

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: P193323

Luminaire Tested: **GAN-AF-05-LED-U-T4W-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193323
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-05-LED-U-T4W-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31344.3 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

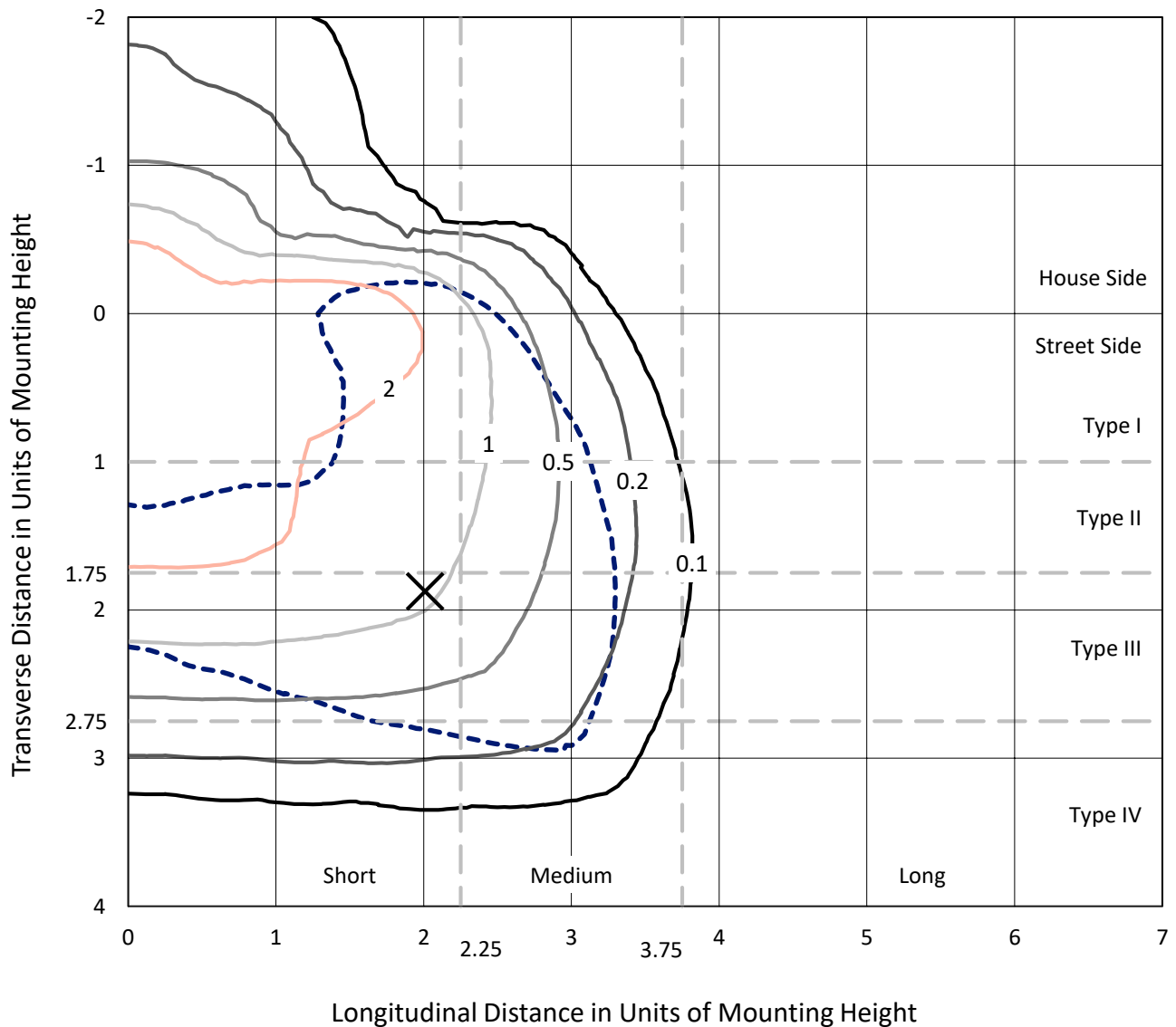


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

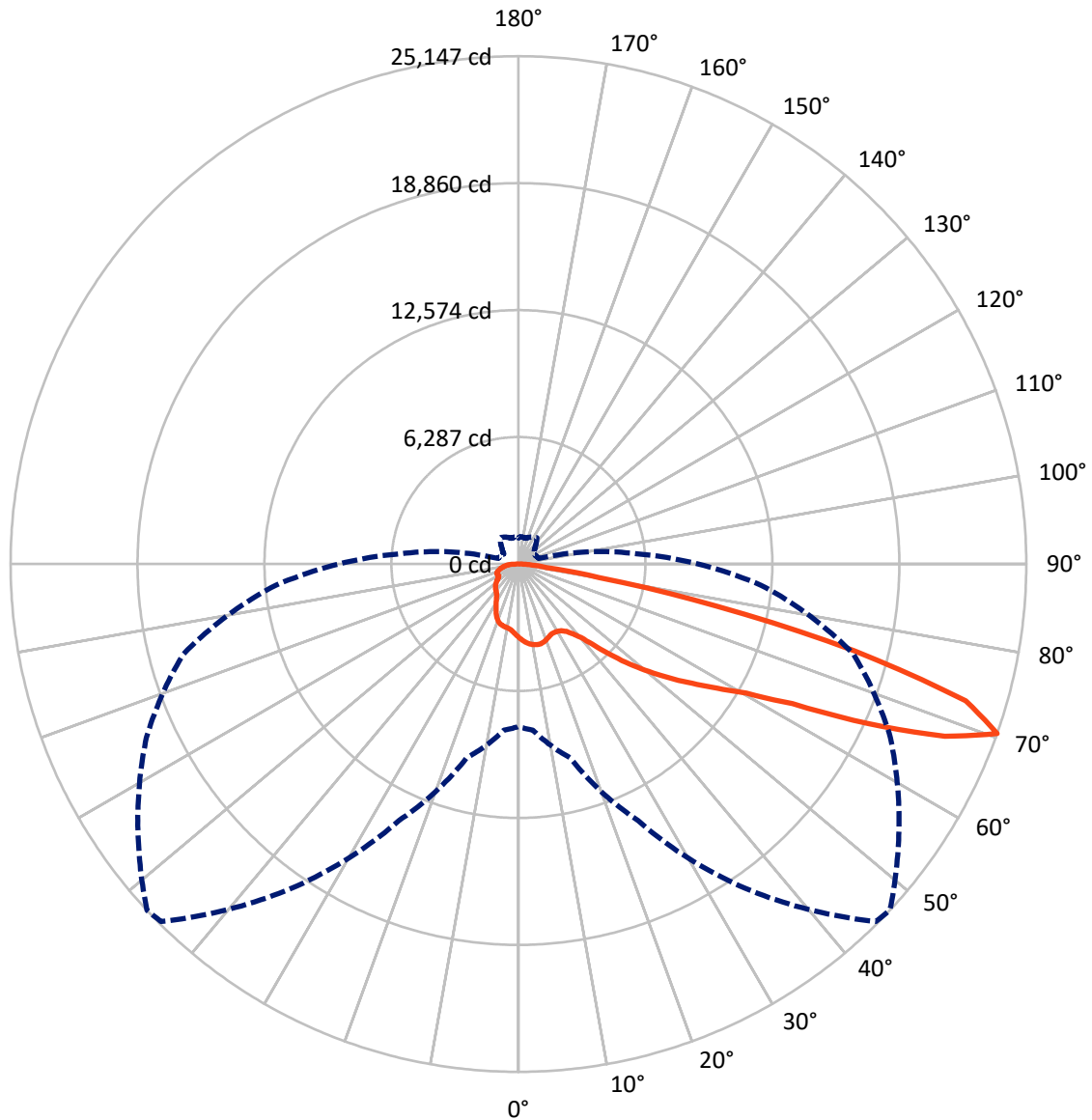


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

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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	6539.0	0.0	6539.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	24805.3	0.0	24805.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	31344.3	0.0	31344.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	1.1
10°-20°	1022.3	3.3
20°-30°	1509.7	4.8
30°-40°	2194.4	7.0
40°-50°	3949.1	12.6
50°-60°	6841.3	21.8
60°-70°	9764.6	31.2
70°-80°	5012.6	16.0
80°-90°	701.8	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°	31344.3	100.0
0°-180°	31344.3	100.0



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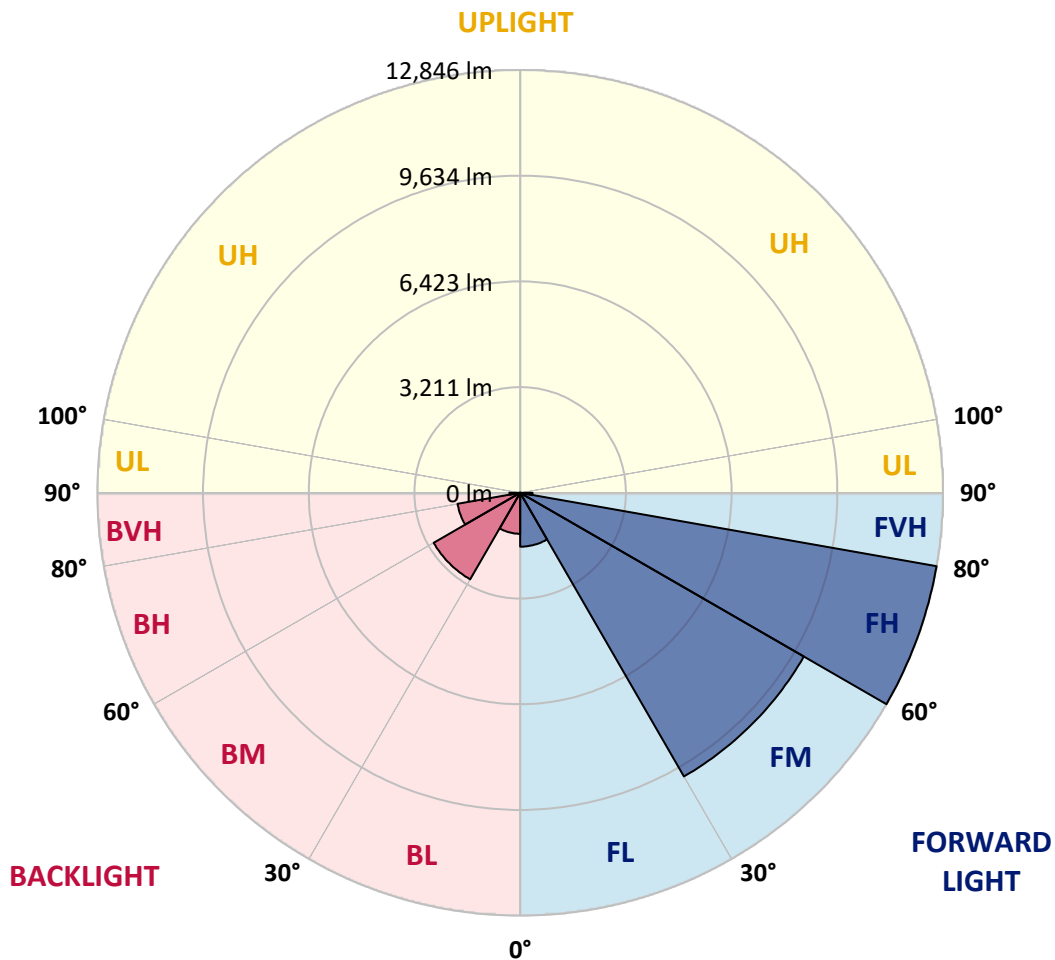
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1635.5	5.2			
FM	(30°-60°)	9949.6	31.7			
FH	(60°-80°)	12845.8	41.0			G5
FVH	(80°-90°)	374.5	1.2			G3/500
BL	(0°-30°)	1245.1	4.0	B3/2500		
BM	(30°-60°)	3035.2	9.7	B3/5000		
