

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: P300395

Luminaire Tested: **GLNA-AF-07-LED-E1-T4FT-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300395
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-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K 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: 34103 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

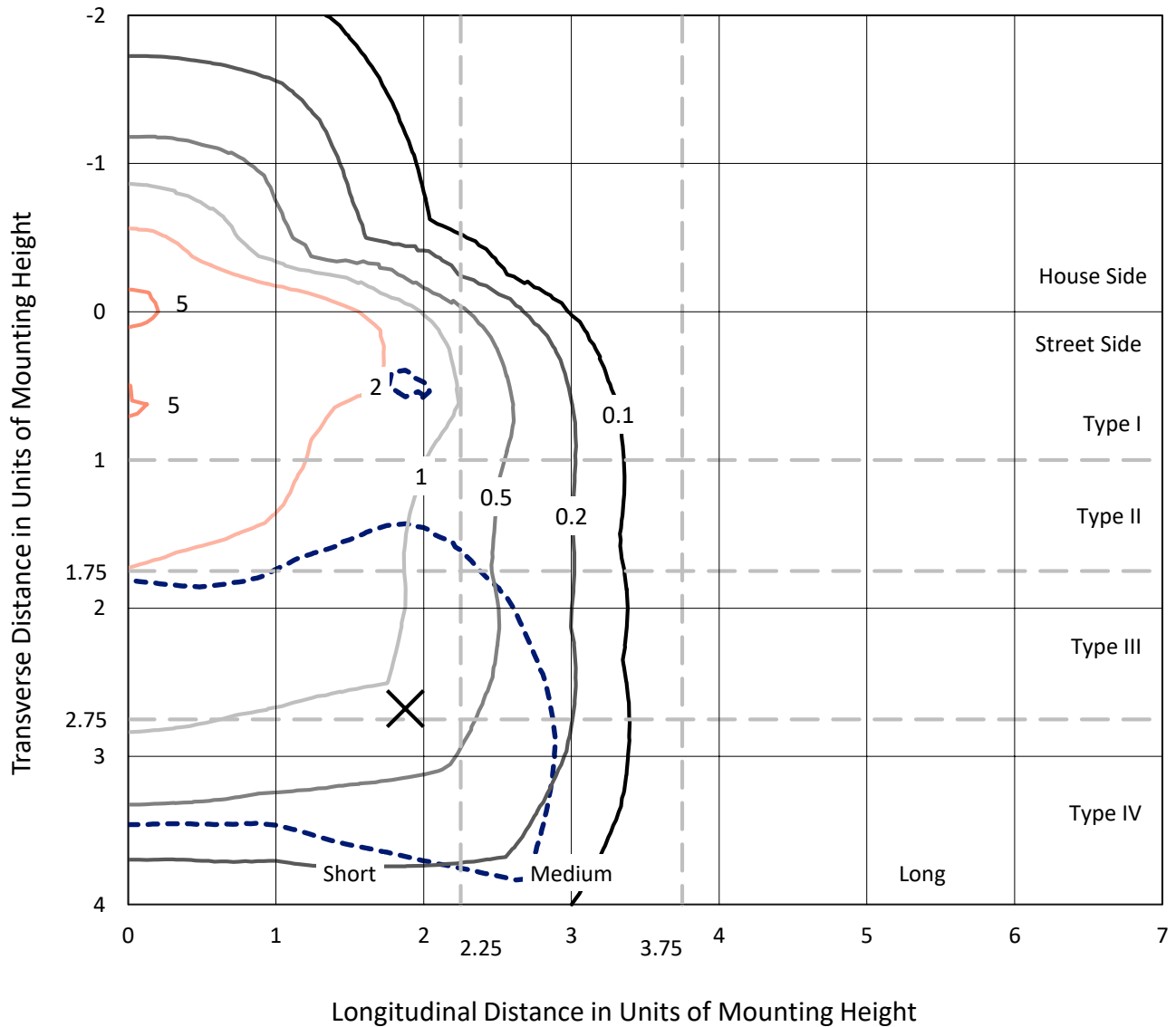
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300395
 CATALOG NUMBER: GLNA-AF-07-LED-E1-T4FT-800

