

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: McGRAW-EDISON

Report Number: P302787

Luminaire Tested: **GLNA-AF-05-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-05-LED-E1-T4W-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28478.9 lumens
Efficiency: N/A
Efficacy: 102.1 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 - G4

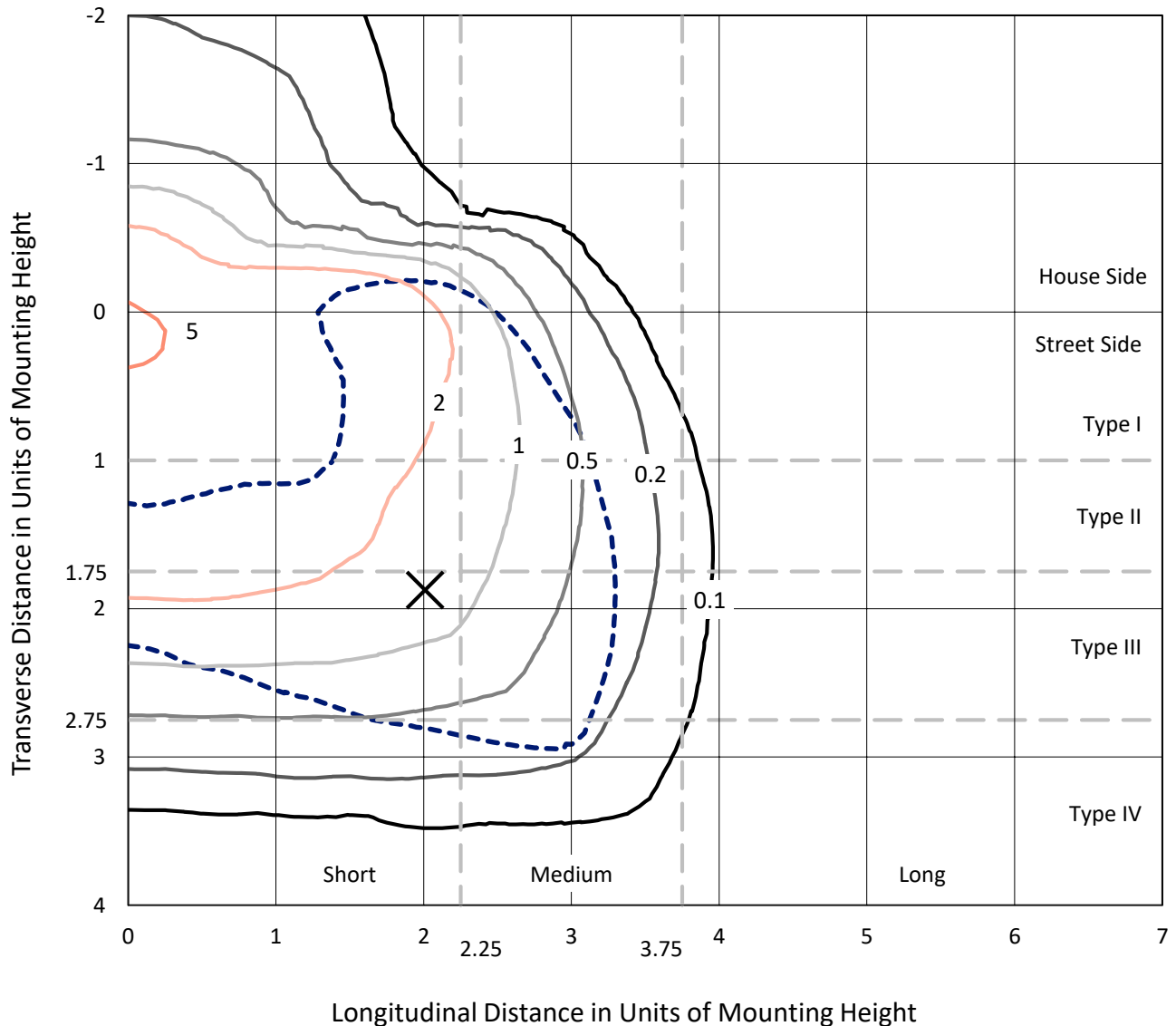
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

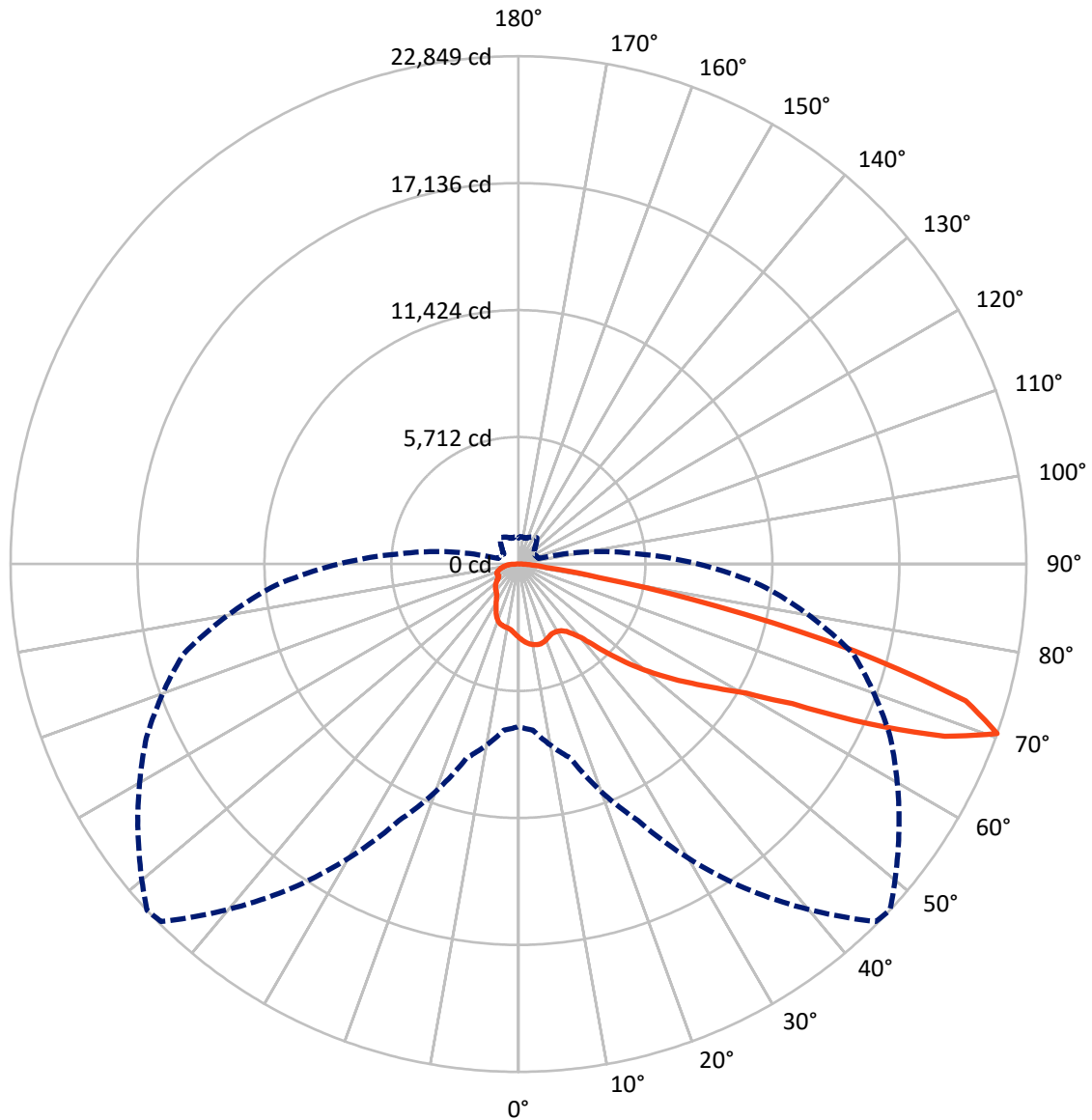
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	5941.3	0.0	5941.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	22537.6	0.0	22537.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	28478.9	0.0	28478.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.6	1.1
10°-20°	928.9	3.3
20°-30°	1371.7	4.8
30°-40°	1993.8	7.0
40°-50°	3588.0	12.6
50°-60°	6215.9	21.8
60°-70°	8872.0	31.2
70°-80°	4554.4	16.0
80°-90°	637.6	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°	28478.9	100.0
0°-180°	28478.9	100.0

Coefficient of Utilization



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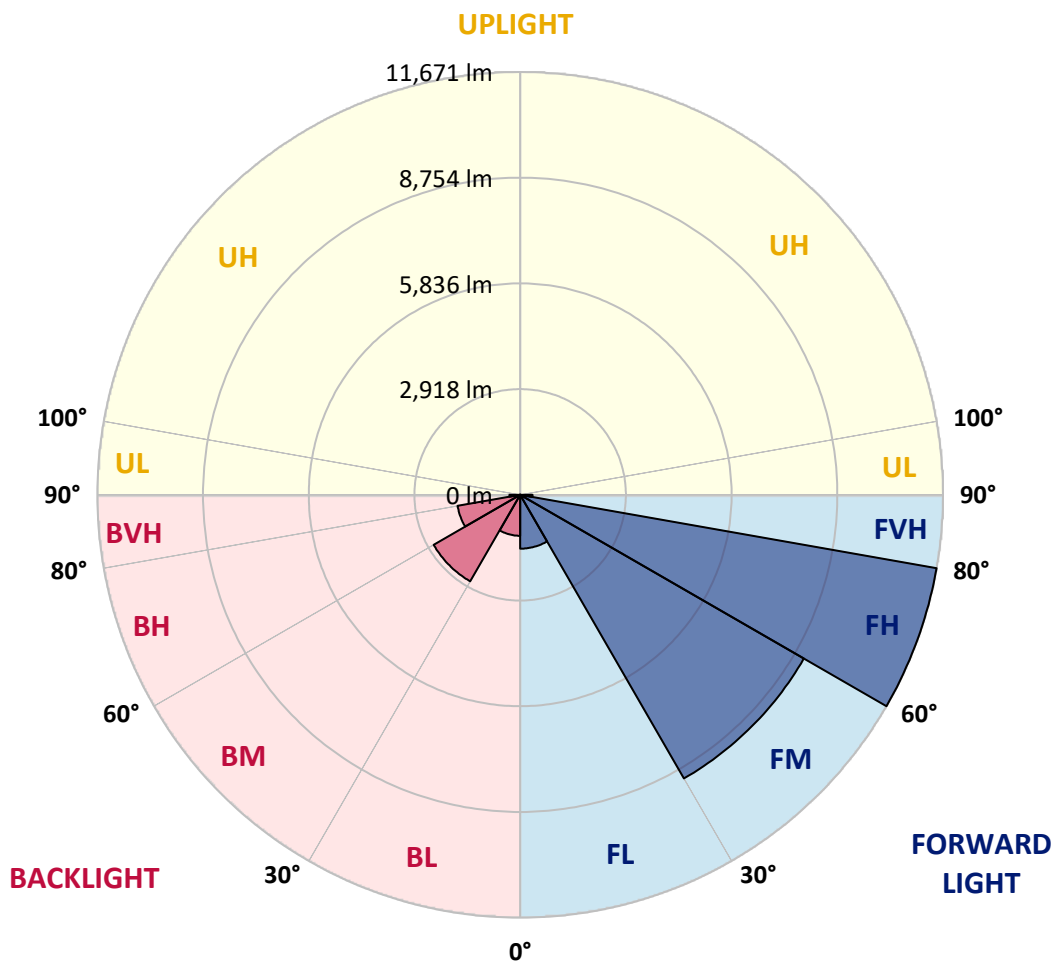
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1486.0	5.2			
FM	(30°-60°)	9040.0	31.7			
FH	(60°-80°)	11671.4	41.0			G4/12000
FVH	(80°-90°)	340.2	1.2			G3/500
BL	(0°-30°)	1131.2	4.0	B3/2500		
BM	(30°-60°)	2757.8	9.7	B3/5000		
BH	(60°-80°)	1754.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	297.4	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4
