

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: P300327

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300327
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
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34526.6 lumens
Efficiency: N/A
Efficacy: 103.7 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 - G5

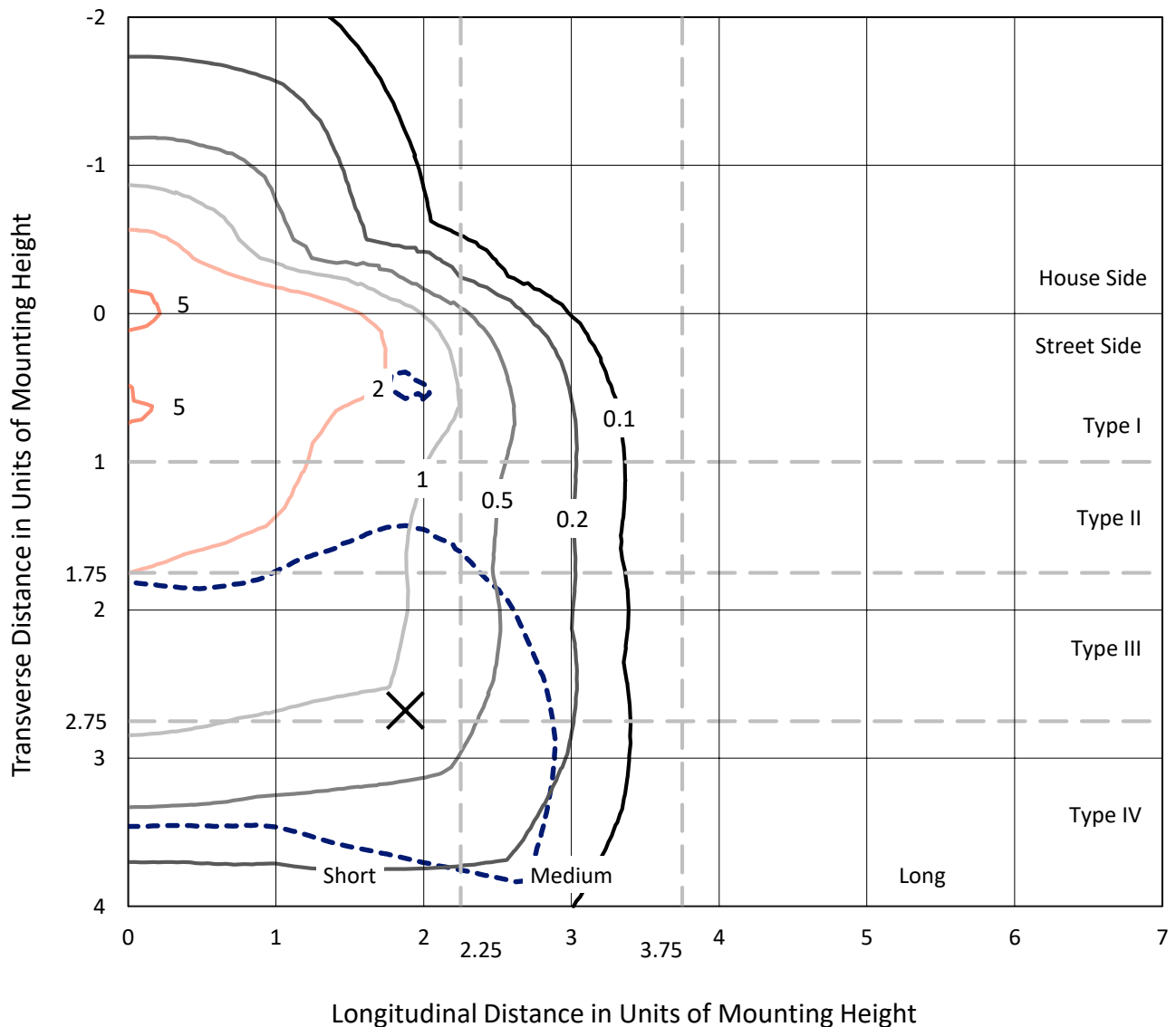
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

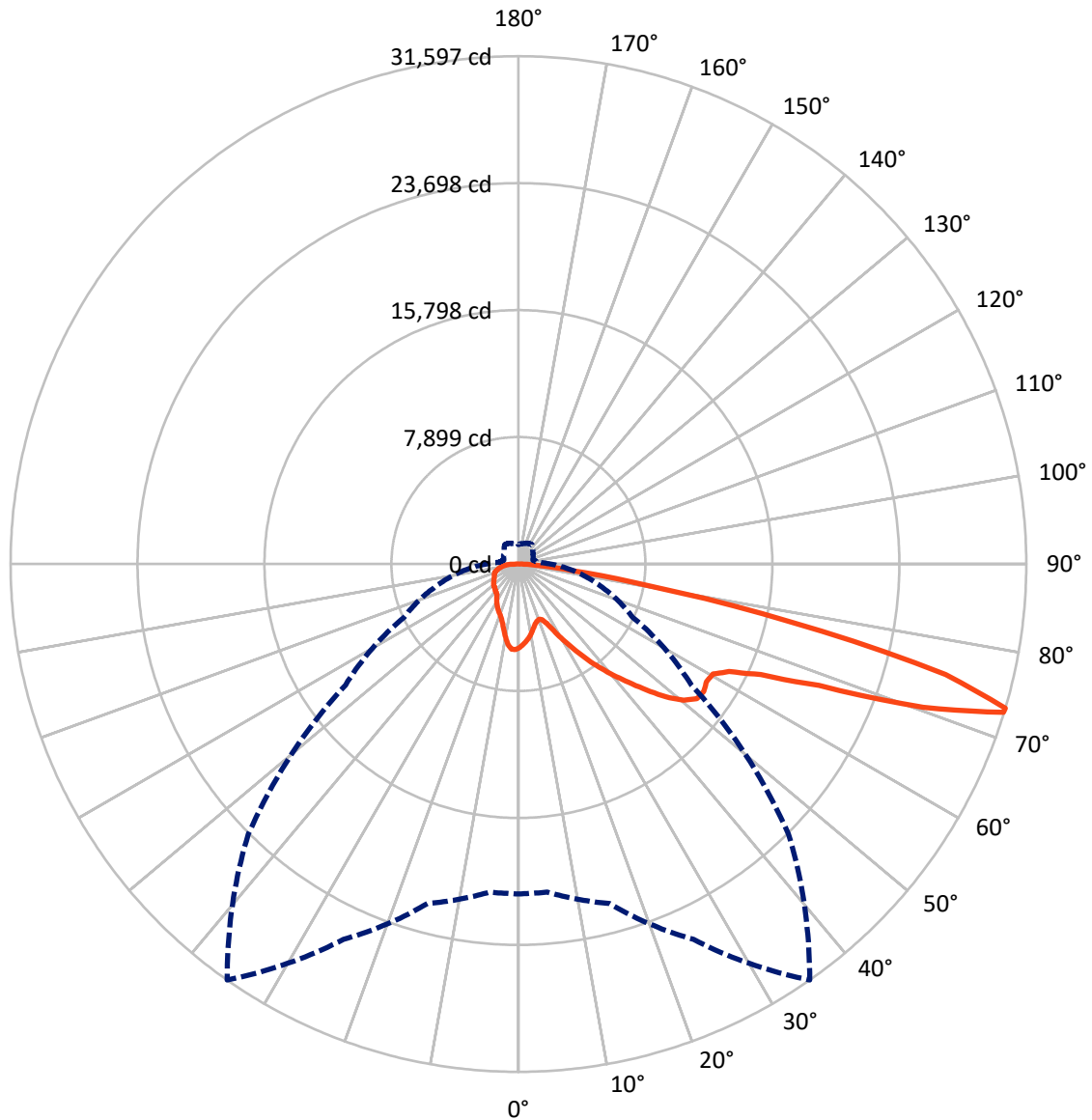
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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
House Side	Lumens	6585.2	0.0	6585.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	27941.4	0.0	27941.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	34526.6	0.0	34526.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.8	1.4
10°-20°	1177.4	3.4
20°-30°	1903.5	5.5
30°-40°	3191.9	9.2
40°-50°	4920.2	14.3
50°-60°	6600.9	19.1
60°-70°	8793.8	25.5
70°-80°	6707.0	19.4
80°-90°	760.2	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°	34526.6	100.0
0°-180°	34526.6	100.0



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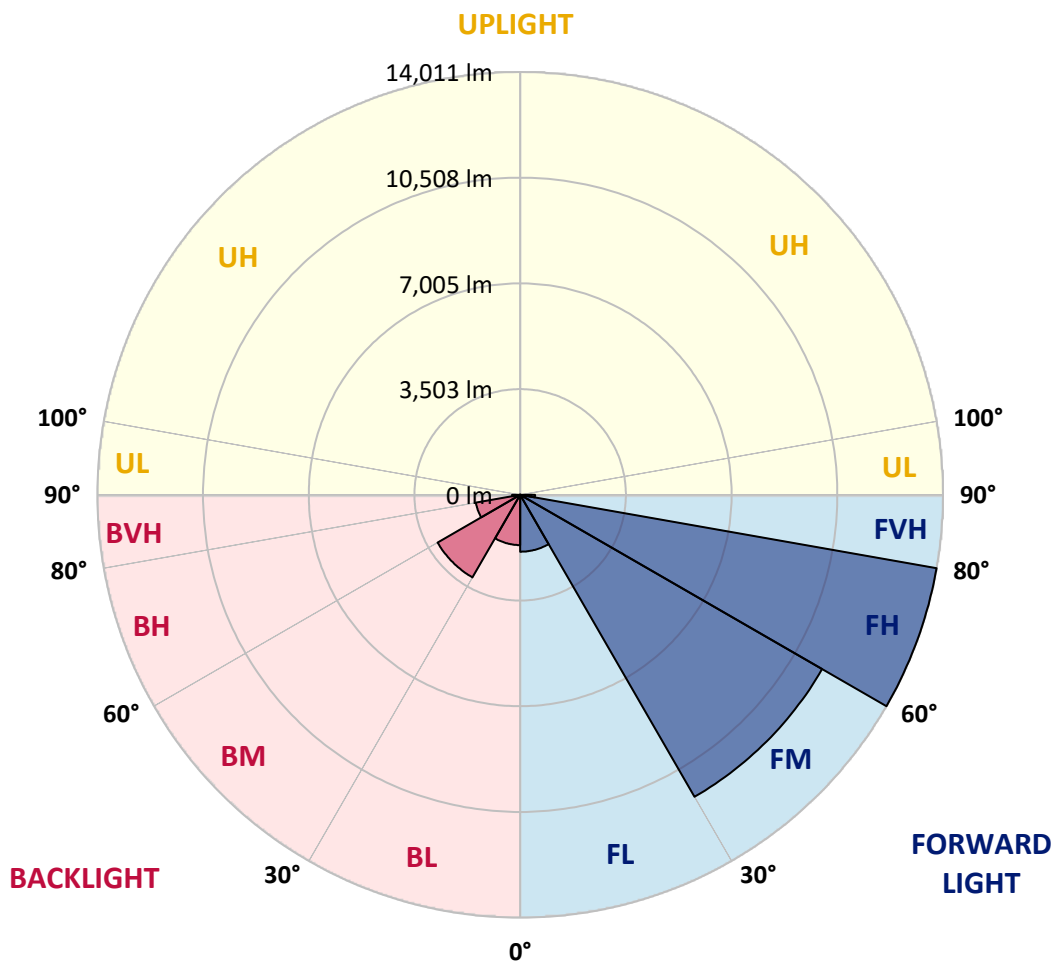
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1886.3	5.5			
FM	(30°-60°)	11552.8	33.5			
FH	(60°-80°)	14010.9	40.6			G5
FVH	(80°-90°)	491.4	1.4			G3/500
BL	(0°-30°)	1666.4	4.8	B3/2500		
BM	(30°-60°)	3160.2	9.2	B3/5000		
BH	(60°-80°)	1489.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	268.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5211.1	5211.1	5211.1	5211.1	5211.1	5211.1	5211.1	5211.1	5211.1	5211.1	5211.1
