

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: P301243

Luminaire Tested: **GLNA-AF-08-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-T3R-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30970.9 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

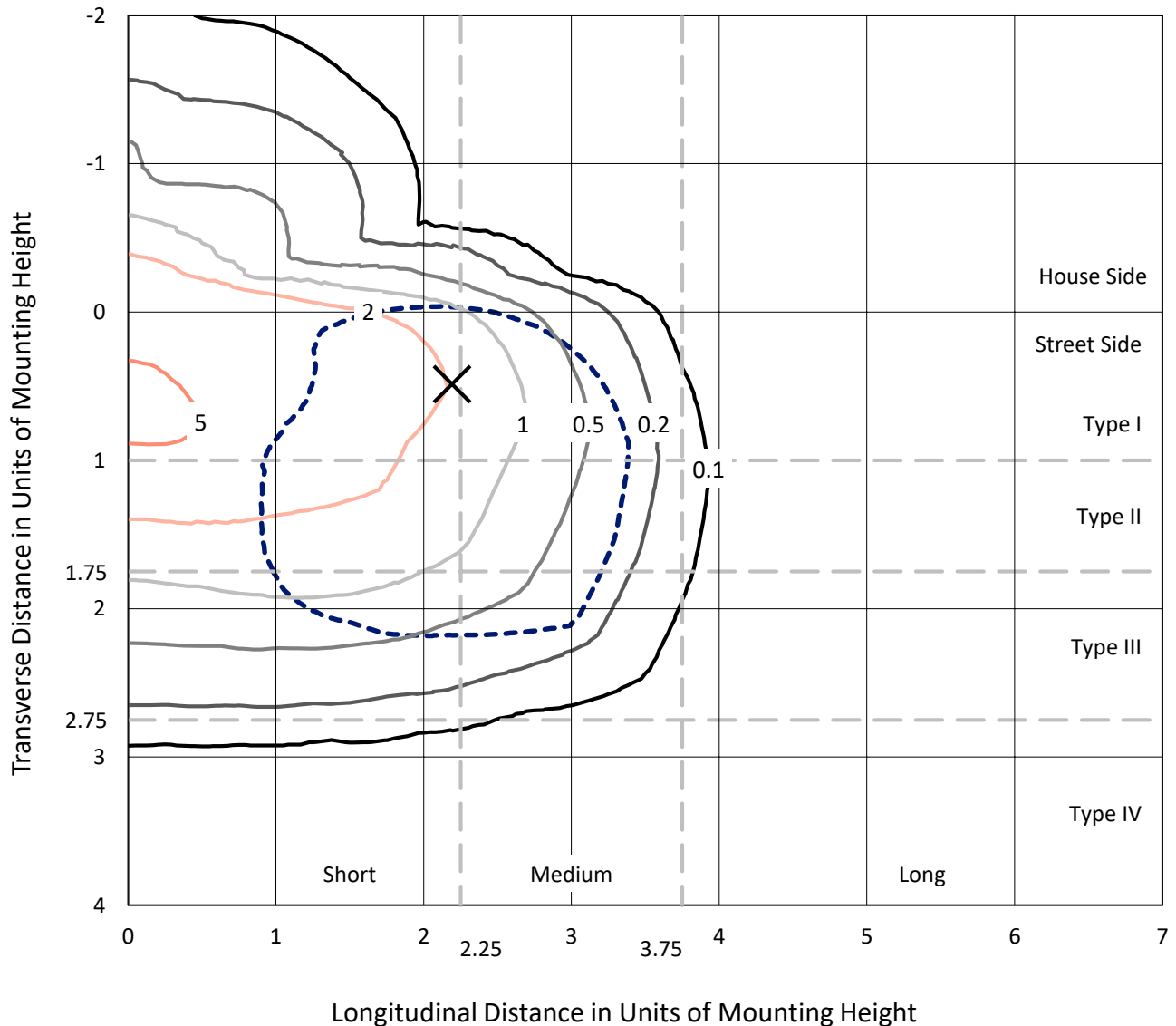


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Iso-Footcandle Lines of Horizontal Illumination

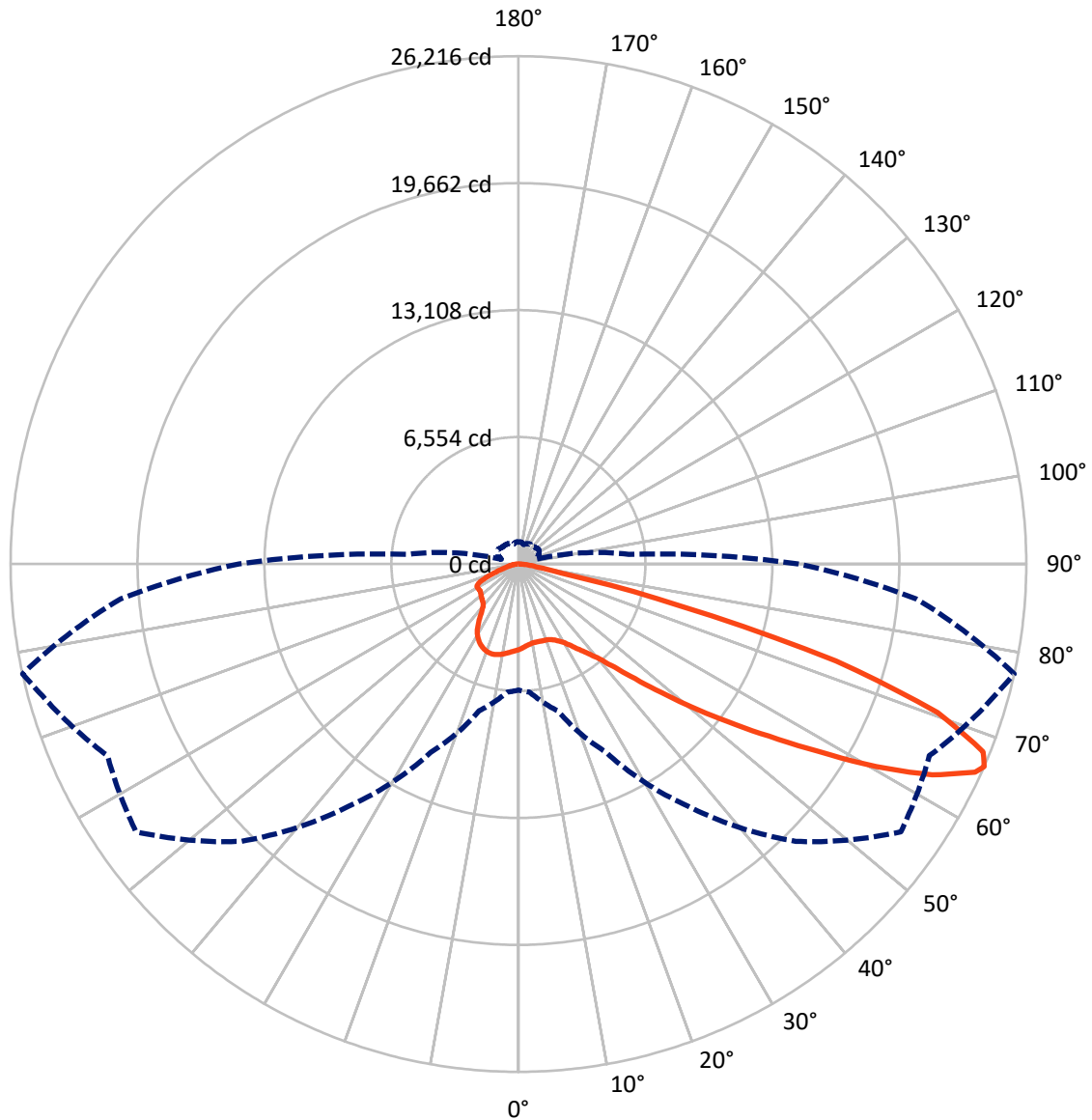
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5291.2	0.0	5291.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	25679.7	0.0	25679.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	30970.9	0.0	30970.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.3	1.3
10°-20°	1112.4	3.6
20°-30°	1898.5	6.1
30°-40°	3039.2	9.8
40°-50°	4695.2	15.2
50°-60°	6659.4	21.5
60°-70°	8908.5	28.8
70°-80°	3868.8	12.5
80°-90°	394.5	1.3
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°	30970.9	100.0
0°-180°	30970.9	100.0



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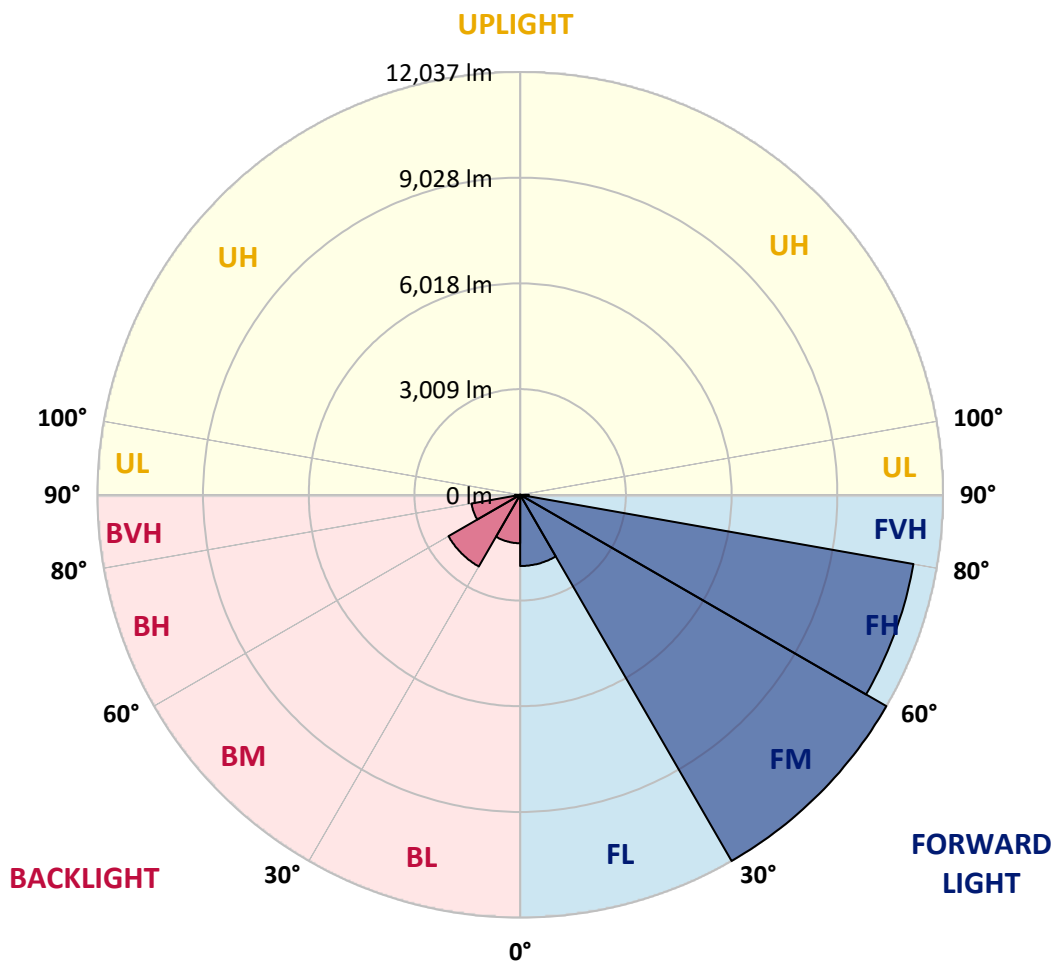
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2027.2	6.5			
FM	(30°-60°)	12036.9	38.9			
FH	(60°-80°)	11368.2	36.7			G4/12000
FVH	(80°-90°)	247.4	0.8			G3/500
BL	(0°-30°)	1378.0	4.4	B3/2500		
BM	(30°-60°)	2356.9	7.6	B2/2500		
BH	(60°-80°)	1409.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	147.1	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5
2.5°	3904.4	3930.5	3952.7	3973.0	4013.8	4081.2	4158.7	4221.6	4312.4	4330.2	4378.5
