

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: P302865

Luminaire Tested: **GLNA-AF-08-LED-E1-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302865
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-08-LED-E1-T4W-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36892.5 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

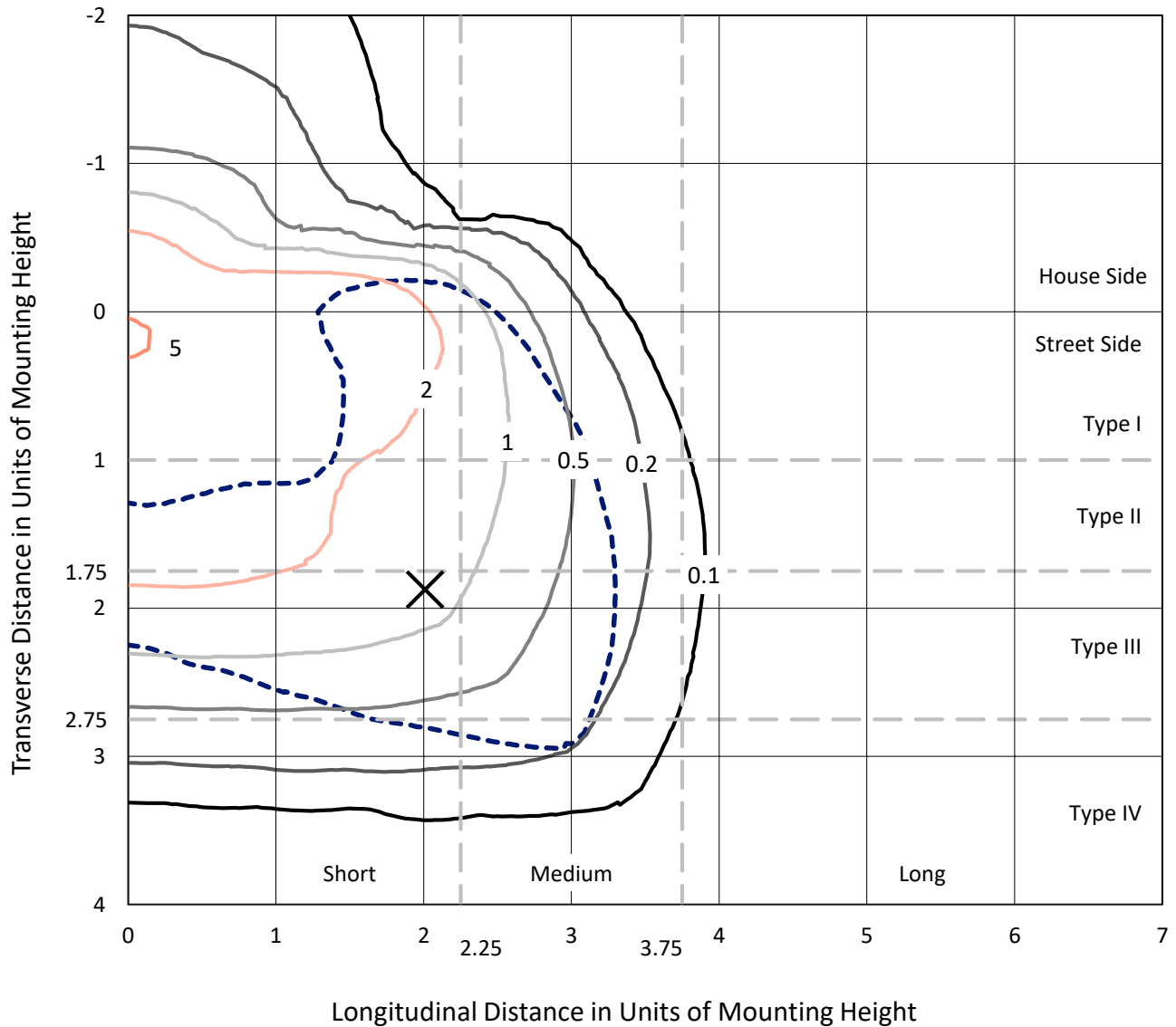
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P302865
 CATALOG NUMBER: GLNA-AF-08-LED-E1-T4W-7030-800