2.5°	3498.5	3491.6	3488.9	3483.4	3476.5	3441.5	3434.6	3409.7	3375.2	3338.9	3301.6
5°	3728.6	3727.2	3711.6	3684.0	3639.8	3563.4	3545.5	3484.7	3402.8	3323.7	3245.0
7.5°	3930.6	3918.2	3889.2	3833.5	3756.2	3652.2	3627.4	3542.7	3430.4	3322.3	3215.6
10°	4078.8	4071.9	4008.4	3932.0	3830.8	3715.7	3686.8	3592.4	3469.1	3332.0	3199.0
12.5°	4163.5	4149.7	4076.0	3984.9	3864.4	3752.1	3722.6	3627.4	3488.9	3332.0	3175.5
15°	4157.9	4148.3	4074.7	3974.8	3853.3	3754.9	3728.6	3632.9	3484.7	3318.2	3145.1
17.5°	4047.1	4051.2	3989.1	3890.6	3790.7	3715.7	3692.3	3603.9	3456.7	3290.6	3109.3
20°	3853.3	3872.7	3830.8	3743.8	3688.1	3637.1	3621.9	3546.9	3413.9	3250.5	3070.1
22.5°	3659.1	3677.1	3660.5	3586.9	3578.6	3548.2	3540.0	3486.1	3376.6	3225.7	3046.7
25°	3516.5	3533.1	3530.3	3466.3	3491.6	3490.3	3483.4	3456.7	3368.3	3225.7	3050.8
27.5°	3477.8	3483.4	3477.8	3419.4	3453.9	3482.0	3476.5	3471.9	3393.2	3265.7	3103.7
30°	3610.8	3602.5	3559.3	3441.5	3473.7	3512.4	3506.8	3509.6	3467.7	3371.1	3221.5
32.5°	4141.4	4103.6	3967.9	3637.1	3552.4	3573.1	3575.9	3621.9	3628.8	3533.1	3404.2
35°	4935.1	4893.7	4717.5	4160.7	3797.6	3725.9	3725.9	3794.9	3836.3	3765.9	3688.1
37.5°	5776.3	5730.3	5636.4	4886.8	4313.0	3990.5	3983.5	4031.9	4091.2	4108.3	4127.6
40°	6732.0	6683.7	6710.0	5701.3	5032.2	4448.8	4350.3	4315.8	4476.4	4583.1	4738.7
42.5°	7778.4	7755.9	7765.6	6608.7	5850.9	5134.9	4995.0	4816.0	5010.2	5199.7	5525.5
45°	8746.6	8765.9	8756.3	7580.1	6762.9	5971.4	5823.2	5476.7	5666.8	5992.1	6523.1