5°	3545.9	3545.9	3563.2	3594.2	3649.6	3750.6	3856.1	3996.5	4194.1	4240.7	4369.6
7.5°	3371.8	3373.1	3383.3	3409.5	3457.7	3549.9	3665.5	3831.3	4098.9	4176.4	4395.7
10°	3436.0	3421.4	3399.3	3386.4	3393.5	3447.6	3557.4	3741.8	4040.4	4139.6	4454.7
12.5°	3795.8	3768.3	3692.1	3591.1	3494.5	3455.1	3519.3	3699.2	4015.6	4131.2	4532.2
15°	4384.2	4372.7	4230.5	4021.3	3787.4	3591.1	3547.2	3683.3	4018.2	4141.4	4624.4
17.5°	5121.9	5105.5	4918.6	4614.2	4232.2	3850.3	3645.2	3696.6	4028.4	4158.7	4713.4
20°	5866.7	5816.7	5615.1	5252.2	4761.7	4202.6	3807.8	3730.2	4041.7	4177.7	4807.3
22.5°	6422.8	6381.6	6200.4	5847.7	5282.8	4611.1	4025.8	3788.7	4084.3	4233.6	4922.5
25°	6911.5	6914.2	6734.3	6393.6	5809.6	5044.4	4306.7	3945.1	4192.4	4347.4	5080.7
27.5°	7515.9	7480.9	7312.5	6974.4	6330.6	5481.7	4646.1	4160.5	4353.6	4510.0	5288.5
30°	8238.5	8213.7	8019.2	7635.9	6908.4	5951.4	5033.8	4410.4	4561.4	4723.6	5560.6
32.5°	9088.8	9077.2	8875.2	8382.1	7575.7	6504.8	5489.2	4741.3	4871.6	5040.0	5951.4
35°	10087.0	10088.3	9850.0	9257.1	8305.9	7148.5	6005.4	5167.1	5249.1	5424.5	6417.0
37.5°	10701.6	10776.0	10686.9	10082.6	9132.6	7868.5	6675.8	5732.0	5679.3	5856.5	6915.9
40°	10833.1	10924.0	11206.2	10899.2	10057.8	8661.6	7270.0	6274.8	6209.2	6425.5	7558.4
42.5°	10648.8	10774.7	11371.9	11588.1	11039.6	9639.1	8068.8	7081.2	6997.9	7289.0	8357.3
45°	10538.9	10632.9	11323.6	11947.0	11891.2	10744.1	9086.1	8093.6	8063.1	8445.0	9279.3
47.5°	10348.9	10433.9	11098.1	12030.3	12391.9	11756.5	10308.1	9332.0	9391.8	9892.5	10319.6