Iso-Footcandle Lines of Horizontal Illumination

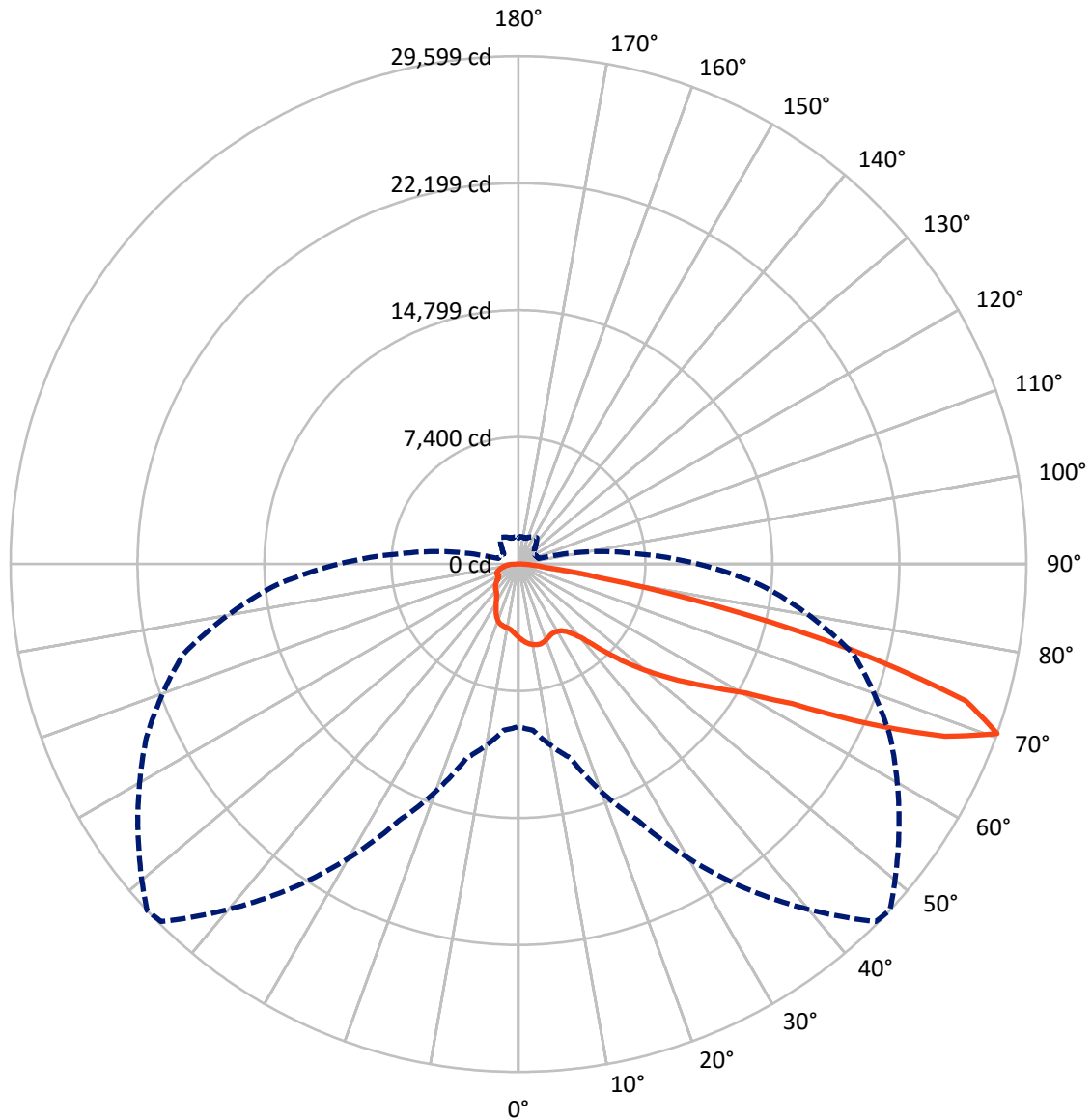
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P302865
CATALOG NUMBER: GLNA-AF-08-LED-E1-T4W-7030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P302865

