

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: P299128

Luminaire Tested: **GLNA-AF-06-LED-E1-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35486.6 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 333  
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

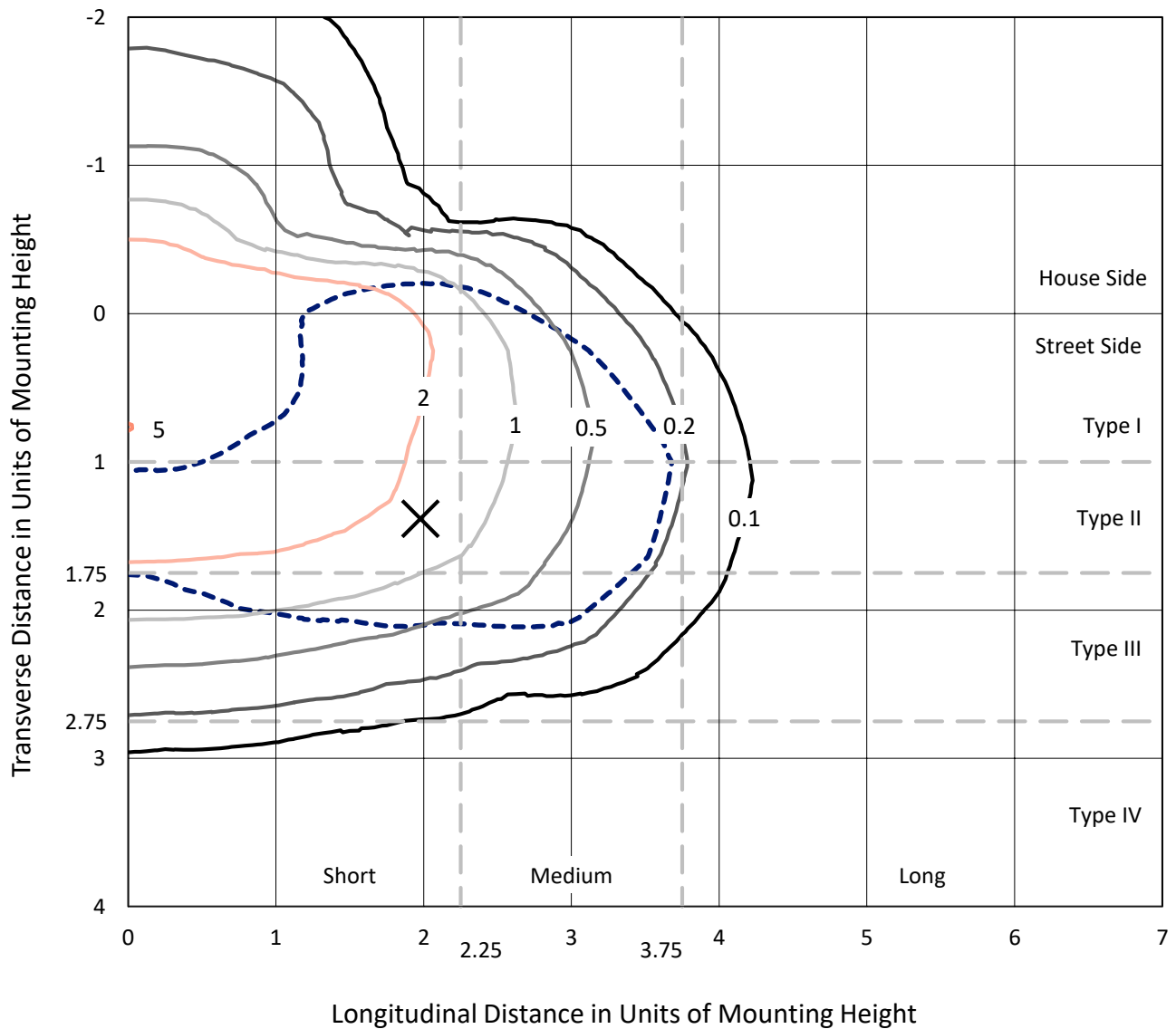


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### Iso-Footcandle Lines of Horizontal Illumination

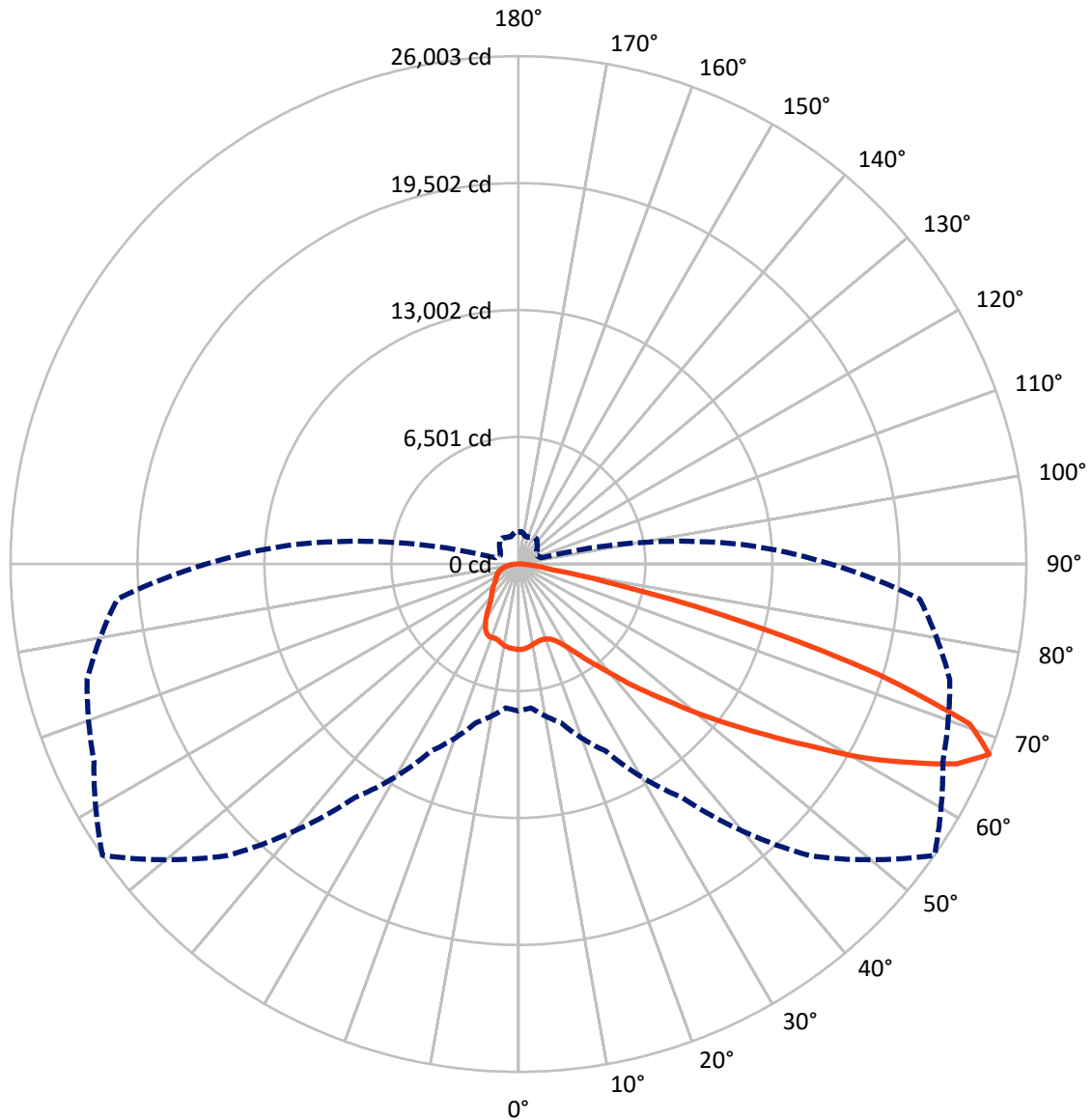
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7665.9	0.0	7665.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	27820.7	0.0	27820.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	35486.6	0.0	35486.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.4	1.2
10°-20°	1156.8	3.3
20°-30°	1937.7	5.5
30°-40°	3186.5	9.0
40°-50°	5363.8	15.1
50°-60°	8442.2	23.8
60°-70°	10074.9	28.4
70°-80°	4326.4	12.2
80°-90°	589.9	1.7
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°	35486.6	100.0
0°-180°	35486.6	100.0



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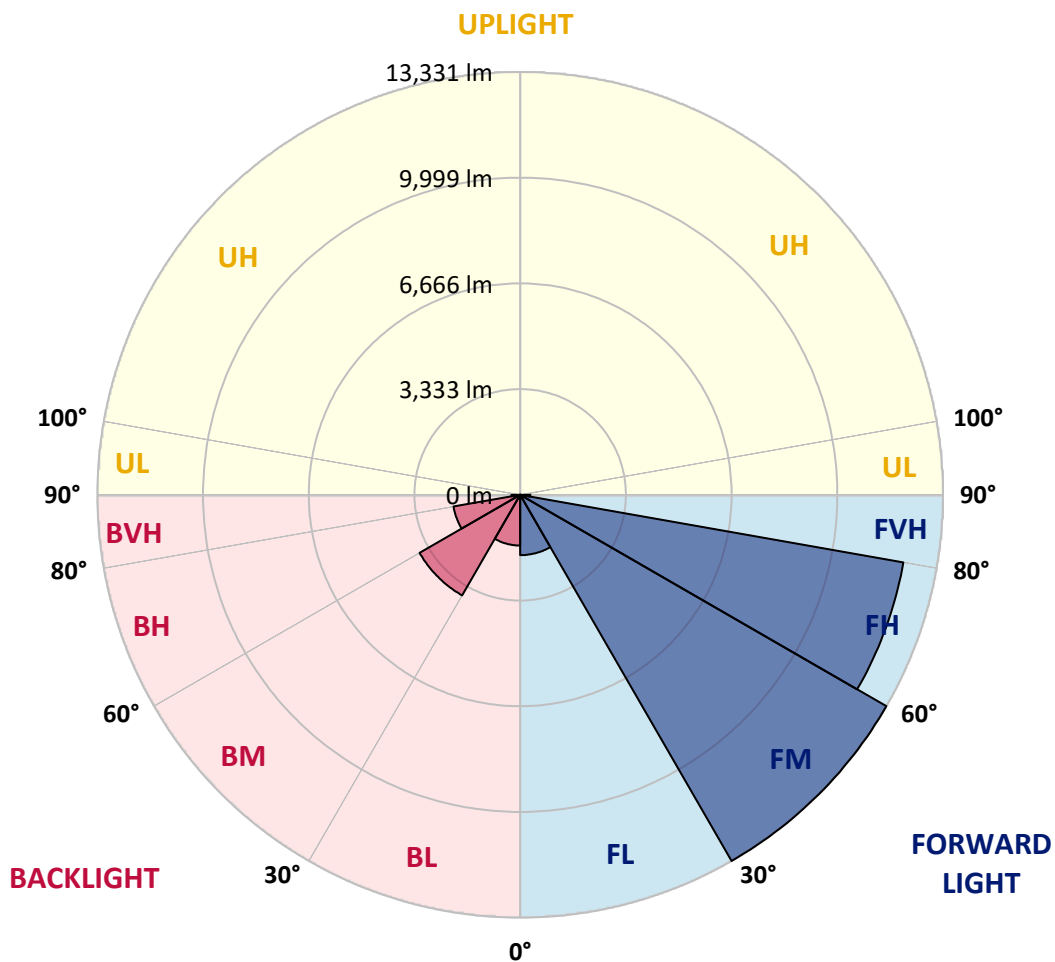
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.2	5.4			
FM (30°-60°)	13331.4	37.6			
FH (60°-80°)	12267.9	34.6			G5
FVH (80°-90°)	319.3	0.9			G3/500
BL (0°-30°)	1600.8	4.5	B3/2500		
BM (30°-60°)	3661.1	10.3	B3/5000		
BH (60°-80°)	2133.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	270.6	0.8			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4375.9	4375.9	4375.9	4375.9	4375.9	4375.9	4375.9	4375.9	4375.9	4375.9	4375.9