50°	10451.2	10486.2	10846.4	11818.1	12536.8	12498.7	11673.2	10765.8	10970.9	11595.7	11497.8
52.5°	10436.6	10527.4	10817.2	11469.8	12555.8	12956.8	13017.9	12365.3	12797.3	13514.2	12804.4
55°	8437.9	8604.5	10473.4	11382.1	12622.7	13405.6	14215.1	14051.2	14855.8	15691.4	14279.4
57.5°	8057.3	8162.7	9198.6	11566.4	12979.8	14263.4	15546.6	15906.8	17252.8	18223.2	16076.5
60°	7982.4	8112.7	9185.4	11792.0	13704.3	15660.9	17520.9	18153.2	20169.6	21232.1	18160.3
62.5°	7749.8	7890.3	9099.0	11762.3	14733.1	17594.0	20048.2	20541.3	22935.3	23968.5	19903.3
65°	7012.5	7144.1	8395.4	11290.0	15426.9	19657.4	23038.9	22730.6	25118.7	25895.4	20772.2
66°	6507.4	6636.4	7840.6	10733.9	15265.7	20242.7	24098.8	23408.0	25607.4	26216.2	20602.5
67.5°	5584.1	5685.1	6763.5	9488.4	14409.6	20406.6	24989.8	23917.1	25658.4	25873.7	19632.6
70°	3528.2	3557.4	4395.7	6550.0	10908.0	17697.7	23633.1	22653.0	23542.7	22960.1	16458.4
72.5°	1530.8	1520.6	2110.4	3331.9	6175.6	11875.3	19117.3	18691.5	18467.7	17139.0	11521.2
75°	851.6	863.6	1096.2	1546.8	2509.6	5833.1	12505.8	11967.4	10104.3	8622.2	5224.3
77.5°	683.2	699.6	908.7	1097.5	1126.7	2034.2	5852.1	4761.7	2866.7	2300.4	1451.5
80°	540.1	569.3	793.1	854.7	759.4	838.3	1890.6	1511.8	1134.3	1040.3	752.3
82.5°	427.1	447.9	680.6	646.9	531.2	564.9	905.6	882.6	737.7	671.7	434.7
85°	307.5	345.2	559.2	487.4	348.3	380.6	601.3	576.4	422.7	345.2	191.9
87.5°	125.8	163.9	395.2	323.4	194.5	177.2	300.0	282.2	200.3	146.2	95.3