CATALOG NUMBER: GLNA-AF-08-LED-E1-T4W-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7696.5	0.0	7696.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	29196.0	0.0	29196.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	36892.5	0.0	36892.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.2	1.1
10°-20°	1203.3	3.3
20°-30°	1777.0	4.8
30°-40°	2582.8	7.0
40°-50°	4648.1	12.6
50°-60°	8052.3	21.8
60°-70°	11493.0	31.2
70°-80°	5899.9	16.0
80°-90°	826.0	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°	36892.5	100.0
0°-180°	36892.5	100.0

Coefficient of Utilization



REPORT NUMBER: P302865

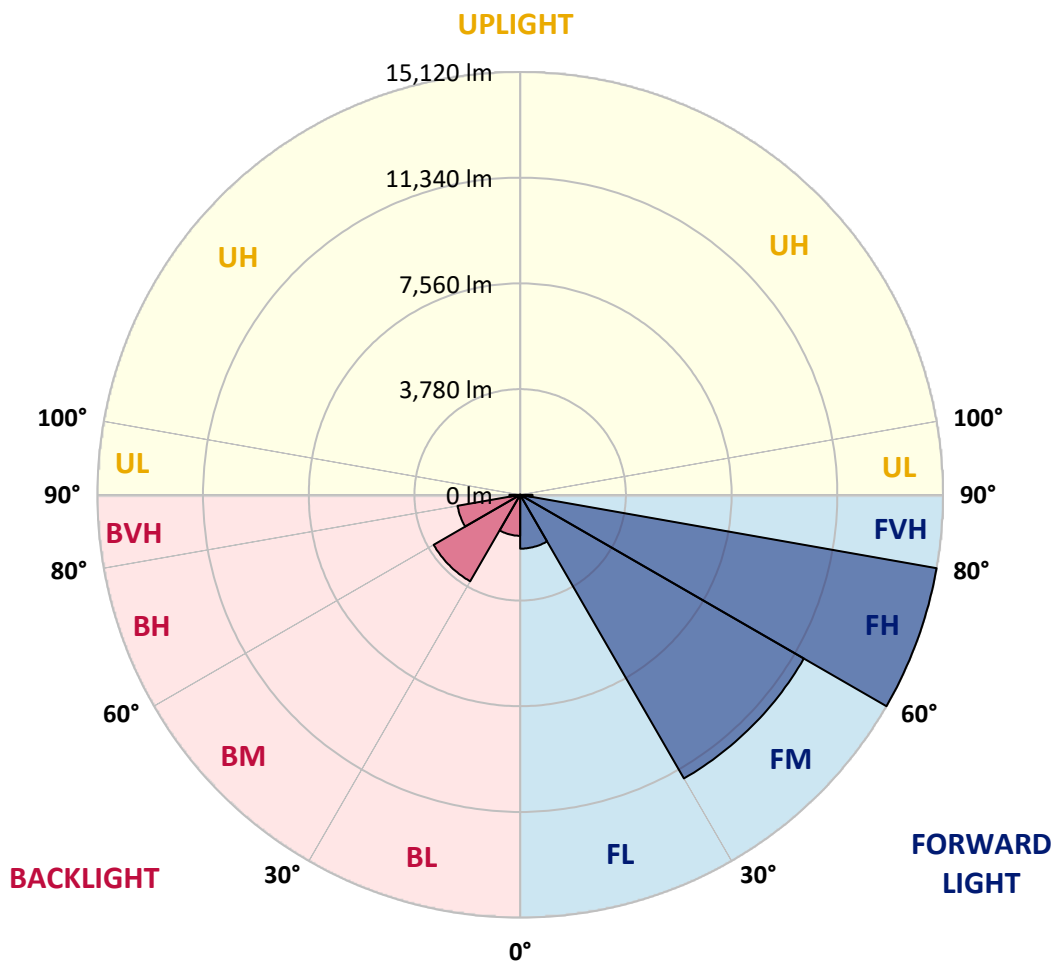
CATALOG NUMBER: GLNA-AF-08-LED-E1-T4W-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1925.0	5.2			
FM	(30°-60°)	11710.7	31.7			
FH	(60°-80°)	15119.5	41.0			G5
FVH	(80°-90°)	440.8	1.2			G3/500
BL	(0°-30°)	1465.4	4.0	B3/2500		
BM	(30°-60°)	3572.5	9.7	B3/5000		
BH	(60°-80°)	2273.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	385.2	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-G5

