

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: P300387

Luminaire Tested: **GLNA-AF-06-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300387  
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-06-LED-E1-T4FT-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27893.4 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 249  
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

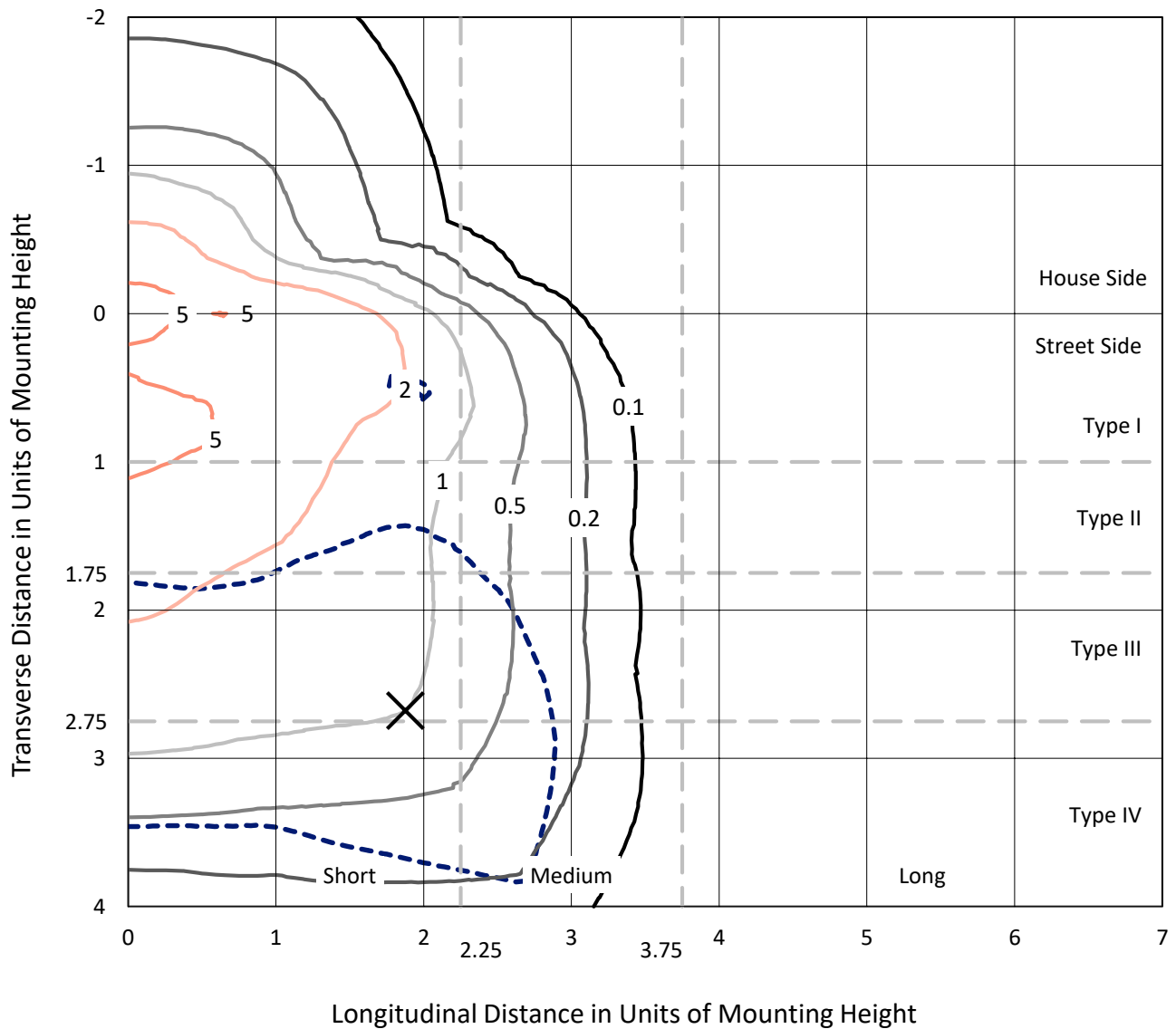


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### Iso-Footcandle Lines of Horizontal Illumination

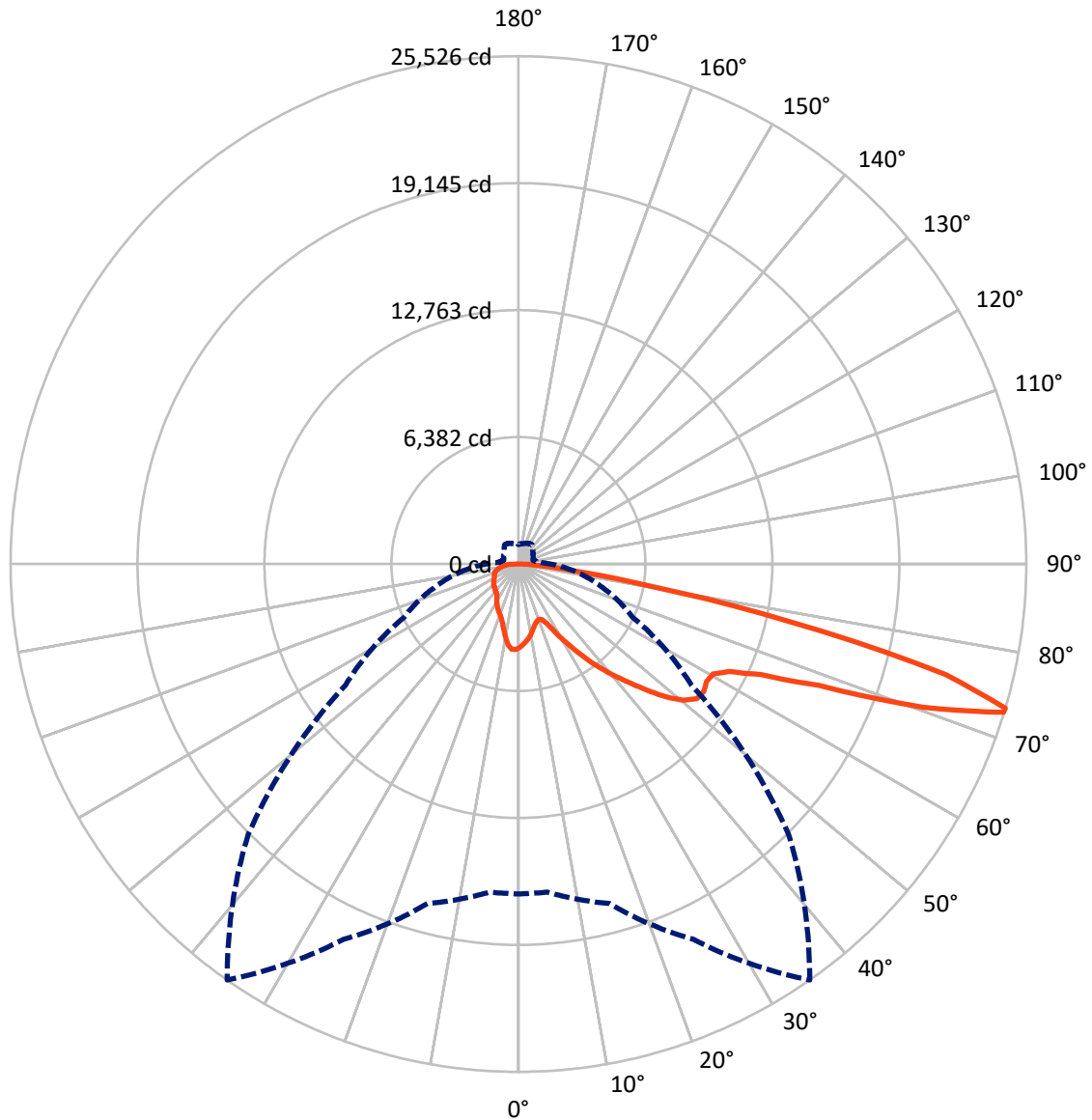
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	5320.0	0.0	5320.0
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	22573.3	0.0	22573.3
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	27893.4	0.0	27893.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.1	1.4
10°-20°	951.2	3.4
20°-30°	1537.8	5.5
30°-40°	2578.7	9.2
40°-50°	3974.9	14.3
50°-60°	5332.8	19.1
60°-70°	7104.3	25.5
70°-80°	5418.4	19.4
80°-90°	614.2	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°	27893.4	100.0
0°-180°	27893.4	100.0

**Coefficient of Utilization**



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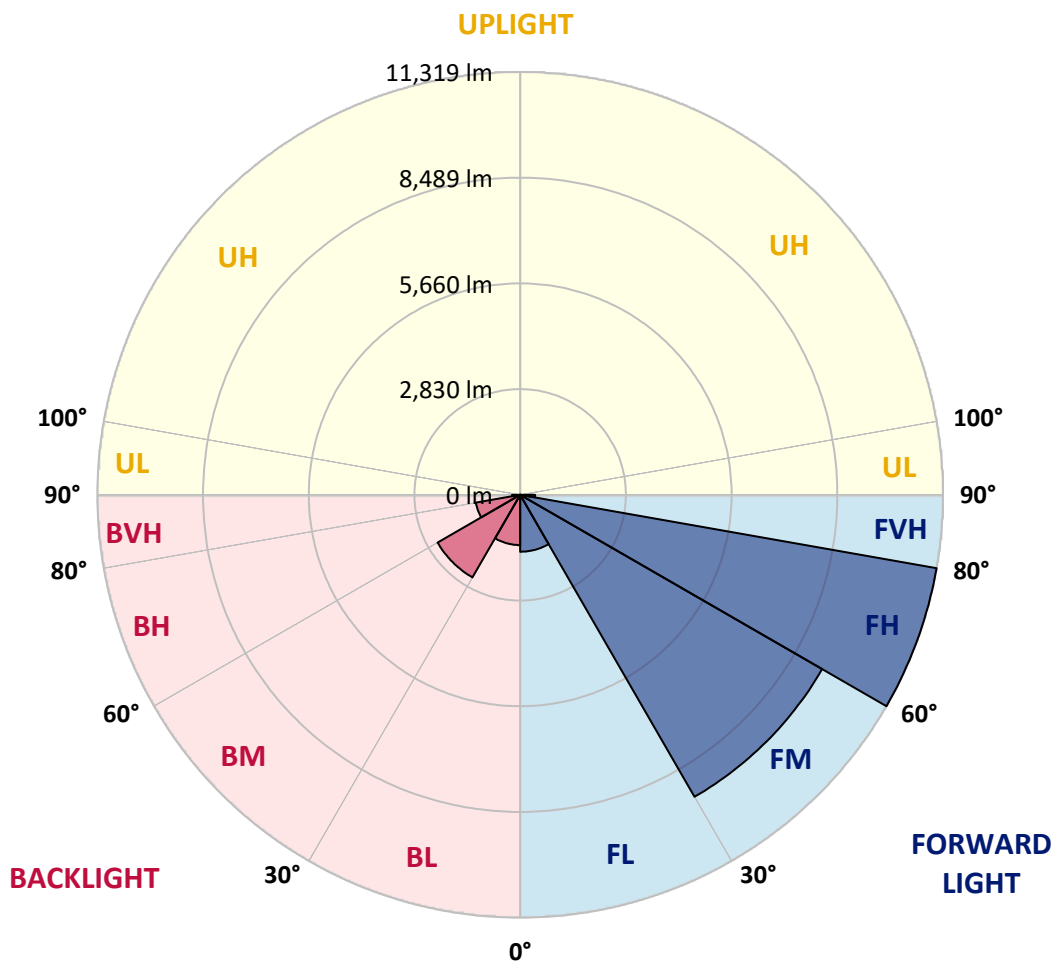
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1523.9	5.5			
FM (30°-60°)	9333.3	33.5			
FH (60°-80°)	11319.1	40.6			G4/12000
FVH (80°-90°)	397.0	1.4			G3/500
BL (0°-30°)	1346.2	4.8	B3/2500		
BM (30°-60°)	2553.0	9.2	B3/5000		