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°	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5
2.5°	4409.0	4444.0	4489.7	4517.6	4532.2	4542.4	4558.3	4557.0	4561.4	4562.8	4568.5
5°	4438.3	4496.8	4562.8	4580.5	4580.5	4564.1	4548.1	4521.6	4511.4	4508.7	4511.4
7.5°	4514.5	4578.7	4635.9	4615.5	4571.6	4506.9	4423.6	4350.5	4311.1	4297.8	4295.2
10°	4611.1	4688.6	4712.1	4634.5	4505.6	4350.5	4185.3	4065.2	3996.5	3977.5	3971.7
12.5°	4728.0	4801.1	4769.2	4605.3	4366.5	4116.6	3888.0	3696.6	3553.0	3507.8	3504.7
15°	4857.0	4914.1	4801.1	4514.5	4158.7	3790.1	3383.3	3052.8	2874.2	2817.1	2812.6
17.5°	4977.0	5006.3	4782.1	4356.3	3853.0	3256.1	2716.0	2461.3	2400.1	2414.8	2417.4
20°	5079.4	5079.4	4717.8	4129.4	3371.8	2552.1	2210.9	2206.9	2250.8	2294.7	2303.5
22.5°	5191.9	5124.6	4605.3	3809.1	2689.5	2088.2	2038.6	2079.3	2129.0	2177.3	2184.8
25°	5331.1	5161.4	4448.5	3323.5	2114.3	1896.4	1915.4	1949.1	1973.9	2004.9	2009.3
27.5°	5486.1	5207.9	4242.4	2654.5	1835.2	1776.7	1791.3	1802.9	1799.8	1811.7	1814.4
30°	5671.8	5262.4	3959.7	2074.9	1719.6	1673.9	1647.8	1637.6	1637.6	1656.7	1663.7
32.5°	5920.8	5342.6	3554.3	1778.1	1663.7	1600.8	1516.2	1478.1	1492.7	1557.0	1571.6
35°	6194.6	5429.0	3005.8	1677.0	1652.2	1567.2	1435.6	1365.1	1366.9	1426.7	1445.7
37.5°	6492.8	5538.9	2404.1	1658.0	1678.4	1568.9	1393.0	1296.4	1257.0	1257.0	1264.5
40°	6874.7	5651.4	1946.4	1671.3	1734.2	1586.2	1371.3	1242.4	1131.2	1134.3	1140.0
42.5°	7372.3	5748.0	1700.5	1698.7	1801.5	1609.7	1369.5	1170.6	1074.0	1140.0	1199.8
45°	7925.7	5796.3	1592.0	1724.0	1855.6	1624.3	1346.5	1159.1	1081.5	1277.4	1391.7