2.5°	4338.2	4339.9	4343.3	4357.0	4369.0	4365.6	4367.3	4360.5	4358.7	4348.5	4358.7
5°	4283.3	4288.5	4290.2	4312.5	4326.2	4329.6	4324.5	4315.9	4305.6	4295.3	4300.5
7.5°	4158.2	4171.9	4173.6	4204.5	4226.8	4255.9	4257.6	4259.3	4254.2	4247.3	4257.6
10°	4079.4	4082.8	4081.1	4103.3	4120.5	4153.1	4171.9	4204.5	4218.2	4221.6	4228.5
12.5°	4074.2	4070.8	4065.6	4065.6	4060.5	4074.2	4108.5	4154.8	4187.3	4197.6	4206.2
15°	4129.1	4127.3	4110.2	4084.5	4051.9	4041.6	4070.8	4122.2	4165.1	4187.3	4195.9
17.5°	4252.5	4242.2	4214.8	4156.5	4086.2	4058.8	4062.2	4105.1	4154.8	4183.9	4192.5
20°	4478.7	4478.7	4420.4	4310.7	4185.6	4120.5	4089.6	4115.3	4163.3	4202.8	4214.8
22.5°	4869.5	4872.9	4775.2	4595.3	4384.4	4245.6	4168.5	4163.3	4219.9	4264.5	4278.2
25°	5423.1	5409.4	5272.3	5015.2	4694.7	4465.0	4331.3	4300.5	4348.5	4398.2	4415.3
27.5°	6067.6	6017.9	5855.1	5544.8	5130.0	4794.1	4588.4	4538.7	4585.0	4641.6	4658.7
30°	6705.2	6653.8	6460.1	6120.7	5659.7	5234.6	4939.8	4859.2	4924.4	5004.9	5015.2
32.5°	7342.8	7342.8	7126.9	6730.9	6228.7	5760.8	5407.7	5311.7	5419.7	5517.4	5539.7
35°	8105.6	8109.0	7899.9	7423.4	6883.5	6388.1	5999.0	5928.8	6091.6	6160.2	6213.3
37.5°	9043.1	9062.0	8792.9	8217.0	7625.6	7104.6	6641.8	6545.8	6708.7	6895.5	7066.9
40°	10056.1	10080.1	9783.6	9074.0	8482.7	7937.6	7437.1	7264.0	7534.8	7891.3	8112.4
42.5°	11022.8	11146.2	10860.0	10129.8	9493.9	8930.0	8422.7	8170.7	8510.1	9048.3	9240.3