Type IV Short





REPORT NUMBER: P302865

CATALOG NUMBER: GLNA-AF-08-LED-E1-T4W-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6
2.5°	4532.1	4523.2	4519.6	4512.5	4503.5	4458.2	4449.3	4417.1	4372.4	4325.3	4277.0
5°	4830.2	4828.4	4808.1	4772.4	4715.1	4616.2	4592.9	4514.2	4408.1	4305.6	4203.7
7.5°	5091.9	5075.8	5038.2	4966.1	4865.9	4731.2	4699.0	4589.4	4443.9	4303.8	4165.5
10°	5283.8	5274.9	5192.6	5093.7	4962.5	4813.5	4775.9	4653.7	4494.0	4316.3	4144.1
12.5°	5393.5	5375.6	5280.2	5162.2	5006.0	4860.6	4822.4	4699.0	4519.6	4316.3	4113.7
15°	5386.3	5373.8	5278.4	5149.1	4991.7	4864.2	4830.2	4706.2	4514.2	4298.5	4074.3
17.5°	5242.7	5248.0	5167.6	5040.0	4910.7	4813.5	4783.1	4668.6	4477.9	4262.7	4027.8
20°	4991.7	5016.8	4962.5	4849.9	4777.7	4711.6	4691.9	4594.7	4422.4	4210.8	3977.2
22.5°	4740.2	4763.4	4742.0	4646.6	4635.9	4596.5	4585.8	4516.0	4374.2	4178.6	3946.8
25°	4555.4	4576.8	4573.3	4490.4	4523.2	4521.4	4512.5	4477.9	4363.4	4178.6	3952.1
27.5°	4505.3	4512.5	4505.3	4429.6	4474.3	4510.7	4503.5	4497.6	4395.6	4230.5	4020.7
30°	4677.6	4666.8	4610.8	4458.2	4499.9	4550.0	4542.9	4546.4	4492.2	4367.0	4173.3
32.5°	5364.9	5316.0	5140.2	4711.6	4601.9	4628.7	4632.3	4691.9	4700.8	4576.8	4409.9
35°	6393.1	6339.5	6111.2	5389.9	4919.6	4826.6	4826.6	4916.0	4969.7	4878.5	4777.7
37.5°	7482.8	7423.2	7301.6	6330.6	5587.2	5169.4	5160.4	5223.0	5299.9	5322.0	5347.0
40°	8720.9	8658.3	8692.3	7385.7	6518.9	5763.1	5635.5	5590.8	5798.8	5937.1	6138.6
42.5°	10076.4	10047.2	10059.7	8561.2	7579.4	6651.9	6470.6	6238.8	6490.3	6735.9	7157.9
45°	11330.6	11355.7	11343.1	9819.5	8760.8	7735.6	7543.6	7094.8	7340.9	7762.4	8450.3