47.5°	9594.7	9514.1	9638.8	8641.2	7784.0	6908.3	6725.1	6261.3	6453.7	6855.4	7753.1
50°	10624.0	10613.0	10430.3	10057.6	9018.1	7848.8	7609.1	7071.6	7370.7	7929.4	9303.8
52.5°	11706.3	11505.2	11337.7	11158.7	10327.7	8813.3	8519.3	7879.2	8448.9	9151.1	11193.7
55°	11927.6	11837.9	12045.4	12346.4	11589.9	9815.1	9472.7	8892.0	9662.8	10548.1	13373.0
57.5°	12401.6	12400.2	12830.0	13366.1	12889.4	10877.6	10532.5	10115.6	11027.1	12148.1	15686.6
60°	12721.9	12811.6	13610.0	14650.4	14165.4	12105.3	11787.8	11527.3	12579.2	13936.7	17842.5
62.5°	12889.4	13011.3	14100.5	15171.3	15969.2	14148.8	13831.8	13456.3	14632.4	15898.8	19103.3
65°	12192.7	12432.0	14024.1	15621.8	17548.9	17461.4	17318.8	16659.4	17199.6	17449.0	18647.7
67.5°	10263.7	10509.0	12362.9	15201.6	18676.7	20656.8	20687.1	19560.7	18779.3	17582.0	15678.4
70°	7312.8	7505.1	9039.3	12745.3	17817.6	22744.5	22848.5	20897.4	18464.6	15592.3	10954.0
72.5°	3471.9	3589.7	5041.9	8295.2	14139.1	20839.4	21040.5	19190.7	15700.4	11543.9	5975.6
75°	1276.0	1311.9	1703.9	3528.9	8200.9	15368.2	15605.2	13756.8	10407.8	5747.3	2276.4
77.5°	764.8	788.2	956.2	1489.5	3225.7	8784.3	9134.5	7481.6	4548.6	2139.3	1119.6
80°	534.7	551.3	685.6	926.7	1524.0	3347.6	3659.1	3053.6	1812.1	1353.8	814.5
82.5°	361.7	370.0	482.2	626.3	1012.8	1195.5	1289.8	1357.9	1222.2	1007.3	516.8
85°	237.0	245.3	327.2	412.8	644.2	618.0	631.8	799.3	892.2	684.2	286.7
87.5°	135.7	141.3	196.9	220.4	316.1	261.8	264.6	421.0	571.1	461.5	174.4
