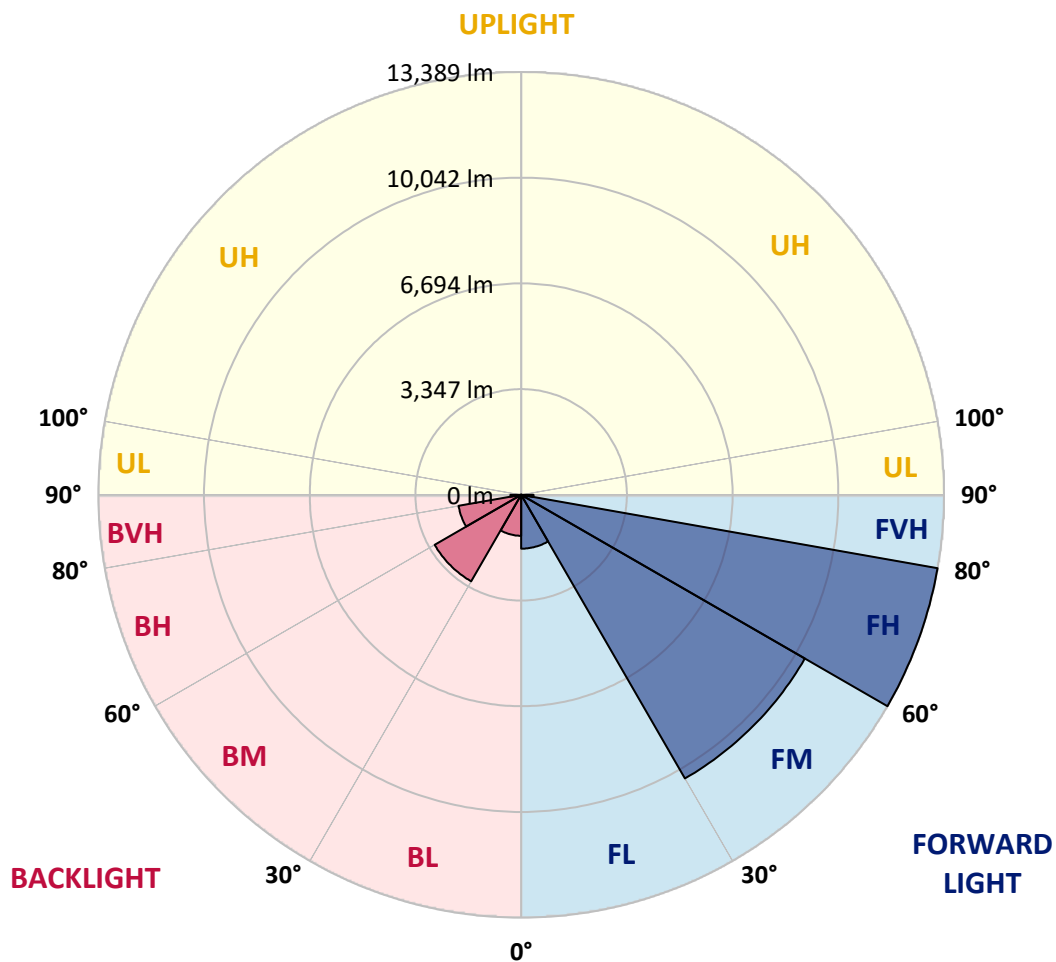
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1704.6	5.2			
FM	(30°-60°)	10370.3	31.7			
FH	(60°-80°)	13388.9	41.0			G5
FVH	(80°-90°)	390.3	1.2			G3/500
BL	(0°-30°)	1297.7	4.0	B3/2500		
BM	(30°-60°)	3163.6	9.7	B3/5000		
BH	(60°-80°)	2013.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	341.1	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°	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6
2.5°	4013.2	4005.2	4002.0	3995.7	3987.8	3948.1	3940.1	3911.5	3871.7	3830.4	3787.5
5°	4277.1	4275.5	4258.0	4226.1	4175.4	4087.9	4067.2	3997.4	3903.5	3812.9	3722.4
7.5°	4509.1	4494.8	4461.4	4397.8	4308.8	4189.6	4161.0	4064.1	3935.3	3811.4	3688.9
10°	4679.1	4671.2	4598.0	4510.7	4394.6	4262.8	4229.3	4121.3	3979.9	3822.4	3669.9
12.5°	4776.2	4760.2	4676.0	4571.1	4432.7	4304.0	4270.7	4161.0	4002.0	3822.4	3642.9
15°	4769.7	4758.7	4674.4	4559.9	4420.1	4307.2	4277.1	4167.3	3997.4	3806.6	3608.0
17.5°	4642.7	4647.4	4575.9	4463.0	4348.5	4262.8	4235.8	4134.1	3965.6	3774.8	3566.6
20°	4420.1	4442.4	4394.6	4294.6	4230.9	4172.2	4154.7	4068.9	3916.3	3728.7	3522.1
22.5°	4197.5	4218.3	4199.2	4114.9	4105.4	4070.5	4060.8	3998.9	3873.3	3700.1	3495.1
25°	4033.9	4053.0	4049.8	3976.6	4005.2	4003.7	3995.7	3965.6	3863.9	3700.1	3499.8
27.5°	3989.4	3995.7	3989.4	3922.6	3962.4	3994.1	3987.8	3983.0	3892.4	3746.2	3560.2
30°	4141.9	4132.4	4083.1	3948.1	3984.5	4029.2	4022.7	4025.8	3978.2	3867.0	3695.3
32.5°	4750.7	4707.8	4552.0	4172.2	4075.2	4099.1	4102.2	4154.7	4162.6	4053.0	3905.2
35°	5661.4	5613.7	5411.8	4772.9	4356.5	4273.9	4273.9	4353.3	4401.0	4320.0	4230.9
37.5°	6626.1	6573.7	6465.6	5605.8	4947.8	4577.4	4569.4	4625.2	4693.4	4712.6	4734.8
40°	7722.9	7667.2	7697.5	6540.4	5772.7	5103.5	4990.6	4951.0	5135.3	5257.7	5435.7
42.5°	8922.8	8897.4	8908.6	7581.4	6712.1	5890.2	5729.8	5524.7	5747.2	5965.0	6338.4
45°	10033.9	10056.1	10045.0	8695.5	7757.9	6850.2	6680.2	6282.9	6500.6	6874.1	7482.8
47.5°	11006.6	10914.4	11057.4	9913.0	8929.2	7924.7	7714.9	7182.4	7403.4	7864.3	8894.2
50°	12187.5	12174.8	11964.9	11537.3	10345.3	9003.8	8728.9	8112.3	8455.6	9096.1	10672.8