47.5°	8562.0	5768.4	1532.1	1732.4	1868.9	1624.3	1319.9	1187.0	1132.5	1479.4	1612.8
50°	9260.2	5688.2	1473.7	1715.1	1864.5	1621.2	1344.7	1214.5	1151.5	1514.4	1606.6
52.5°	10081.3	5620.8	1412.1	1677.0	1833.4	1605.3	1374.0	1202.9	1091.7	1377.1	1441.3
55°	11017.5	5639.9	1343.4	1623.0	1785.1	1574.7	1363.8	1156.0	1028.8	1213.1	1252.6
57.5°	12214.7	5866.7	1261.4	1554.3	1719.6	1523.3	1327.4	1134.3	1009.8	1100.6	1124.1
60°	13550.5	6261.5	1159.1	1485.2	1637.6	1441.3	1299.5	1144.5	1018.6	1091.7	1103.3
62.5°	14531.0	6491.5	1071.4	1384.2	1526.4	1350.5	1264.5	1157.3	1042.1	1122.3	1119.6
65°	14797.3	6114.0	961.5	1236.6	1375.7	1255.7	1220.2	1171.9	1052.3	1147.1	1134.3
66°	14424.3	5707.2	913.2	1167.9	1299.5	1208.7	1198.5	1170.6	1047.9	1150.2	1128.1
67.5°	13518.6	4872.9	829.9	1066.9	1178.1	1138.7	1163.5	1157.3	1035.9	1147.1	1116.5
70°	11025.0	3324.8	709.8	888.4	980.5	1002.2	1096.2	1110.8	997.8	1096.2	1028.8
72.5°	7703.3	2025.3	627.8	689.4	793.1	854.7	1004.0	1046.1	946.8	957.0	892.8
75°	3722.7	1075.8	569.3	534.3	615.9	714.2	892.8	958.4	866.2	800.6	777.2
77.5°	1160.4	657.1	483.0	430.2	483.0	576.4	746.1	840.1	771.4	670.4	661.5
80°	623.4	483.0	371.7	345.2	381.9	452.4	586.6	700.9	662.8	601.3	537.0
82.5°	411.2	313.3	275.1	267.6	291.1	345.2	436.0	580.9	580.9	515.3	374.8
85°	212.2	191.9	188.7	188.7	203.4	230.0	296.9	447.9	477.2	272.0	225.5
87.5°	105.5	109.9	102.3	106.8	114.3	112.5	141.8	225.5	269.4	165.3	137.4
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)