47.5°	12429.2	12324.9	12486.5	11194.1	10083.6	8949.2	8712.0	8111.1	8360.3	8880.7	10043.6
50°	13762.7	13748.4	13511.7	13028.9	11682.3	10167.6	9857.1	9160.8	9548.3	10272.0	12052.5
52.5°	15164.7	14904.2	14687.3	14455.4	13378.8	11417.1	11036.2	10207.0	10944.9	11854.6	14500.7
55°	15451.4	15335.2	15604.0	15993.9	15013.9	12714.8	12271.3	11519.0	12517.5	13664.3	17323.8
57.5°	16065.4	16063.6	16620.4	17314.8	16697.3	14091.2	13644.1	13104.0	14284.9	15737.0	20321.0
60°	16480.3	16596.6	17630.8	18978.6	18350.3	15681.5	15270.2	14932.8	16295.5	18054.0	23113.7
62.5°	16697.3	16855.3	18266.2	19653.3	20687.0	18328.8	17918.1	17431.7	18955.3	20595.8	24747.0
65°	15794.8	16104.8	18167.3	20236.9	22733.4	22620.1	22435.3	21581.1	22280.9	22604.0	24156.9
67.5°	13296.0	13613.7	16015.4	19692.7	24194.4	26759.4	26798.8	25339.5	24327.3	22776.3	20310.2
70°	9473.2	9722.4	11709.7	16510.7	23081.5	29463.9	29598.6	27071.2	23919.6	20198.8	14190.1
72.5°	4497.6	4650.2	6531.4	10745.9	18316.3	26996.1	27256.6	24860.3	20338.9	14954.3	7740.9
75°	1653.0	1699.5	2207.3	4571.5	10623.7	19908.5	20215.5	17820.9	13482.5	7445.3	2948.9
77.5°	990.7	1021.1	1238.7	1929.6	4178.6	11379.5	11833.1	9692.0	5892.4	2771.3	1450.3
80°	692.7	714.1	888.2	1200.5	1974.3	4336.6	4740.2	3955.7	2347.4	1753.7	1055.1
82.5°	468.5	479.3	624.7	811.3	1312.0	1548.7	1670.9	1759.1	1583.2	1304.9	669.4
85°	307.0	317.7	423.8	534.7	834.5	800.6	818.4	1035.4	1155.8	886.4	371.4
87.5°	175.8	183.0	255.1	285.5	409.5	339.2	342.8	545.4	739.8	597.9	225.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P302865