2.5°	5005.5	5015.5	5003.9	5018.8	5043.7	5070.2	5088.4	5115.0	5144.8	5186.3	5196.2
5°	4770.1	4785.0	4785.0	4811.6	4859.6	4902.7	4942.5	4985.6	5048.6	5119.9	5148.1
7.5°	4511.5	4519.7	4534.7	4574.5	4644.1	4705.4	4761.8	4831.4	4917.7	5012.2	5061.9
10°	4199.7	4211.4	4234.6	4290.9	4385.4	4470.0	4551.2	4647.4	4756.8	4874.6	4937.6
12.5°	3979.2	3975.9	3985.9	4027.3	4110.2	4213.0	4330.7	4453.4	4587.7	4725.3	4801.6
15°	3904.6	3886.4	3848.2	3838.3	3883.1	3985.9	4121.8	4272.7	4433.5	4599.3	4693.8
17.5°	3951.0	3919.5	3815.1	3738.8	3732.2	3810.1	3954.4	4123.5	4309.2	4511.5	4629.2
20°	4242.9	4168.2	3911.3	3733.8	3672.5	3710.6	3836.6	4015.7	4234.6	4503.2	4654.0
22.5°	4940.9	4831.4	4286.0	3956.0	3748.8	3702.3	3796.8	3987.5	4242.9	4606.0	4798.3
25°	5957.2	5801.4	4929.3	4509.8	4082.0	3835.0	3856.5	4052.2	4360.6	4844.7	5076.8
27.5°	6759.7	6658.6	5769.9	5290.7	4688.9	4193.1	4050.5	4214.7	4601.0	5236.0	5473.1
30°	7237.2	7175.9	6668.5	6176.1	5463.2	4763.5	4421.9	4519.7	4977.4	5778.2	5973.8
32.5°	7791.0	7754.5	7505.8	7053.2	6298.8	5512.9	5010.5	4975.7	5481.4	6429.8	6519.3
35°	8364.7	8353.1	8207.2	7882.2	7195.8	6501.1	5791.4	5556.0	6030.2	7106.2	7049.9
37.5°	8898.6	8878.7	8794.1	8605.1	8134.2	7562.2	6587.3	6151.2	6622.1	7752.9	7502.5
40°	9881.8	9725.9	9435.8	9293.2	9082.6	8455.9	7219.0	6706.7	7235.6	8369.6	7893.8
42.5°	11080.5	10826.8	10286.3	10090.7	10060.8	9160.5	7650.1	7245.5	7854.0	8981.5	8278.5