BH (60°-80°)	1203.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	217.2	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°	4210.0	4210.0	4210.0	4210.0	4210.0	4210.0	4210.0	4210.0	4210.0	4210.0	4210.0
2.5°	4043.9	4051.9	4042.5	4054.6	4074.7	4096.1	4110.9	4132.3	4156.4	4189.9	4197.9
5°	3853.7	3865.7	3865.7	3887.2	3926.0	3960.8	3993.0	4027.8	4078.7	4136.3	4159.1
7.5°	3644.7	3651.4	3663.5	3695.6	3751.9	3801.4	3847.0	3903.2	3972.9	4049.2	4089.4
10°	3392.9	3402.3	3421.0	3466.6	3542.9	3611.2	3676.9	3754.6	3843.0	3938.1	3989.0
12.5°	3214.7	3212.1	3220.1	3253.6	3320.6	3403.6	3498.7	3597.8	3706.3	3817.5	3879.1
15°	3154.5	3139.7	3108.9	3100.9	3137.1	3220.1	3329.9	3451.8	3581.8	3715.7	3792.1
17.5°	3192.0	3166.5	3082.1	3020.5	3015.2	3078.1	3194.7	3331.3	3481.3	3644.7	3739.8
20°	3427.7	3367.4	3159.8	3016.5	2966.9	2997.7	3099.6	3244.2	3421.0	3638.0	3759.9
22.5°	3991.6	3903.2	3462.5	3196.0	3028.6	2991.1	3067.4	3221.4	3427.7	3721.1	3876.4
25°	4812.7	4686.8	3982.3	3643.4	3297.8	3098.2	3115.6	3273.7	3522.8	3914.0	4101.5
27.5°	5461.0	5379.3	4661.4	4274.3	3788.0	3387.5	3272.3	3405.0	3717.0	4230.1	4421.6
30°	5846.8	5797.3	5387.4	4989.6	4413.6	3848.3	3572.4	3651.4	4021.1	4668.1	4826.1
32.5°	6294.2	6264.7	6063.8	5698.1	5088.7	4453.8	4047.9	4019.8	4428.3	5194.5	5266.8
35°	6757.7	6748.3	6630.4	6367.9	5813.3	5252.1	4678.8	4488.6	4871.7	5741.0	5695.5
37.5°	7189.0	7172.9	7104.6	6951.9	6571.5	6109.4	5321.7	4969.5	5349.9	6263.4	6061.1
40°	7983.3	7857.4	7623.0	7507.8	7337.7	6831.3	5832.1	5418.2	5845.5	6761.7	6377.3