45°	12419.7	12508.9	12010.1	11348.5	10750.3	10119.5	9447.6	9182.0	9656.8	10335.5	10374.9
47.5°	13350.5	13283.6	13029.9	12618.6	12239.8	11650.2	10638.9	10347.5	10978.3	11777.0	11555.9
50°	13845.8	13866.4	13832.1	13856.1	13869.8	13499.6	12099.2	11699.9	12452.3	13417.3	12908.2
52.5°	14308.6	14171.5	14284.6	14846.8	15525.5	15388.4	13688.1	13271.6	14032.6	15237.6	14337.7
55°	14298.3	14089.2	14457.7	15450.1	16922.5	17080.2	15472.4	14992.5	15703.8	17189.8	15852.9
57.5°	13792.7	13803.0	14370.3	15669.5	17896.0	18670.8	17542.9	16823.0	17476.1	19167.8	17236.1
60°	13096.8	13191.1	14008.6	15633.5	18675.9	19975.1	20083.1	18795.9	19212.4	20965.8	18381.1
62.5°	11974.1	12073.5	13201.3	15259.9	18557.6	21231.5	22379.9	21034.4	21027.5	22055.9	18717.0
65°	10203.5	10174.4	11358.8	13862.9	17565.2	22160.5	24661.2	22969.5	22395.3	22073.1	18041.7
67.5°	7524.5	7394.3	8410.7	10558.3	14600.0	21120.1	26003.3	23977.3	22861.5	20621.3	15978.0
70°	3904.5	3774.3	4597.0	6165.3	9601.9	16483.7	24517.3	23456.3	21831.4	17285.8	12517.4
72.5°	1669.4	1647.2	1981.4	2704.7	4645.0	9507.6	19224.4	20302.5	18732.5	12879.1	8606.1
75°	1122.7	1115.8	1240.9	1474.1	2089.4	3858.2	12030.7	14411.4	13705.3	7985.6	4840.4
77.5°	881.0	872.4	946.1	1059.3	1354.1	1522.0	5339.2	7737.1	7161.2	3476.0	2118.5
80°	689.0	682.2	728.5	790.2	973.6	959.8	1756.9	3078.4	2382.5	1331.8	1030.1
82.5°	543.3	543.3	581.1	582.8	690.7	654.8	917.0	1355.8	1189.5	776.4	630.8