45°	12023.9	11785.2	11319.3	11072.2	11181.6	9798.9	8082.8	7820.8	8490.7	9623.1	8674.7
47.5°	13030.3	12655.6	12038.8	12113.4	12352.2	10402.4	8523.8	8439.3	9188.7	10341.0	9167.2
50°	13066.8	12780.0	12509.7	12955.7	13327.1	10957.8	9076.0	9087.6	10042.6	11244.6	9822.1
52.5°	12309.1	12247.7	12677.2	13378.5	13914.0	11397.2	9704.3	9757.4	11135.2	12282.6	10541.6
55°	12043.8	11974.2	12469.9	13230.9	13993.6	11760.3	10385.8	10482.0	12456.7	13376.8	11243.0
57.5°	12690.4	12536.2	12569.4	13161.3	13799.6	12158.2	11128.6	11322.6	13892.5	14333.5	11694.0
60°	14497.7	14167.7	13541.0	13526.1	13904.1	12755.1	11987.4	12224.5	15384.7	14791.1	11518.2
62.5°	17032.8	16702.8	15528.9	14764.6	14708.2	13740.0	13041.9	13104.9	16246.9	14171.0	10445.5
65°	19776.8	19481.7	18170.2	17090.8	16570.2	15371.4	14267.2	13497.9	15965.0	12464.9	8568.6
67.5°	23107.7	22791.0	21663.6	20667.1	20166.4	18004.4	15127.7	13121.5	14176.0	9656.3	6159.5
70°	25437.2	25113.9	24669.6	25477.0	26702.3	21802.9	15238.8	11591.2	10588.1	6418.2	3707.3
72.5°	22398.1	22247.2	23058.0	26458.6	31561.9	24107.5	13774.8	8439.3	6149.6	3407.2	2145.5
73°	20521.2	20488.1	21870.8	25770.5	31596.8	23752.7	13133.1	7844.1	5274.1	3014.3	1961.4
75°	9266.6	9533.6	12564.4	19683.9	27451.7	19572.8	9243.4	4499.8	2979.4	2082.5	1480.6
77.5°	2226.7	2319.6	3931.1	9347.9	17336.2	11664.1	4188.1	2225.1	1905.1	1470.7	1081.0
80°	948.4	979.9	1513.8	3453.6	8162.4	4697.2	1929.9	1490.6	1318.1	1026.3	757.7
82.5°	527.2	560.4	858.9	1566.8	3294.5	1601.6	1177.2	1037.9	867.1	618.4	492.4
