

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: P300453

Luminaire Tested: **GLNA-AF-07-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300453  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-07-LED-E1-T4FT-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26898.4 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

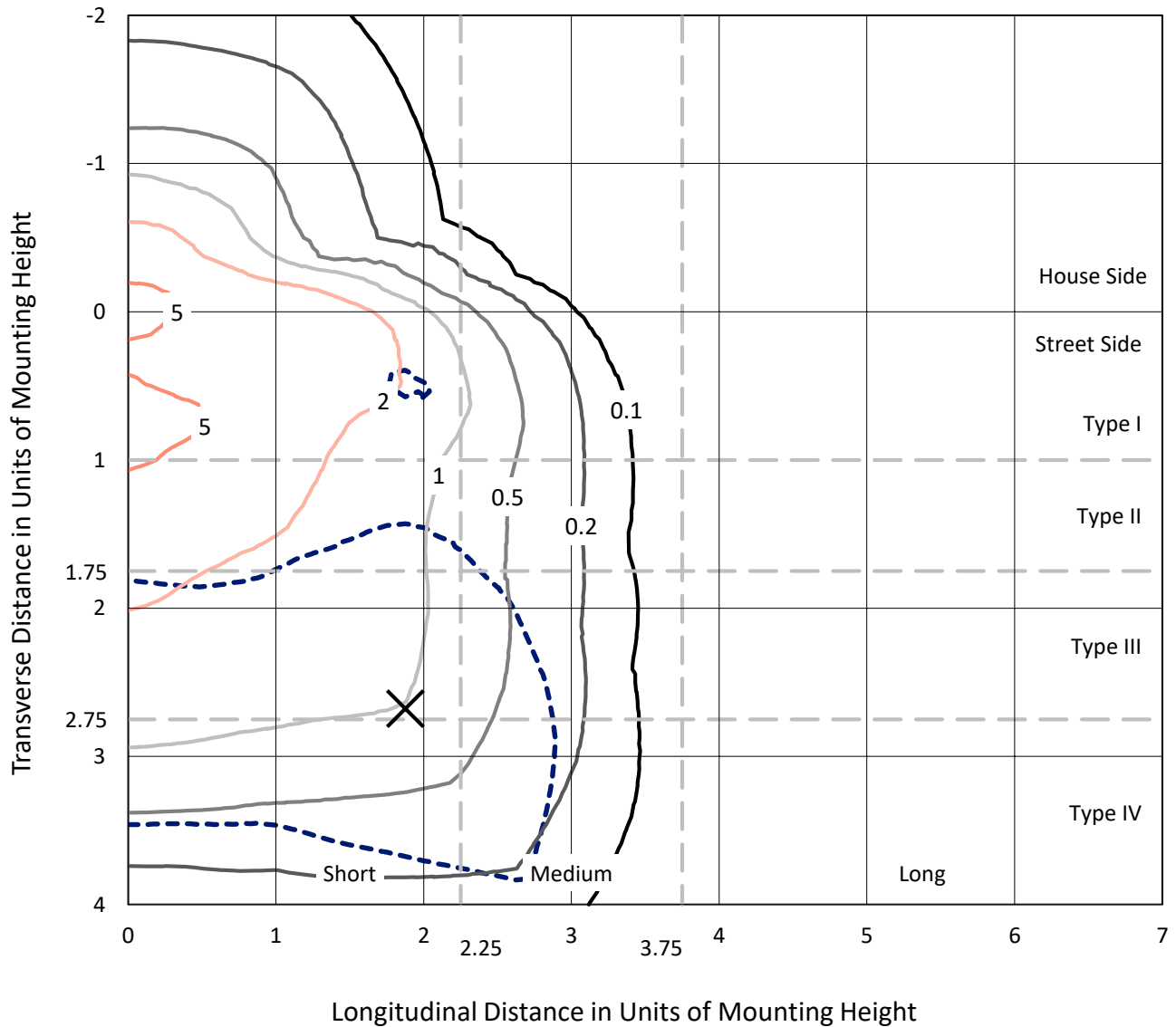
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

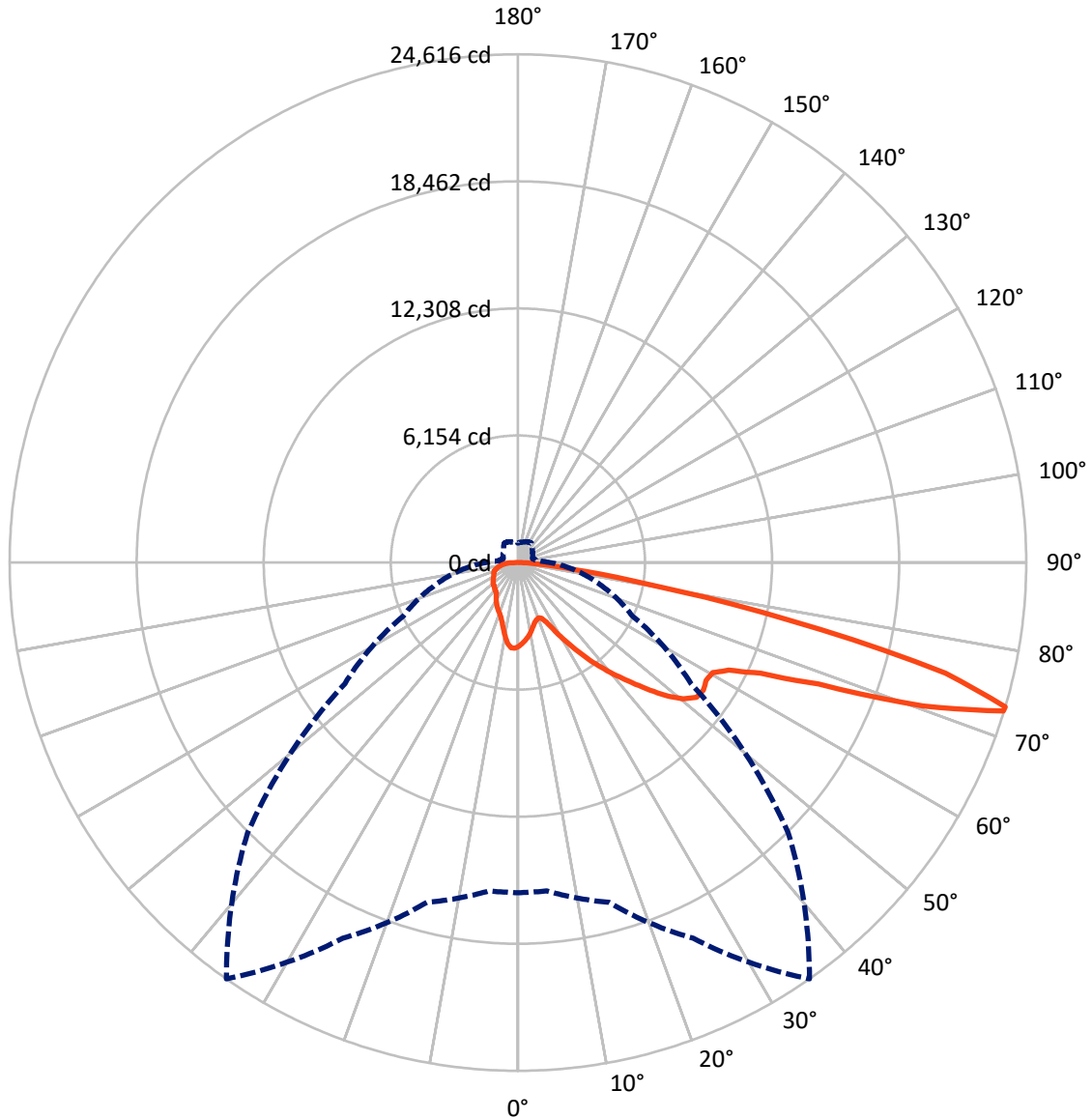
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5130.3	0.0	5130.3
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	21768.1	0.0	21768.1
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	26898.4	0.0	26898.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.5	1.4
10°-20°	917.3	3.4
20°-30°	1482.9	5.5
30°-40°	2486.7	9.2
40°-50°	3833.1	14.3
50°-60°	5142.5	19.1
60°-70°	6850.9	25.5
70°-80°	5225.2	19.4
80°-90°	592.3	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°	26898.4	100.0
0°-180°	26898.4	100.0



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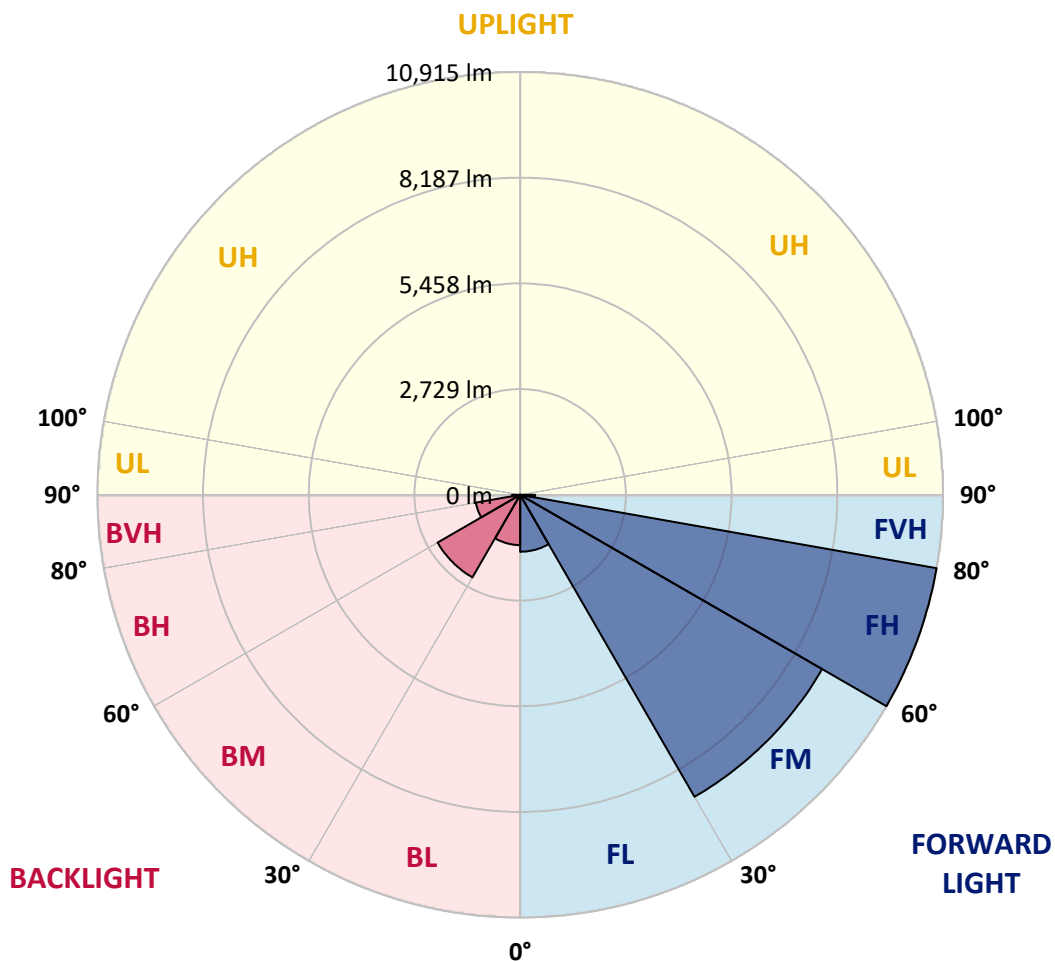
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.6	5.5			
FM (30°-60°)	9000.4	33.5			
FH (60°-80°)	10915.4	40.6			G4/12000
FVH (80°-90°)	382.8	1.4			G3/500
BL (0°-30°)	1298.2	4.8	B3/2500		
BM (30°-60°)	2462.0	9.2	B2/2500		
BH (60°-80°)	1160.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	209.4	0.8			G2/225
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°	55°	65°	75°	85°	90°
