

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: P191525

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191525
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: GLEON-AF-07-LED-E1-T4FT-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35006.4 lumens
Efficiency: N/A
Efficacy: 118.7 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

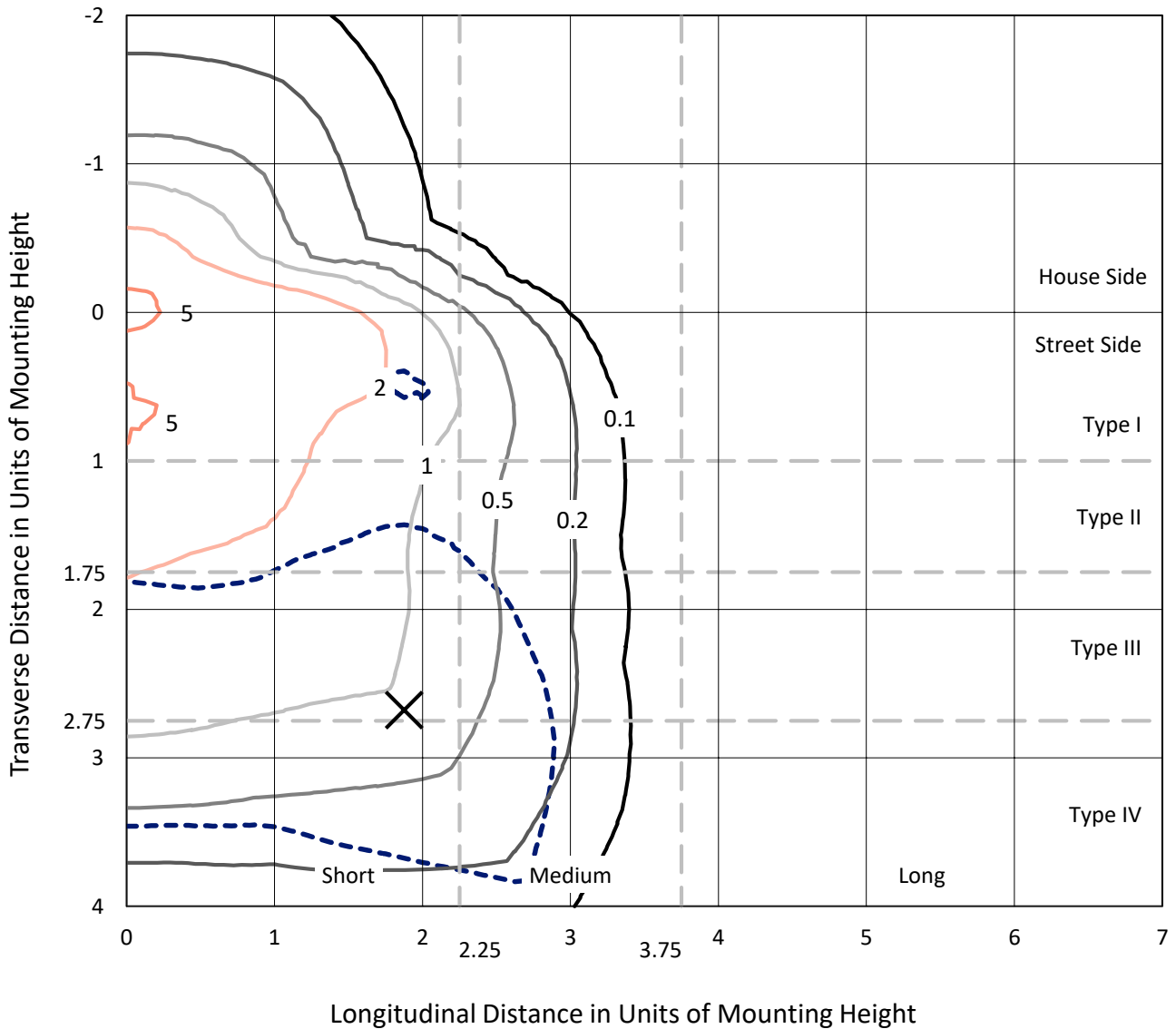
Input Watts (W): 295
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