85°	298.4	316.7	502.4	875.4	1396.0	643.3	704.7	689.7	489.1	318.3	242.1
87.5°	140.9	152.5	242.1	406.2	547.1	252.0	358.1	394.6	306.7	194.0	126.0
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°	5211.1	5211.1	5211.1	5211.1	5211.1	5211.1	5211.1	5211.1	5211.1	5211.1
2.5°	5207.8	5237.7	5272.5	5290.7	5307.3	5327.2	5347.1	5347.1	5350.4	5352.1
5°	5171.3	5232.7	5287.4	5310.6	5315.6	5315.6	5310.6	5284.1	5260.9	5270.8
7.5°	5095.1	5184.6	5231.0	5222.7	5159.7	5086.8	5025.4	4950.8	4912.7	4906.1
10°	4985.6	5088.4	5096.7	5013.8	4858.0	4702.1	4572.8	4446.8	4387.1	4372.2
12.5°	4864.6	4959.1	4906.1	4735.3	4484.9	4257.8	4093.6	3966.0	3909.6	3894.7
15°	4766.8	4831.4	4697.2	4428.6	4113.5	3873.1	3737.2	3642.7	3602.9	3591.3
17.5°	4715.4	4728.7	4483.3	4120.2	3785.2	3584.6	3500.1	3455.3	3440.4	3432.1
20°	4740.3	4647.4	4279.3	3833.3	3516.6	3375.7	3355.8	3344.2	3340.9	3335.9
22.5°	4864.6	4622.5	4092.0	3561.4	3281.2	3219.9	3236.4	3234.8	3231.5	3228.2
25°	5086.8	4644.1	3909.6	3302.8	3083.9	3070.6	3100.5	3100.5	3087.2	3087.2
27.5°	5380.3	4688.9	3705.7	3057.4	2904.8	2906.5	2929.7	2923.1	2908.2	2898.2
30°	5738.4	4717.0	3466.9	2836.9	2737.4	2730.7	2737.4	2709.2	2664.4	2661.1
32.5°	6104.8	4682.2	3190.0	2641.2	2560.0	2545.0	2540.1	2500.3	2448.9	2434.0
35°	6436.4	4554.6	2908.2	2485.4	2390.9	2357.7	2380.9	2367.6	2321.2	2309.6
37.5°	6678.5	4317.5	2654.5	2347.7	2269.8	2261.5	2276.5	2281.4	2226.7	2215.1
40°	6841.0	3995.8	2437.3	2231.7	2246.6	2215.1	2165.4	2130.5	2114.0	2109.0