Iso-Footcandle Lines of Horizontal Illumination

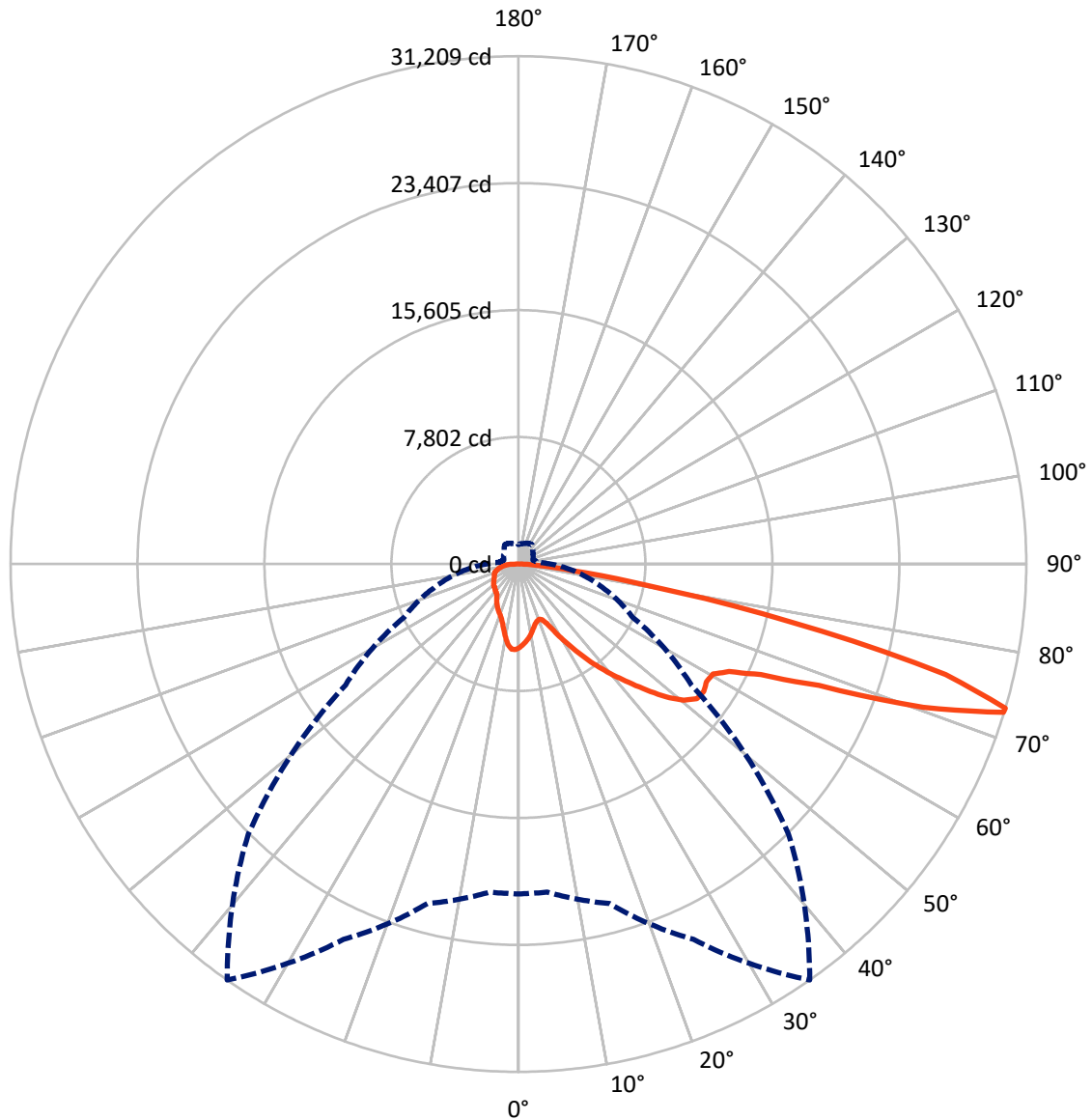
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P300395
CATALOG NUMBER: GLNA-AF-07-LED-E1-T4FT-800

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
House Side	Lumens	6504.4	0.0	6504.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	27598.6	0.0	27598.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	34103.0	0.0	34103.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.0	1.4
10°-20°	1163.0	3.4
20°-30°	1880.1	5.5
30°-40°	3152.7	9.2
40°-50°	4859.8	14.3
50°-60°	6519.9	19.1
60°-70°	8685.9	25.5
70°-80°	6624.7	19.4
80°-90°	750.9	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°	34103.0	100.0
0°-180°	34103.0	100.0