85°	497.1	497.1	536.5	435.4	450.8	413.1	569.1	803.9	754.2	318.8	274.2
87.5°	250.2	243.4	450.8	385.7	245.1	219.4	277.7	389.1	418.2	176.5	137.1
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°	4375.9	4375.9	4375.9	4375.9	4375.9	4375.9	4375.9	4375.9	4375.9	4375.9
2.5°	4355.3	4353.6	4357.0	4358.7	4372.5	4391.3	4399.9	4411.9	4418.7	4415.3
5°	4303.9	4307.3	4321.0	4331.3	4355.3	4386.2	4403.3	4417.0	4429.0	4423.9
7.5°	4261.0	4269.6	4290.2	4298.7	4312.5	4321.0	4319.3	4324.5	4334.7	4322.7
10°	4237.0	4247.3	4262.8	4250.8	4218.2	4171.9	4129.1	4106.8	4113.6	4105.1
12.5°	4213.0	4226.8	4214.8	4158.2	4067.4	4007.4	3974.8	3978.2	3993.7	3997.1
15°	4199.3	4204.5	4153.1	4046.8	3954.2	3945.7	3962.8	3959.4	3961.1	3961.1
17.5°	4199.3	4185.6	4089.6	3983.4	3943.9	3928.5	3875.4	3808.5	3779.4	3769.1
20°	4221.6	4185.6	4069.1	3998.8	3913.1	3781.1	3640.6	3517.2	3462.3	3446.9
22.5°	4288.5	4226.8	4127.3	4005.7	3762.3	3541.2	3318.3	3170.9	3071.5	3054.4
25°	4423.9	4355.3	4242.2	3914.8	3522.3	3206.9	2953.2	2788.7	2689.3	2675.6
27.5°	4660.4	4615.8	4303.9	3714.3	3203.5	2865.8	2631.0	2504.2	2430.5	2425.3
30°	5016.9	4994.6	4273.0	3417.7	2811.0	2535.0	2421.9	2348.2	2293.4	2291.6
32.5°	5586.0	5406.0	4171.9	3056.1	2452.8	2300.2	2253.9	2209.4	2166.5	2166.5
35°	6317.9	5738.5	3979.9	2668.7	2235.1	2169.9	2111.7	2041.4	1984.8	1981.4
37.5°	7178.3	5944.2	3635.4	2356.8	2132.2	2082.5	1996.8	1892.3	1792.9	1775.7
40°	8047.3	6005.9	3150.4	2164.8	2067.1	1995.1	1890.6	1767.1	1671.2	1666.0