52.5°	13428.7	13198.3	13006.0	12801.0	11847.3	10110.1	9773.1	9038.8	9692.1	10497.9	12840.7
55°	13683.1	13579.8	13818.1	14163.1	13295.2	11259.2	10866.6	10200.7	11084.4	12100.0	15340.8
57.5°	14226.6	14225.0	14717.8	15332.8	14786.0	12478.3	12082.6	11604.1	12649.9	13935.8	17995.1
60°	14593.8	14697.1	15612.6	16806.1	16249.9	13886.6	13522.5	13223.7	14430.1	15987.7	20468.2
62.5°	14786.0	14925.9	16175.2	17403.8	18319.3	16230.8	15866.8	15436.1	16785.5	18238.2	21914.4
65°	13986.6	14261.6	16087.8	17920.3	20131.2	20031.0	19867.3	19110.7	19730.7	20016.8	21391.6
67.5°	11774.3	12055.5	14182.1	17438.8	21424.9	23696.1	23731.1	22439.0	21542.5	20169.4	17985.5
70°	8388.8	8609.7	10369.1	14620.7	20439.5	26091.4	26210.6	23972.8	21181.8	17887.0	12565.7
72.5°	3983.0	4118.1	5783.7	9515.7	16219.7	23906.0	24136.5	22014.6	18011.0	13242.8	6855.0
75°	1463.8	1505.1	1954.9	4048.2	9407.6	17629.5	17901.2	15781.1	11939.6	6592.8	2611.4
77.5°	877.4	904.3	1096.6	1708.6	3700.1	10076.8	10478.8	8582.8	5218.0	2454.0	1284.3
80°	613.5	632.6	786.7	1063.3	1748.3	3839.9	4197.5	3503.0	2078.8	1552.8	934.6
82.5°	414.8	424.4	553.1	718.4	1161.9	1371.6	1479.7	1557.6	1401.8	1155.5	592.8
85°	271.8	281.4	375.1	473.6	739.0	708.9	724.7	917.1	1023.5	785.1	329.0
87.5°	155.8	162.1	225.7	252.7	362.4	300.4	303.5	483.2	654.8	529.3	200.3
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°	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6	3790.6
2.5°	3776.4	3755.7	3709.7	3681.1	3653.9	3647.6	3636.4	3634.9	3633.3	3633.3	3628.6
5°	3692.2	3657.2	3585.7	3545.9	3512.5	3509.4	3507.8	3515.8	3518.9	3522.1	3517.3
7.5°	3638.2	3590.5	3501.4	3444.2	3404.5	3394.9	3410.8	3447.3	3471.2	3480.8	3476.0
10°	3604.7	3545.9	3442.6	3380.6	3347.2	3342.5	3363.1	3406.0	3455.4	3474.5	3472.8
12.5°	3566.6	3499.8	3390.2	3325.0	3305.9	3315.5	3342.5	3382.2	3433.0	3463.3	3464.8
15°	3528.4	3450.5	3337.8	3280.5	3272.6	3285.3	3310.7	3340.9	3380.6	3410.8	3414.1
17.5°	3482.3	3401.2	3288.4	3229.6	3223.2	3229.6	3231.3	3247.0	3272.6	3301.2	3309.1
20°	3433.0	3350.4	3232.8	3174.0	3145.3	3120.0	3091.4	3094.5	3102.5	3131.1	3137.5
22.5°	3398.1	3315.5	3190.0	3108.9	3032.6	2956.2	2899.0	2891.1	2894.3	2918.1	2926.1