BH	(60°-80°)	1931.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	327.3	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°	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9
2.5°	3850.4	3842.7	3839.7	3833.6	3826.0	3787.9	3780.3	3752.8	3714.7	3675.1	3633.9
5°	4103.6	4102.0	4085.2	4054.7	4006.0	3922.1	3902.2	3835.1	3745.2	3658.2	3571.3
7.5°	4326.1	4312.5	4280.4	4219.5	4134.1	4019.6	3992.3	3899.3	3775.7	3656.7	3539.4
10°	4489.4	4481.7	4411.6	4327.6	4216.5	4089.8	4057.8	3954.1	3818.4	3667.4	3521.0
12.5°	4582.4	4567.1	4486.3	4385.6	4253.0	4129.5	4097.4	3992.3	3839.7	3667.4	3495.1
15°	4576.3	4565.6	4484.8	4375.0	4240.8	4132.5	4103.6	3998.4	3835.1	3652.2	3461.6
17.5°	4454.3	4458.9	4390.2	4282.0	4172.2	4089.8	4063.9	3966.3	3804.6	3621.6	3421.9
20°	4240.8	4262.1	4216.5	4120.2	4059.3	4002.9	3986.1	3903.8	3757.4	3577.4	3379.2
22.5°	4027.3	4047.1	4028.8	3948.0	3938.8	3905.3	3896.1	3836.6	3716.2	3550.0	3353.2
25°	3870.2	3888.5	3885.5	3815.4	3842.7	3841.2	3833.6	3804.6	3707.0	3550.0	3357.9
27.5°	3827.6	3833.6	3827.6	3763.4	3801.5	3832.0	3826.0	3821.5	3734.5	3594.2	3415.8
30°	3973.9	3964.8	3917.5	3787.9	3823.0	3865.7	3859.6	3862.7	3816.9	3710.1	3545.5
32.5°	4558.0	4516.8	4367.3	4002.9	3909.9	3932.8	3935.8	3986.1	3993.8	3888.5	3746.7
35°	5431.8	5385.9	5192.3	4579.3	4179.8	4100.5	4100.5	4176.8	4222.5	4144.8	4059.3
37.5°	6357.4	6307.0	6203.3	5378.4	4747.1	4391.7	4384.1	4437.4	4503.0	4521.3	4542.7
40°	7409.5	7356.2	7385.2	6275.0	5538.5	4896.5	4788.2	4750.0	4926.9	5044.4	5215.2
42.5°	8560.9	8536.4	8547.2	7273.8	6439.7	5651.3	5497.3	5300.6	5514.1	5723.0	6081.4