42.5°	8844.3	5887.6	2636.2	2032.8	2002.0	1906.0	1796.3	1686.6	1611.2	1609.5
45°	9512.8	5580.8	2204.2	1907.7	1933.4	1825.4	1727.7	1638.6	1580.3	1568.3
47.5°	10141.8	5147.2	1900.8	1775.7	1864.8	1780.9	1698.6	1614.6	1558.0	1549.5
50°	10872.0	4679.3	1688.3	1647.2	1804.9	1765.4	1722.6	1635.2	1540.9	1530.6
52.5°	11756.4	4274.8	1522.0	1534.0	1758.6	1786.0	1784.3	1693.4	1528.9	1515.2
55°	12743.7	3825.7	1396.9	1441.5	1739.7	1823.7	1799.7	1748.3	1539.2	1518.6
57.5°	13715.5	3301.2	1309.5	1371.2	1712.3	1820.3	1726.0	1652.3	1563.2	1534.0
60°	14444.0	2596.7	1242.7	1309.5	1652.3	1763.7	1645.5	1547.8	1558.0	1535.8
62.5°	14492.0	2007.1	1162.1	1256.4	1561.5	1707.2	1592.3	1501.5	1580.3	1559.8
65°	13640.1	1516.9	1085.0	1193.0	1463.8	1671.2	1540.9	1475.8	1626.6	1604.3
67.5°	11483.9	1220.4	1019.8	1127.8	1366.1	1595.7	1494.6	1451.8	1667.7	1628.3
70°	8290.7	1040.4	956.4	1049.0	1278.7	1510.0	1453.5	1408.9	1556.3	1494.6
72.5°	5104.3	901.6	884.4	944.4	1211.8	1420.9	1391.8	1328.4	1402.1	1352.4
75°	2548.7	781.6	803.9	841.6	1117.5	1319.8	1288.9	1225.5	1235.8	1225.5
77.5°	1220.4	668.5	709.6	738.7	995.8	1205.0	1172.4	1107.3	1095.3	1097.0
80°	773.0	558.8	598.2	618.8	889.6	1071.3	1038.7	973.6	1110.7	1030.1
82.5°	483.4	454.2	464.5	502.2	774.7	932.4	889.6	831.3	1001.0	791.9
85°	267.4	317.1	330.8	363.4	596.5	779.9	737.0	663.3	594.8	584.5
87.5°	159.4	188.5	193.7	217.7	401.1	563.9	498.8	473.1	392.5	390.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)