0°	4059.8	4059.8	4059.8	4059.8	4059.8	4059.8	4059.8	4059.8	4059.8	4059.8	4059.8
2.5°	3899.6	3907.4	3898.3	3910.0	3929.3	3950.0	3964.2	3984.9	4008.1	4040.4	4048.2
5°	3716.2	3727.8	3727.8	3748.5	3786.0	3819.6	3850.6	3884.1	3933.2	3988.8	4010.7
7.5°	3514.7	3521.2	3532.8	3563.8	3618.0	3665.8	3709.8	3764.0	3831.2	3904.8	3943.6
10°	3271.9	3280.9	3299.0	3342.9	3416.5	3482.4	3545.7	3620.6	3705.9	3797.6	3846.7
12.5°	3100.1	3097.5	3105.2	3137.5	3202.1	3282.2	3373.9	3469.5	3574.1	3681.3	3740.8
15°	3041.9	3027.7	2998.0	2990.3	3025.2	3105.2	3211.2	3328.7	3454.0	3583.2	3656.8
17.5°	3078.1	3053.6	2972.2	2912.8	2907.6	2968.3	3080.7	3212.5	3357.1	3514.7	3606.4
20°	3305.5	3247.3	3047.1	2908.9	2861.1	2890.8	2989.0	3128.5	3299.0	3508.3	3625.8
22.5°	3849.3	3764.0	3339.0	3082.0	2920.5	2884.4	2958.0	3106.5	3305.5	3588.3	3738.2
25°	4641.1	4519.7	3840.2	3513.4	3180.2	2987.7	3004.5	3156.9	3397.2	3774.3	3955.2
27.5°	5266.3	5187.5	4495.1	4121.8	3652.9	3266.7	3155.6	3283.5	3584.5	4079.2	4263.9
30°	5638.3	5590.5	5195.2	4811.6	4256.1	3711.0	3445.0	3521.2	3877.7	4501.6	4654.0
32.5°	6069.7	6041.3	5847.5	5494.9	4907.2	4294.9	3903.5	3876.4	4270.4	5009.2	5079.0
35°	6516.6	6507.6	6393.9	6140.7	5606.0	5064.7	4511.9	4328.5	4697.9	5536.2	5492.3
37.5°	6932.5	6917.0	6851.2	6703.9	6337.1	5891.4	5131.9	4792.2	5159.0	6040.0	5844.9
40°	7698.5	7577.1	7351.1	7240.0	7075.9	6587.7	5624.1	5224.9	5637.0	6520.5	6149.8
42.5°	8632.4	8434.8	8013.7	7861.3	7838.0	7136.6	5959.9	5644.7	6118.8	6997.1	6449.4