45°	9626.8	9648.1	9637.4	8342.8	7443.1	6572.4	6409.2	6028.0	6236.8	6595.2	7179.3
47.5°	10560.0	10471.5	10608.8	9510.9	8566.9	7603.3	7401.9	6891.1	7103.1	7545.2	8533.3
50°	11693.0	11680.8	11479.6	11069.4	9925.6	8638.6	8374.8	7783.2	8112.5	8727.1	10239.8
52.5°	12884.0	12662.8	12478.4	12281.7	11366.7	9699.9	9376.6	8672.1	9298.9	10072.1	12319.7
55°	13127.9	13028.8	13257.6	13588.5	12755.9	10802.5	10425.8	9786.9	10634.8	11609.2	14718.5
57.5°	13649.4	13648.0	14120.6	14710.7	14186.2	11972.1	11592.4	11133.4	12136.7	13370.4	17265.0
60°	14001.8	14100.9	14979.2	16124.4	15590.7	13323.2	12974.0	12687.3	13844.7	15339.1	19637.8
62.5°	14186.2	14320.4	15519.0	16697.8	17576.1	15572.4	15223.2	14810.0	16104.6	17498.3	21025.6
65°	13419.2	13683.1	15435.2	17193.4	19314.6	19218.4	19061.4	18335.6	18930.3	19204.7	20523.8
67.5°	11296.6	11566.4	13606.8	16731.3	20555.8	22734.8	22768.4	21528.7	20668.7	19351.1	17255.9
70°	8048.5	8260.4	9948.5	14027.7	19610.4	25032.9	25147.3	23000.2	20322.5	17161.4	12056.0
72.5°	3821.5	3951.1	5549.2	9129.6	15561.7	22936.1	23157.3	21121.6	17280.3	12705.5	6577.0
75°	1404.4	1444.1	1875.7	3883.9	9025.9	16914.3	17175.1	15140.8	11455.2	6325.3	2505.5
77.5°	841.8	867.6	1052.1	1639.3	3550.0	9668.0	10053.7	8234.6	5006.3	2354.4	1232.1
80°	588.6	606.9	754.9	1020.2	1677.3	3684.2	4027.3	3361.0	1994.6	1489.9	896.7
82.5°	398.0	407.1	530.7	689.2	1114.7	1316.0	1419.8	1494.4	1345.0	1108.7	568.8
85°	260.8	269.9	359.9	454.4	709.1	680.1	695.3	879.9	982.0	753.4	315.6
87.5°	149.4	155.5	216.6	242.4	347.7	288.2	291.2	463.6	628.2	507.8	192.2