42.5°	6971.9	3660.9	2254.9	2177.0	2251.6	2160.4	2052.6	1996.2	2026.1	2039.4
45°	7122.8	3334.3	2102.4	2109.0	2226.7	2097.4	1974.7	1920.0	1931.6	1934.9
47.5°	7330.1	2936.3	1938.2	1999.6	2143.8	2054.3	1926.6	1848.7	1794.0	1769.1
50°	7616.9	2465.5	1767.4	1876.9	2062.6	2022.8	1852.0	1769.1	1668.0	1644.7
52.5°	7815.9	2026.1	1626.5	1774.1	1989.6	1959.8	1792.3	1684.5	1578.4	1558.5
55°	7708.1	1682.9	1503.8	1659.7	1893.5	1881.8	1742.6	1598.3	1515.4	1498.8
57.5°	7169.2	1465.7	1409.3	1551.9	1775.7	1815.5	1676.3	1525.4	1465.7	1454.1
60°	6141.3	1329.7	1349.6	1478.9	1679.6	1749.2	1609.9	1485.6	1445.8	1437.5
62.5°	4765.1	1238.5	1304.9	1425.9	1605.0	1702.8	1573.5	1480.6	1465.7	1455.7
65°	3413.8	1165.6	1256.8	1372.8	1537.0	1659.7	1560.2	1474.0	1477.3	1469.0
67.5°	2319.6	1100.9	1198.7	1313.1	1470.7	1621.5	1542.0	1450.8	1492.2	1482.3
70°	1623.2	1037.9	1130.8	1236.9	1387.8	1568.5	1508.8	1415.9	1412.6	1372.8
72.5°	1266.7	955.0	1037.9	1130.8	1281.6	1493.9	1442.5	1338.0	1283.3	1241.9
73°	1208.7	935.1	1014.7	1107.6	1258.4	1475.6	1424.2	1316.5	1255.1	1217.0
75°	999.8	848.9	921.9	1004.8	1159.0	1389.4	1334.7	1218.6	1140.7	1117.5
77.5°	785.9	726.2	795.8	870.5	1021.3	1263.4	1202.1	1091.0	1047.9	1028.0
80°	582.0	601.9	663.2	729.5	885.4	1129.1	1074.4	963.3	1155.6	1107.6
82.5°	409.5	456.0	512.3	572.0	742.8	998.1	931.8	817.4	845.6	703.0
85°	242.1	298.4	351.5	402.9	535.5	827.3	769.3	651.6	533.9	509.0
87.5°	140.9	165.8	180.7	233.8	368.1	623.4	542.2	482.5	276.9	187.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)