REPORT NUMBER: P300395

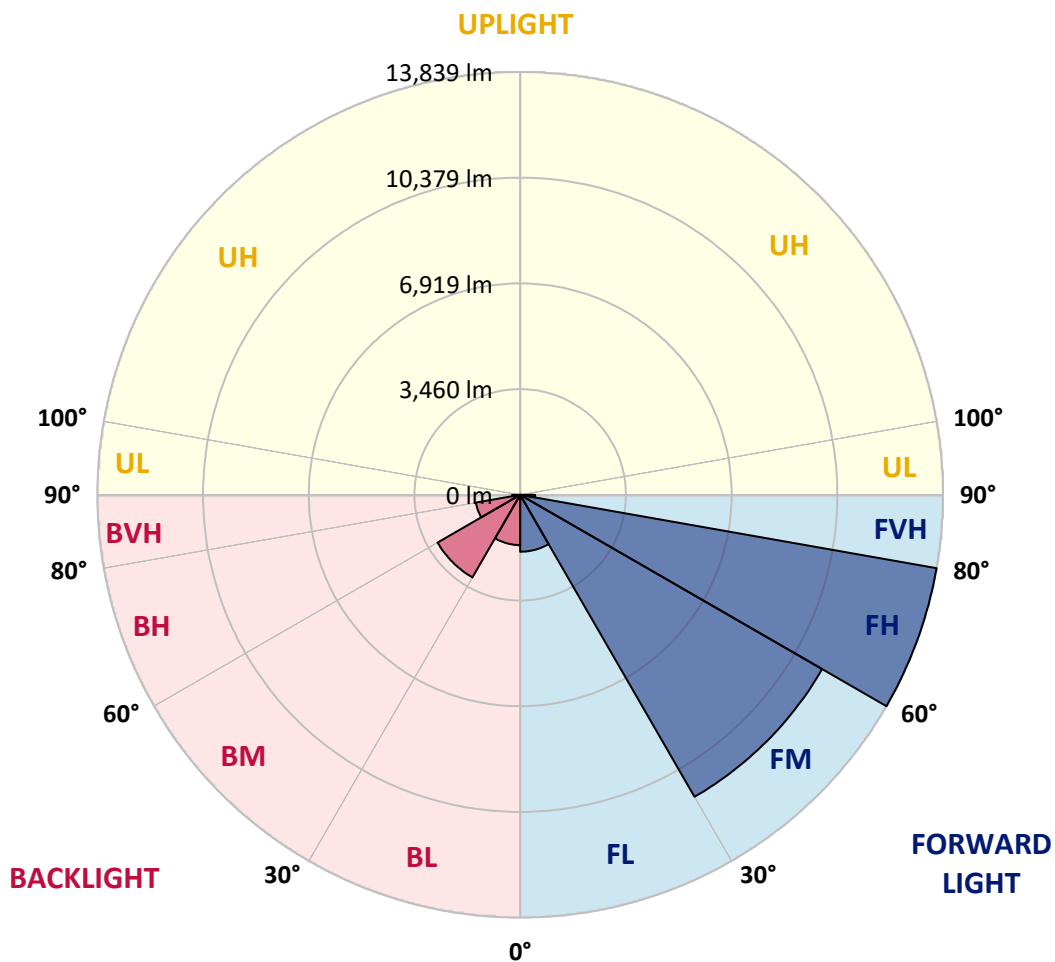
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1863.2	5.5			
FM	(30°-60°)	11411.1	33.5			
FH	(60°-80°)	13839.0	40.6			G5
FVH	(80°-90°)	485.4	1.4			G3/500
BL	(0°-30°)	1645.9	4.8	B3/2500		
BM	(30°-60°)	3121.4	9.2	B3/5000		
BH	(60°-80°)	1471.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	265.5	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 IV Short