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°	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9
2.5°	3623.1	3603.4	3559.1	3531.7	3505.8	3499.7	3488.9	3487.4	3485.9	3485.9	3481.3
5°	3542.4	3508.9	3440.2	3402.2	3370.1	3367.1	3365.5	3373.1	3376.1	3379.2	3374.6
7.5°	3490.5	3444.7	3359.4	3304.4	3266.5	3257.2	3272.5	3307.5	3330.4	3339.5	3335.0
10°	3458.5	3402.2	3302.9	3243.5	3211.4	3206.9	3226.8	3267.8	3315.2	3333.5	3332.0
12.5°	3421.9	3357.9	3252.6	3190.2	3171.8	3181.0	3206.9	3245.0	3293.8	3322.8	3324.3
15°	3385.3	3310.5	3202.3	3147.4	3139.8	3152.0	3176.3	3205.3	3243.5	3272.5	3275.5
17.5°	3341.0	3263.3	3155.1	3098.6	3092.5	3098.6	3100.1	3115.4	3139.8	3167.2	3174.8
20°	3293.8	3214.5	3101.7	3045.3	3017.8	2993.3	2966.0	2969.0	2976.7	3004.1	3010.2
22.5°	3260.3	3181.0	3060.5	2982.8	2909.6	2836.4	2781.4	2773.8	2776.9	2799.8	2807.4
25°	3263.3	3179.5	3049.9	2915.6	2755.5	2638.1	2564.9	2552.8	2551.2	2567.9	2578.6
27.5°	3322.8	3238.9	3089.6	2847.0	2587.8	2414.0	2336.2	2327.0	2314.7	2319.3	2331.6
30°	3455.5	3377.6	3185.6	2776.9	2406.3	2194.4	2113.5	2104.4	2087.6	2080.0	2089.1
32.5°	3671.9	3608.0	3325.9	2709.7	2224.8	2006.8	1924.5	1904.6	1893.9	1884.8	1892.4
35°	4031.8	4004.5	3513.4	2636.5	2064.8	1861.9	1787.2	1756.7	1741.5	1758.2	1770.4
37.5°	4596.1	4611.3	3758.9	2522.2	1941.2	1765.8	1703.4	1668.3	1645.3	1659.1	1672.9
40°	5395.1	5405.8	4030.3	2360.5	1834.5	1709.5	1642.2	1610.3	1578.2	1553.8	1552.3
42.5°	6444.3	6336.1	4297.1	2185.1	1711.0	1674.4	1599.7	1560.0	1511.2	1444.1	1430.3