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°	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4	3304.4
2.5°	3291.9	3274.0	3234.0	3208.7	3185.2	3179.7	3170.0	3168.6	3167.2	3167.2	3163.1
5°	3218.3	3187.9	3125.8	3090.9	3061.9	3059.1	3057.7	3064.6	3067.4	3070.1	3066.0
7.5°	3171.4	3130.0	3052.2	3002.5	2968.0	2959.2	2973.5	3005.3	3026.0	3034.3	3030.1
10°	3142.4	3090.9	3001.1	2946.8	2917.8	2913.7	2931.6	2969.4	3012.2	3028.7	3027.4
12.5°	3109.3	3050.8	2955.1	2898.5	2881.9	2890.2	2913.7	2948.2	2992.8	3019.1	3020.4
15°	3075.7	3008.0	2909.6	2859.9	2853.0	2864.0	2886.1	2912.3	2946.8	2973.5	2976.3
17.5°	3035.6	2964.8	2866.8	2815.2	2809.7	2815.2	2816.6	2830.4	2853.0	2877.8	2884.7
20°	2992.8	2920.6	2818.0	2766.9	2742.1	2720.0	2694.7	2697.4	2704.3	2729.6	2735.2
22.5°	2962.0	2890.2	2780.7	2709.8	2643.6	2576.9	2527.2	2520.3	2523.0	2543.7	2550.6
25°	2964.8	2888.8	2771.0	2649.1	2503.7	2396.9	2330.2	2319.2	2317.8	2333.0	2343.1
27.5°	3019.1	2942.7	2806.9	2586.5	2351.4	2193.1	2122.7	2114.4	2103.4	2107.5	2118.5
30°	3139.6	3068.8	2894.4	2523.0	2186.2	1993.8	1920.2	1911.9	1896.8	1889.9	1898.1
32.5°	3336.1	3278.1	3021.8	2461.8	2021.5	1823.1	1748.6	1730.6	1721.0	1712.7	1719.6
35°	3663.3	3638.4	3192.1	2395.6	1876.0	1691.5	1623.9	1596.3	1582.5	1597.7	1608.7
37.5°	4175.9	4189.7	3415.3	2291.6	1763.8	1604.6	1547.5	1515.7	1495.0	1507.5	1519.9
40°	4902.0	4911.7	3661.9	2144.8	1666.7	1553.0	1492.3	1463.3	1433.8	1411.8	1410.4
42.5°	5855.0	5757.0	3904.4	1985.6	1554.4	1521.3	1453.6	1417.3	1373.1	1311.9	1299.5