42.5°	8951.7	8746.8	8310.1	8152.1	8127.9	7400.6	6180.3	5853.5	6345.1	7255.9	6688.0
45°	9713.9	9521.0	9144.6	8945.0	9033.4	7916.3	6530.0	6318.3	6859.5	7774.3	7008.1
47.5°	10527.0	10224.2	9725.9	9786.2	9979.1	8403.9	6886.3	6817.9	7423.4	8354.3	7406.0
50°	10556.4	10324.7	10106.4	10466.7	10766.7	8852.6	7332.3	7341.7	8113.2	9084.3	7935.1
52.5°	9944.3	9894.7	10241.6	10808.2	11240.9	9207.6	7840.0	7882.8	8995.9	9922.8	8516.4
55°	9730.0	9673.7	10074.2	10689.0	11305.2	9500.9	8390.5	8468.2	10063.5	10806.9	9083.0
57.5°	10252.4	10127.8	10154.6	10632.8	11148.5	9822.4	8990.6	9147.3	11223.5	11579.8	9447.3
60°	11712.4	11445.8	10939.5	10927.5	11232.9	10304.6	9684.4	9876.0	12429.0	11949.5	9305.3
62.5°	13760.4	13493.9	12545.5	11928.0	11882.5	11100.2	10536.3	10587.2	13125.5	11448.5	8438.7
65°	15977.3	15738.9	14679.3	13807.3	13386.7	12418.3	11526.2	10904.7	12897.8	10070.2	6922.4
67.5°	18668.3	18412.5	17501.6	16696.6	16292.1	14545.4	12221.4	10600.6	11452.5	7801.1	4976.2
70°	20550.3	20289.1	19930.1	20582.4	21572.3	17614.1	12311.1	9364.3	8553.9	5185.1	2995.1
72.5°	18095.0	17973.1	18628.1	21375.4	25498.3	19476.0	11128.4	6817.9	4968.1	2752.6	1733.3
73°	16578.7	16551.9	17669.0	20819.5	25526.4	19189.3	10610.0	6337.1	4260.9	2435.2	1584.6
75°	7486.3	7702.0	10150.6	15902.3	22177.7	15812.5	7467.6	3635.3	2407.0	1682.4	1196.2
77.5°	1798.9	1873.9	3175.9	7552.0	14005.6	9423.2	3383.5	1797.6	1539.1	1188.1	873.3
80°	766.2	791.6	1222.9	2790.1	6594.2	3794.7	1559.2	1204.2	1064.9	829.1	612.1