REPORT NUMBER: P300395

CATALOG NUMBER: GLNA-AF-07-LED-E1-T4FT-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5147.2	5147.2	5147.2	5147.2	5147.2	5147.2	5147.2	5147.2	5147.2	5147.2	5147.2
2.5°	4944.1	4954.0	4942.5	4957.2	4981.8	5008.0	5026.0	5052.2	5081.7	5122.6	5132.5
5°	4711.6	4726.3	4726.3	4752.5	4800.0	4842.6	4881.9	4924.5	4986.7	5057.1	5085.0
7.5°	4456.1	4464.3	4479.0	4518.3	4587.1	4647.7	4703.4	4772.2	4857.3	4950.7	4999.8
10°	4148.2	4159.7	4182.6	4238.3	4331.6	4415.2	4495.4	4590.4	4698.5	4814.8	4877.0
12.5°	3930.4	3927.1	3937.0	3977.9	4059.8	4161.3	4277.6	4398.8	4531.4	4667.4	4742.7
15°	3856.7	3838.7	3801.0	3791.2	3835.4	3937.0	4071.2	4220.3	4379.1	4542.9	4636.2
17.5°	3902.6	3871.5	3768.3	3692.9	3686.4	3763.4	3905.8	4072.9	4256.3	4456.1	4572.4
20°	4190.8	4117.1	3863.3	3688.0	3627.4	3665.1	3789.6	3966.4	4182.6	4447.9	4596.9
22.5°	4880.3	4772.2	4233.4	3907.5	3702.8	3656.9	3750.3	3938.6	4190.8	4549.4	4739.4
25°	5884.2	5730.2	4868.8	4454.5	4031.9	3787.9	3809.2	4002.5	4307.1	4785.3	5014.5
27.5°	6676.8	6576.9	5699.1	5225.8	4631.3	4141.7	4000.8	4163.0	4544.5	5171.8	5406.0
30°	7148.4	7087.8	6586.7	6100.3	5396.1	4705.0	4367.7	4464.3	4916.3	5707.3	5900.5
32.5°	7695.4	7659.4	7413.7	6966.7	6221.5	5445.3	4949.0	4914.6	5414.1	6350.9	6439.3
35°	8262.0	8250.6	8106.5	7785.5	7107.5	6421.3	5720.4	5487.8	5956.2	7019.1	6963.4
37.5°	8789.4	8769.7	8686.2	8499.5	8034.4	7469.4	6506.5	6075.8	6540.9	7657.7	7410.5
40°	9760.5	9606.6	9320.0	9179.1	8971.2	8352.1	7130.4	6624.4	7146.8	8267.0	7797.0
42.5°	10944.6	10694.0	10160.1	9966.9	9937.4	9048.1	7556.2	7156.6	7757.6	8871.3	8176.9
45°	11876.4	11640.6	11180.4	10936.4	11044.5	9678.6	7983.6	7724.9	8386.5	9505.0	8568.3
47.5°	12870.5	12500.3	11891.1	11964.8	12200.6	10274.7	8419.3	8335.7	9076.0	10214.2	9054.7
50°	12906.5	12623.2	12356.2	12796.8	13163.6	10823.4	8964.6	8976.1	9919.4	11106.7	9701.6
52.5°	12158.1	12097.5	12521.6	13214.4	13743.3	11257.3	9585.3	9637.7	10998.6	12131.9	10412.3
55°	11896.0	11827.3	12316.9	13068.6	13821.9	11616.0	10258.4	10353.4	12303.8	13212.7	11105.0
57.5°	12534.7	12382.4	12415.2	12999.8	13630.3	12009.0	10992.0	11183.7	13722.0	14157.7	11550.5
60°	14319.8	13993.9	13374.9	13360.1	13733.5	12598.6	11840.4	12074.5	15195.9	14609.7	11376.9
62.5°	16823.8	16497.9	15338.4	14583.5	14527.8	13571.4	12881.9	12944.1	16047.5	13997.2	10317.3
65°	19534.1	19242.6	17947.2	16881.1	16366.9	15182.8	14092.2	13332.3	15769.1	12312.0	8463.5
67.5°	22824.2	22511.4	21397.8	20413.6	19919.0	17783.5	14942.1	12960.5	14002.1	9537.8	6083.9
70°	25125.1	24805.8	24366.9	25164.4	26374.7	21535.4	15051.8	11449.0	10458.2	6339.4	3661.8
72.5°	22123.3	21974.3	22775.1	26133.9	31174.7	23811.7	13605.8	8335.7	6074.1	3365.4	2119.1
73°	20269.5	20236.7	21602.5	25454.3	31209.1	23461.3	12972.0	7747.8	5209.4	2977.3	1937.4
75°	9152.9	9416.6	12410.3	19442.4	27114.9	19332.7	9130.0	4444.6	2942.9	2056.9	1462.4
77.5°	2199.4	2291.1	3882.9	9233.2	17123.5	11521.0	4136.8	2197.8	1881.7	1452.6	1067.8
80°	936.7	967.9	1495.2	3411.3	8062.3	4639.5	1906.2	1472.3	1301.9	1013.7	748.4
82.5°	520.8	553.5	848.3	1547.6	3254.1	1582.0	1162.7	1025.2	856.5	610.9	486.4
85°	294.8	312.8	496.2	864.7	1378.9	635.4	696.0	681.3	483.1	314.4	239.1
87.5°	139.2	150.7	239.1	401.2	540.4	248.9	353.7	389.8	303.0	191.6	124.5
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: P300395