45°	9367.4	9181.4	8818.4	8626.0	8711.2	7633.9	6297.0	6092.9	6614.8	7497.0	6758.2
47.5°	10151.5	9859.5	9379.0	9437.1	9623.1	8104.1	6640.6	6574.7	7158.6	8056.3	7141.8
50°	10179.9	9956.4	9745.9	10093.3	10382.7	8536.8	7070.8	7079.8	7823.8	8760.3	7652.0
52.5°	9589.6	9541.8	9876.3	10422.7	10839.9	8879.1	7560.3	7601.6	8675.0	9568.9	8212.6
55°	9382.9	9328.6	9714.9	10307.7	10901.9	9162.0	8091.2	8166.1	9704.5	10421.4	8759.0
57.5°	9886.7	9766.5	9792.4	10253.5	10750.8	9472.0	8669.9	8821.0	10823.1	11166.7	9110.3
60°	11294.6	11037.6	10549.3	10537.7	10832.2	9937.0	9339.0	9523.7	11985.7	11523.2	8973.4
62.5°	13269.6	13012.6	12098.0	11502.6	11458.7	10704.3	10160.5	10209.6	12657.3	11040.1	8137.7
65°	15407.4	15177.4	14155.7	13314.8	12909.2	11975.3	11115.1	10515.7	12437.8	9711.0	6675.5
67.5°	18002.4	17755.7	16877.3	16101.0	15710.9	14026.5	11785.4	10222.5	11044.0	7522.8	4798.7
70°	19817.2	19565.3	19219.2	19848.2	20802.8	16985.8	11872.0	9030.3	8248.8	5000.2	2888.2
72.5°	17449.5	17332.0	17963.6	20612.9	24588.8	18781.3	10731.4	6574.7	4790.9	2654.4	1671.5
73°	15987.3	15961.5	17038.8	20076.9	24615.9	18504.9	10231.5	6111.0	4108.9	2348.3	1528.1
75°	7219.3	7427.3	9788.5	15335.0	21386.6	15248.5	7201.2	3505.7	2321.2	1622.4	1153.5
77.5°	1734.8	1807.1	3062.6	7282.6	13506.0	9087.1	3262.8	1733.5	1484.2	1145.7	842.2
80°	738.9	763.4	1179.3	2690.6	6359.0	3659.4	1503.5	1161.2	1026.9	799.6	590.3
82.5°	410.8	436.6	669.1	1220.7	2566.6	1247.8	917.1	808.6	675.6	481.8	383.6