82.5°	426.0	452.7	693.8	1265.8	2661.5	1293.9	951.0	838.5	700.5	499.6	397.8
85°	241.1	255.8	405.9	707.2	1127.8	519.7	569.3	557.2	395.1	257.2	195.6
87.5°	113.9	123.2	195.6	328.2	442.0	203.6	289.3	318.8	247.8	156.7	101.8
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°	4210.0	4210.0	4210.0	4210.0	4210.0	4210.0	4210.0	4210.0	4210.0	4210.0
2.5°	4207.3	4231.4	4259.5	4274.3	4287.7	4303.7	4319.8	4319.8	4322.5	4323.8
5°	4177.8	4227.4	4271.6	4290.3	4294.4	4294.4	4290.3	4268.9	4250.2	4258.2
7.5°	4116.2	4188.5	4226.1	4219.4	4168.5	4109.5	4060.0	3999.7	3968.9	3963.5
10°	4027.8	4110.9	4117.6	4050.6	3924.7	3798.8	3694.3	3592.5	3544.3	3532.2
12.5°	3930.0	4006.4	3963.5	3825.5	3623.3	3439.8	3307.2	3204.0	3158.5	3146.4
15°	3851.0	3903.2	3794.7	3577.7	3323.2	3129.0	3019.2	2942.8	2910.7	2901.3
17.5°	3809.5	3820.2	3621.9	3328.6	3058.0	2895.9	2827.6	2791.5	2779.4	2772.7
20°	3829.6	3754.6	3457.2	3096.9	2841.0	2727.2	2711.1	2701.7	2699.0	2695.0
22.5°	3930.0	3734.5	3305.8	2877.2	2650.8	2601.3	2614.7	2613.3	2610.6	2608.0
25°	4109.5	3751.9	3158.5	2668.2	2491.4	2480.7	2504.8	2504.8	2494.1	2494.1
27.5°	4346.6	3788.0	2993.7	2470.0	2346.8	2348.1	2366.9	2361.5	2349.4	2341.4
30°	4635.9	3810.8	2800.8	2291.8	2211.5	2206.1	2211.5	2188.7	2152.5	2149.9
32.5°	4932.0	3782.7	2577.2	2133.8	2068.2	2056.1	2052.1	2019.9	1978.4	1966.4
35°	5199.9	3679.5	2349.4	2007.9	1931.5	1904.7	1923.5	1912.8	1875.3	1865.9
37.5°	5395.4	3488.0	2144.5	1896.7	1833.7	1827.0	1839.1	1843.1	1798.9	1789.5
40°	5526.7	3228.1	1969.0	1802.9	1815.0	1789.5	1749.4	1721.2	1707.8	1703.8