CATALOG NUMBER: GLNA-AF-07-LED-E1-T4FT-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5147.2	5147.2	5147.2	5147.2	5147.2	5147.2	5147.2	5147.2	5147.2	5147.2
2.5°	5143.9	5173.4	5207.8	5225.8	5242.2	5261.8	5281.5	5281.5	5284.8	5286.4
5°	5107.9	5168.5	5222.5	5245.5	5250.4	5250.4	5245.5	5219.3	5196.3	5206.2
7.5°	5032.6	5121.0	5166.9	5158.7	5096.4	5024.4	4963.8	4890.1	4852.4	4845.9
10°	4924.5	5026.0	5034.2	4952.3	4798.4	4644.4	4516.7	4392.2	4333.3	4318.5
12.5°	4804.9	4898.3	4845.9	4677.2	4429.9	4205.5	4043.4	3917.3	3861.6	3846.9
15°	4708.3	4772.2	4639.5	4374.2	4063.1	3825.6	3691.3	3598.0	3558.7	3547.2
17.5°	4657.5	4670.6	4428.3	4069.6	3738.8	3540.6	3457.1	3412.9	3398.2	3390.0
20°	4682.1	4590.4	4226.8	3786.3	3473.5	3334.3	3314.6	3303.2	3299.9	3295.0
22.5°	4804.9	4565.8	4041.8	3517.7	3241.0	3180.4	3196.7	3195.1	3191.8	3188.5
25°	5024.4	4587.1	3861.6	3262.2	3046.1	3033.0	3062.4	3062.4	3049.3	3049.3
27.5°	5314.2	4631.3	3660.2	3019.9	2869.2	2870.8	2893.8	2887.2	2872.5	2862.6
30°	5668.0	4659.2	3424.4	2802.1	2703.8	2697.2	2703.8	2676.0	2631.7	2628.5
32.5°	6029.9	4624.8	3150.9	2608.8	2528.6	2513.8	2508.9	2469.6	2418.8	2404.1
35°	6357.4	4498.7	2872.5	2454.9	2361.5	2328.8	2351.7	2338.6	2292.7	2281.3
37.5°	6596.5	4264.5	2621.9	2318.9	2242.0	2233.8	2248.5	2253.4	2199.4	2187.9
40°	6757.0	3946.8	2407.4	2204.3	2219.0	2187.9	2138.8	2104.4	2088.0	2083.1
42.5°	6886.4	3616.0	2227.2	2150.3	2224.0	2133.9	2027.4	1971.8	2001.2	2014.3
45°	7035.4	3293.4	2076.6	2083.1	2199.4	2071.7	1950.5	1896.4	1907.9	1911.2
47.5°	7240.1	2900.3	1914.4	1975.0	2117.5	2029.1	1903.0	1826.0	1772.0	1747.4
50°	7523.5	2435.2	1745.8	1853.8	2037.3	1998.0	1829.3	1747.4	1647.5	1624.6
52.5°	7720.0	2001.2	1606.6	1752.3	1965.2	1935.7	1770.3	1663.9	1559.1	1539.4
55°	7613.5	1662.2	1485.4	1639.3	1870.2	1858.8	1721.2	1578.7	1496.8	1480.5
57.5°	7081.3	1447.7	1392.0	1532.9	1753.9	1793.2	1655.7	1506.7	1447.7	1436.2
60°	6065.9	1313.4	1333.1	1460.8	1659.0	1727.7	1590.2	1467.4	1428.0	1419.9
62.5°	4706.7	1223.3	1288.8	1408.4	1585.3	1681.9	1554.1	1462.4	1447.7	1437.9
65°	3372.0	1151.3	1241.4	1356.0	1518.1	1639.3	1541.0	1455.9	1459.2	1451.0
67.5°	2291.1	1087.4	1184.0	1297.0	1452.6	1601.6	1523.0	1433.0	1473.9	1464.1
70°	1603.3	1025.2	1116.9	1221.7	1370.7	1549.2	1490.3	1398.6	1395.3	1356.0
72.5°	1251.2	943.3	1025.2	1116.9	1265.9	1475.5	1424.8	1321.6	1267.6	1226.6
73°	1193.9	923.6	1002.3	1094.0	1243.0	1457.5	1406.8	1300.3	1239.7	1202.1
75°	987.5	838.5	910.5	992.4	1144.7	1372.4	1318.3	1203.7	1126.7	1103.8
77.5°	776.3	717.3	786.1	859.8	1008.8	1247.9	1187.3	1077.6	1035.0	1015.4
80°	574.8	594.5	655.1	720.6	874.5	1115.3	1061.2	951.5	1141.5	1094.0
82.5°	404.5	450.4	506.0	565.0	733.7	985.9	920.4	807.4	835.2	694.4
85°	239.1	294.8	347.2	398.0	529.0	817.2	759.9	643.6	527.3	502.8
87.5°	139.2	163.8	178.5	230.9	363.6	615.8	535.5	476.6	273.5	185.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)