CATALOG NUMBER: GLNA-AF-08-LED-E1-T4W-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6	4280.6
2.5°	4264.5	4241.2	4189.4	4156.6	4126.2	4119.0	4106.5	4104.7	4102.9	4102.9	4097.6
5°	4169.1	4129.8	4049.3	4004.0	3966.4	3962.9	3961.1	3970.0	3973.6	3977.2	3971.8
7.5°	4108.3	4054.7	3953.9	3889.5	3844.8	3833.5	3852.0	3893.1	3919.9	3930.7	3925.3
10°	4070.8	4004.0	3887.7	3817.4	3779.9	3774.5	3797.7	3846.6	3902.1	3923.5	3921.7
12.5°	4027.8	3952.1	3828.1	3754.8	3733.4	3744.1	3774.5	3819.2	3877.0	3911.0	3912.8
15°	3984.3	3896.7	3769.1	3704.7	3695.8	3710.1	3738.7	3772.7	3817.4	3852.0	3855.6
17.5°	3932.5	3840.7	3713.7	3646.9	3639.8	3646.9	3648.7	3666.6	3695.8	3728.0	3736.9
20°	3877.0	3783.4	3650.5	3584.3	3552.1	3523.5	3490.7	3494.3	3503.3	3536.1	3543.2
22.5°	3837.1	3744.1	3602.2	3510.4	3424.6	3338.1	3273.8	3264.8	3268.4	3295.2	3304.2
25°	3840.7	3742.3	3589.7	3431.7	3243.4	3105.1	3018.6	3004.3	3002.5	3022.2	3035.3
27.5°	3911.0	3812.0	3636.2	3350.7	3046.1	2841.0	2749.8	2739.1	2724.8	2730.1	2744.4
30°	4067.2	3975.4	3749.5	3268.4	2832.1	2582.9	2487.5	2476.8	2457.1	2448.2	2458.9
32.5°	4321.7	4246.6	3914.6	3189.1	2618.7	2361.7	2265.2	2241.9	2229.4	2218.7	2227.6
35°	4745.5	4713.3	4135.1	3103.3	2430.3	2191.3	2103.6	2067.9	2050.0	2069.7	2084.0
37.5°	5409.6	5427.5	4424.2	2968.6	2284.8	2078.6	2004.7	1963.5	1936.7	1952.8	1968.9
40°	6350.2	6362.7	4743.7	2778.4	2159.1	2011.8	1933.1	1895.6	1857.4	1828.8	1827.0
42.5°	7584.7	7457.8	5057.9	2572.2	2013.6	1970.7	1883.1	1836.0	1778.8	1699.5	1683.4
45°	9049.4	8602.9	5296.3	2334.9	1850.3	1920.6	1827.0	1762.7	1672.7	1586.8	1577.9
47.5°	10736.9	9832.0	5413.2	2089.3	1697.7	1846.7	1759.1	1656.6	1543.3	1500.4	1495.0
50°	12797.0	11291.3	5468.6	1850.3	1565.4	1750.1	1660.1	1539.7	1444.9	1436.0	1430.6
52.5°	15143.3	13046.8	5487.1	1654.8	1455.7	1624.4	1579.7	1462.8	1387.1	1394.9	1394.9
55°	17598.6	14859.5	5242.7	1512.9	1354.9	1495.0	1525.4	1432.4	1369.2	1398.4	1409.2
57.5°	19852.4	16466.0	4474.3	1403.8	1260.2	1396.7	1505.7	1461.0	1418.1	1534.4	1541.5
60°	21582.9	17415.0	3341.7	1304.9	1189.8	1362.1	1558.2	1570.7	1581.4	1859.2	1897.4
62.5°	21945.3	17099.7	2297.4	1228.0	1157.6	1391.3	1653.0	1654.8	1642.2	1836.0	1859.2
65°	20281.6	15101.5	1670.9	1184.4	1130.8	1443.2	1734.0	1695.9	1613.6	1760.9	1717.4
67.5°	16106.6	11377.7	1391.3	1152.3	1091.5	1439.6	1819.9	1734.0	1597.5	1725.1	1654.8
70°	10455.0	6879.6	1238.7	1125.4	1044.4	1371.0	1870.0	1730.5	1550.5	1604.7	1521.8
72.5°	5100.8	3076.5	1136.2	1086.1	996.1	1276.2	1868.2	1697.7	1502.2	1498.6	1453.9
75°	1995.7	1409.2	1042.6	1026.5	913.8	1168.4	1818.1	1651.2	1444.9	1387.1	1371.0
77.5°	1168.4	1005.0	924.5	938.9	814.9	1060.5	1744.8	1570.7	1365.7	1297.7	1279.8
80°	850.6	752.3	788.0	811.3	696.2	953.2	1645.8	1471.8	1278.0	1312.0	1287.0
82.5°	545.4	484.6	639.0	662.3	580.0	843.5	1537.9	1367.4	1154.0	1047.9	1022.9
85°	278.4	307.0	475.7	504.3	447.1	692.7	1407.4	1229.7	1014.0	872.1	886.4
87.5°	156.2	209.8	303.4	339.2	315.9	532.9	1141.5	1014.0	827.4	673.0	592.5
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)