45°	7688.6	7308.9	4500.1	1983.9	1572.1	1631.7	1552.3	1497.5	1421.3	1348.0	1340.4
47.5°	9122.0	8353.4	4599.2	1775.0	1442.5	1569.2	1494.4	1407.5	1311.4	1274.8	1270.2
50°	10872.6	9593.2	4646.4	1572.1	1329.6	1486.8	1410.5	1308.4	1227.5	1219.9	1215.4
52.5°	12865.8	11084.6	4661.6	1405.9	1236.7	1380.1	1341.9	1242.9	1178.8	1184.8	1184.8
55°	14951.8	12624.7	4454.3	1285.6	1151.3	1270.2	1296.2	1216.9	1163.5	1187.8	1197.1
57.5°	16867.0	13989.5	3801.5	1192.4	1070.5	1186.3	1279.4	1241.3	1204.7	1303.8	1309.9
60°	18337.1	14796.2	2839.4	1108.7	1010.9	1157.4	1323.6	1334.3	1343.5	1579.8	1611.8
62.5°	18645.1	14527.8	1951.9	1043.0	983.6	1181.8	1404.4	1405.9	1395.2	1560.0	1579.8
65°	17231.5	12830.7	1419.8	1006.4	960.7	1226.0	1473.1	1441.0	1370.8	1496.0	1459.3
67.5°	13684.5	9666.3	1181.8	979.0	927.2	1222.9	1546.2	1473.1	1357.2	1465.5	1405.9
70°	8882.6	5845.0	1052.1	956.1	887.5	1165.0	1588.9	1470.0	1317.5	1363.2	1293.1
72.5°	4333.8	2613.7	965.3	922.5	846.3	1084.2	1587.4	1442.5	1276.3	1273.3	1235.1
75°	1695.7	1197.1	886.0	872.2	776.2	992.7	1544.7	1402.9	1227.5	1178.8	1165.0
77.5°	992.7	854.0	785.3	797.5	692.2	901.2	1482.2	1334.3	1160.5	1102.5	1087.2
80°	722.9	638.9	669.4	689.2	591.6	809.7	1398.3	1250.5	1085.7	1114.7	1093.3
82.5°	463.6	411.7	542.9	562.6	492.5	716.7	1306.8	1162.0	980.5	890.6	869.1
85°	236.3	260.8	404.2	428.6	379.6	588.6	1195.6	1044.5	861.6	741.1	753.4
87.5°	132.6	178.4	257.8	288.2	268.3	452.9	969.9	861.6	703.0	571.9	503.2
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)