42.5°	5632.5	2957.6	1821.7	1758.7	1819.0	1745.3	1658.3	1612.7	1636.8	1647.6
45°	5754.4	2693.7	1698.5	1703.8	1798.9	1694.4	1595.3	1551.1	1560.5	1563.2
47.5°	5921.8	2372.2	1565.8	1615.4	1731.9	1659.6	1556.5	1493.5	1449.3	1429.2
50°	6153.6	1991.8	1427.9	1516.3	1666.3	1634.2	1496.2	1429.2	1347.5	1328.8
52.5°	6314.3	1636.8	1314.0	1433.2	1607.4	1583.3	1448.0	1360.9	1275.2	1259.1
55°	6227.2	1359.6	1214.9	1340.8	1529.7	1520.3	1407.8	1291.3	1224.3	1210.9
57.5°	5791.9	1184.1	1138.6	1253.8	1434.6	1466.7	1354.2	1232.3	1184.1	1174.7
60°	4961.4	1074.3	1090.3	1194.8	1356.9	1413.1	1300.6	1200.2	1168.0	1161.3
62.5°	3849.7	1000.6	1054.2	1152.0	1296.6	1375.6	1271.2	1196.2	1184.1	1176.1
65°	2758.0	941.7	1015.3	1109.1	1241.7	1340.8	1260.4	1190.8	1193.5	1186.8
67.5°	1873.9	889.4	968.4	1060.9	1188.1	1310.0	1245.7	1172.0	1205.5	1197.5
70°	1311.3	838.5	913.5	999.2	1121.1	1267.1	1218.9	1143.9	1141.2	1109.1
72.5°	1023.4	771.5	838.5	913.5	1035.4	1206.9	1165.3	1081.0	1036.8	1003.3
73°	976.5	755.5	819.8	894.8	1016.7	1192.1	1150.6	1063.5	1014.0	983.2
75°	807.7	685.8	744.7	811.7	936.3	1122.5	1078.3	984.5	921.6	902.8
77.5°	634.9	586.7	642.9	703.2	825.1	1020.7	971.1	881.4	846.5	830.5
80°	470.2	486.2	535.8	589.4	715.3	912.2	868.0	778.2	933.6	894.8
82.5°	330.9	368.4	413.9	462.1	600.1	806.4	752.8	660.4	683.1	567.9
85°	195.6	241.1	284.0	325.5	432.7	668.4	621.5	526.4	431.3	411.2
87.5°	113.9	133.9	146.0	188.9	297.4	503.6	438.0	389.8	223.7	151.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)