45°	6985.6	6640.9	4088.5	1802.4	1428.3	1482.6	1410.4	1360.7	1291.2	1224.9	1218.0
47.5°	8288.3	7589.8	4178.7	1612.8	1310.5	1425.6	1357.9	1278.8	1191.3	1158.2	1154.1
50°	9878.6	8716.2	4221.4	1428.3	1208.4	1351.0	1281.5	1188.6	1115.4	1108.5	1104.4
52.5°	11689.7	10071.4	4235.7	1277.4	1123.7	1253.9	1219.4	1129.2	1070.8	1076.8	1076.8
55°	13585.1	11470.7	4047.1	1167.9	1045.9	1154.1	1177.5	1105.7	1057.0	1079.5	1087.8
57.5°	15325.0	12710.8	3453.9	1083.7	972.8	1078.1	1162.3	1127.8	1094.7	1184.4	1190.0
60°	16660.8	13443.4	2579.6	1007.3	918.5	1051.5	1202.8	1212.5	1220.8	1435.2	1464.7
62.5°	16940.6	13200.0	1773.4	947.9	893.6	1074.0	1276.0	1277.4	1267.7	1417.3	1435.2
65°	15656.3	11657.5	1289.8	914.3	872.9	1114.0	1338.6	1309.1	1245.6	1359.3	1325.7
67.5°	12433.3	8783.0	1074.0	889.5	842.5	1111.3	1404.8	1338.6	1233.2	1331.7	1277.4
70°	8070.6	5310.6	956.2	868.8	806.2	1058.4	1443.5	1335.8	1196.9	1238.7	1174.8
72.5°	3937.5	2374.9	877.1	838.4	768.9	985.2	1442.1	1310.5	1159.6	1156.8	1122.3
75°	1540.6	1087.8	804.8	792.4	705.4	901.9	1403.5	1274.6	1115.4	1070.8	1058.4
77.5°	901.9	775.8	713.7	724.7	629.0	818.6	1346.9	1212.5	1054.2	1001.8	987.9
80°	656.6	580.7	608.3	626.3	537.5	735.8	1270.5	1136.1	986.6	1012.8	993.5
82.5°	421.0	374.1	493.3	511.2	447.7	651.1	1187.2	1055.6	890.9	808.9	789.6
85°	214.9	237.0	367.2	389.3	345.1	534.7	1086.4	949.3	782.7	673.2	684.2
87.5°	120.6	162.0	234.2	261.8	243.9	411.4	881.2	782.7	638.7	519.5	457.4
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)