85°	232.5	246.7	391.4	682.0	1087.6	501.2	549.0	537.3	381.1	248.0	188.6
87.5°	109.8	118.8	188.6	316.5	426.3	196.3	279.0	307.4	239.0	151.1	98.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4059.8	4059.8	4059.8	4059.8	4059.8	4059.8	4059.8	4059.8	4059.8	4059.8
2.5°	4057.2	4080.5	4107.6	4121.8	4134.7	4150.2	4165.7	4165.7	4168.3	4169.6
5°	4028.8	4076.6	4119.2	4137.3	4141.2	4141.2	4137.3	4116.6	4098.6	4106.3
7.5°	3969.4	4039.1	4075.3	4068.8	4019.8	3962.9	3915.1	3857.0	3827.3	3822.1
10°	3884.1	3964.2	3970.7	3906.1	3784.7	3663.3	3562.5	3464.3	3417.8	3406.2
12.5°	3789.8	3863.5	3822.1	3689.1	3494.0	3317.1	3189.2	3089.7	3045.8	3034.2
15°	3713.6	3764.0	3659.4	3450.1	3204.7	3017.4	2911.5	2837.9	2806.9	2797.8
17.5°	3673.6	3683.9	3492.8	3209.9	2948.9	2792.7	2726.8	2691.9	2680.3	2673.8
20°	3693.0	3620.6	3333.9	2986.4	2739.7	2629.9	2614.4	2605.4	2602.8	2598.9
22.5°	3789.8	3601.3	3187.9	2774.6	2556.3	2508.5	2521.4	2520.1	2517.5	2514.9
25°	3962.9	3618.0	3045.8	2573.1	2402.6	2392.2	2415.5	2415.5	2405.1	2405.1
27.5°	4191.6	3652.9	2886.9	2381.9	2263.1	2264.3	2282.4	2277.3	2265.6	2257.9
30°	4470.6	3674.9	2700.9	2210.1	2132.6	2127.4	2132.6	2110.6	2075.8	2073.2
32.5°	4756.0	3647.8	2485.2	2057.7	1994.4	1982.8	1978.9	1947.9	1907.8	1896.2
35°	5014.4	3548.3	2265.6	1936.3	1862.6	1836.8	1854.9	1844.5	1808.4	1799.3
37.5°	5203.0	3363.6	2068.0	1829.0	1768.3	1761.9	1773.5	1777.4	1734.8	1725.7
40°	5329.5	3113.0	1898.8	1738.6	1750.3	1725.7	1687.0	1659.8	1646.9	1643.0