25°	3401.2	3313.9	3178.8	3038.9	2872.0	2749.6	2673.3	2660.7	2659.1	2676.6	2687.7
27.5°	3463.3	3375.9	3220.1	2967.4	2697.2	2516.0	2435.0	2425.4	2412.7	2417.5	2430.2
30°	3601.5	3520.5	3320.3	2894.3	2508.0	2287.2	2202.8	2193.4	2175.9	2167.9	2177.4
32.5°	3827.3	3760.4	3466.5	2824.4	2318.9	2091.7	2005.8	1985.1	1974.0	1964.5	1972.4
35°	4202.3	4173.7	3662.0	2748.1	2152.1	1940.7	1862.8	1830.9	1815.2	1832.6	1845.3
37.5°	4790.4	4806.4	3917.8	2628.9	2023.3	1840.5	1775.4	1738.8	1715.0	1729.2	1743.6
40°	5623.2	5634.4	4200.8	2460.4	1912.0	1781.7	1711.8	1678.4	1645.0	1619.5	1618.0
42.5°	6716.7	6603.9	4478.9	2277.6	1783.3	1745.2	1667.3	1626.0	1575.1	1505.1	1490.9
45°	8013.7	7618.0	4690.3	2067.8	1638.7	1700.6	1618.0	1560.8	1481.3	1405.1	1397.1
47.5°	9507.7	8706.7	4793.6	1850.1	1503.5	1635.5	1557.6	1467.1	1366.9	1328.7	1324.0
50°	11332.4	9998.9	4842.9	1638.7	1386.0	1549.7	1470.2	1363.7	1279.4	1271.6	1266.8
52.5°	13409.7	11553.3	4858.8	1465.3	1289.0	1438.4	1398.6	1295.4	1228.6	1234.9	1234.9
55°	15583.9	13158.5	4642.7	1339.8	1200.0	1324.0	1351.0	1268.3	1212.7	1238.1	1247.6
57.5°	17580.3	14581.0	3962.4	1243.0	1115.7	1236.6	1333.5	1293.7	1255.6	1358.9	1365.3
60°	19112.4	15421.8	2959.4	1155.5	1053.8	1206.3	1379.6	1390.8	1400.2	1646.6	1680.0
62.5°	19433.5	15142.1	2034.4	1087.1	1025.2	1231.8	1463.8	1465.3	1454.2	1626.0	1646.6
65°	17960.0	13373.2	1479.7	1049.0	1001.4	1277.9	1535.3	1502.0	1428.9	1559.2	1521.0
67.5°	14263.1	10075.2	1231.8	1020.4	966.4	1274.7	1611.7	1535.3	1414.6	1527.5	1465.3
70°	9258.2	6092.1	1096.6	996.6	925.0	1214.3	1656.2	1532.2	1373.3	1420.9	1347.8
72.5°	4517.0	2724.2	1006.1	961.6	882.2	1130.1	1654.5	1503.5	1330.3	1327.2	1287.4
75°	1767.4	1247.6	923.5	909.1	808.9	1034.6	1610.1	1462.2	1279.4	1228.6	1214.3
77.5°	1034.6	890.0	818.6	831.3	721.5	939.3	1544.9	1390.8	1209.5	1149.1	1133.2
80°	753.4	665.9	697.7	718.4	616.7	843.9	1457.5	1303.3	1131.6	1161.9	1139.6
82.5°	483.2	429.2	565.9	586.5	513.4	747.0	1362.1	1211.1	1022.0	928.1	906.0
85°	246.4	271.8	421.2	446.7	395.7	613.5	1246.1	1088.8	898.0	772.5	785.1
87.5°	138.3	186.0	268.6	300.4	279.7	472.0	1010.8	898.0	732.7	596.0	524.5
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)