42.5°	5431.6	2852.1	1756.7	1696.0	1754.1	1683.1	1599.1	1555.2	1578.5	1588.8
45°	5549.1	2597.6	1637.9	1643.0	1734.8	1634.0	1538.4	1495.8	1504.8	1507.4
47.5°	5710.6	2287.6	1510.0	1557.8	1670.2	1600.4	1501.0	1440.2	1397.6	1378.2
50°	5934.1	1920.8	1376.9	1462.2	1606.9	1575.9	1442.8	1378.2	1299.4	1281.4
52.5°	6089.1	1578.5	1267.2	1382.1	1550.0	1526.8	1396.3	1312.4	1229.7	1214.2
55°	6005.1	1311.1	1171.6	1293.0	1475.1	1466.1	1357.6	1245.2	1180.6	1167.7
57.5°	5585.3	1141.9	1097.9	1209.0	1383.4	1414.4	1305.9	1188.4	1141.9	1132.8
60°	4784.4	1035.9	1051.4	1152.2	1308.5	1362.7	1254.2	1157.4	1126.4	1119.9
62.5°	3712.3	964.9	1016.6	1110.9	1250.4	1326.6	1225.8	1153.5	1141.9	1134.1
65°	2659.6	908.1	979.1	1069.5	1197.4	1293.0	1215.5	1148.3	1150.9	1144.4
67.5°	1807.1	857.7	933.9	1023.0	1145.7	1263.3	1201.3	1130.2	1162.5	1154.8
70°	1264.6	808.6	880.9	963.6	1081.2	1221.9	1175.4	1103.1	1100.5	1069.5
72.5°	986.9	744.0	808.6	880.9	998.5	1163.8	1123.8	1042.4	999.8	967.5
73°	941.6	728.5	790.5	862.9	980.4	1149.6	1109.6	1025.6	977.8	948.1
75°	778.9	661.3	718.2	782.8	902.9	1082.4	1039.8	949.4	888.7	870.6
77.5°	612.3	565.8	620.0	678.1	795.7	984.3	936.5	849.9	816.4	800.9
80°	453.4	468.9	516.7	568.3	689.8	879.6	837.0	750.5	900.3	862.9
82.5°	319.0	355.2	399.1	445.6	578.7	777.6	725.9	636.8	658.8	547.7
85°	188.6	232.5	273.8	313.9	417.2	644.6	599.3	507.6	415.9	396.6
87.5°	109.8	129.2	140.8	182.1	286.8	485.7	422.4	375.9	215.7	146.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)