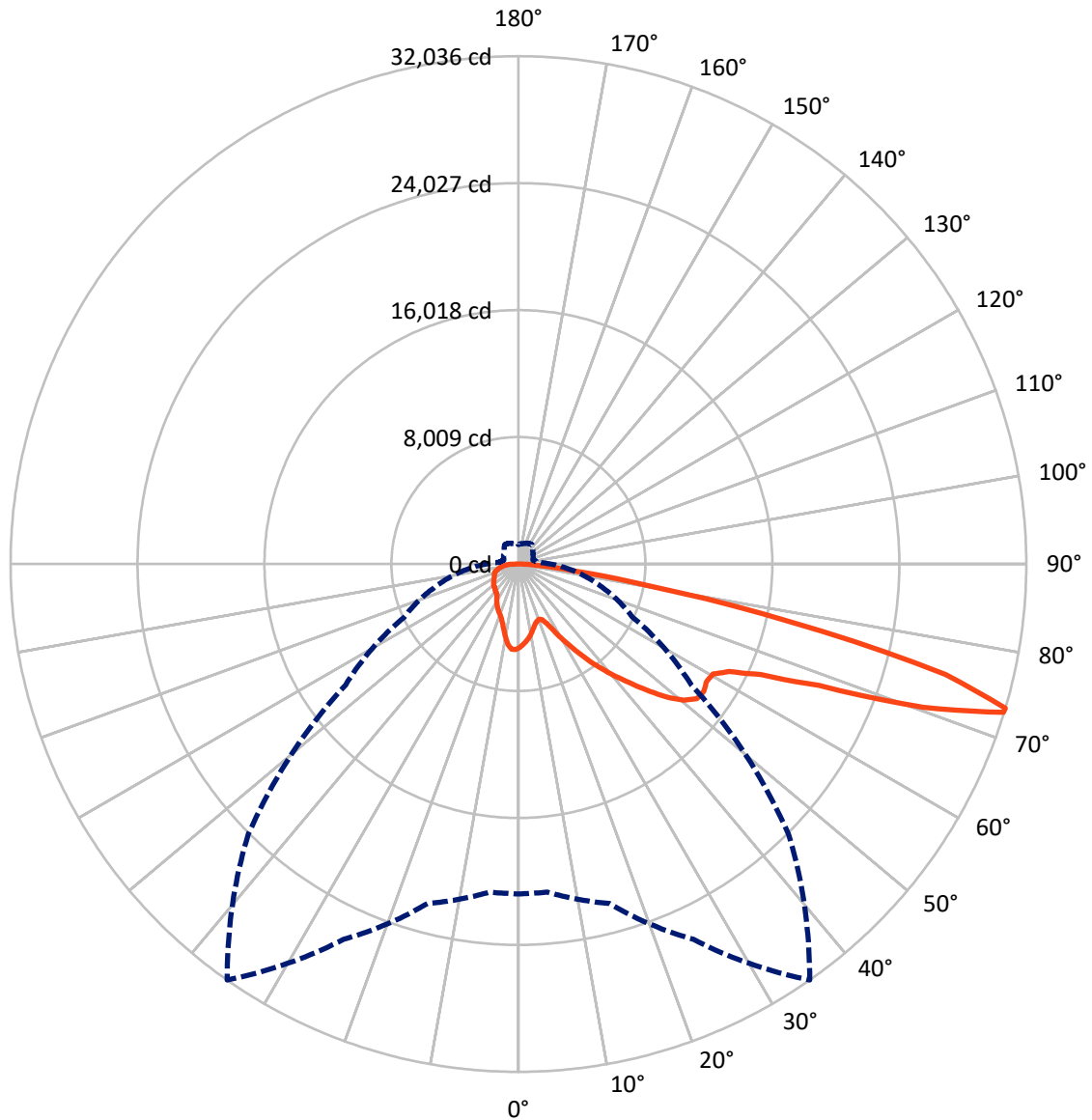
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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	6676.7	0.0	6676.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	28329.7	0.0	28329.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	35006.4	0.0	35006.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.3	1.4
10°-20°	1193.8	3.4
20°-30°	1929.9	5.5
30°-40°	3236.3	9.2
40°-50°	4988.5	14.3
50°-60°	6692.7	19.1
60°-70°	8916.0	25.5
70°-80°	6800.2	19.4
80°-90°	770.8	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°	35006.4	100.0
0°-180°	35006.4	100.0



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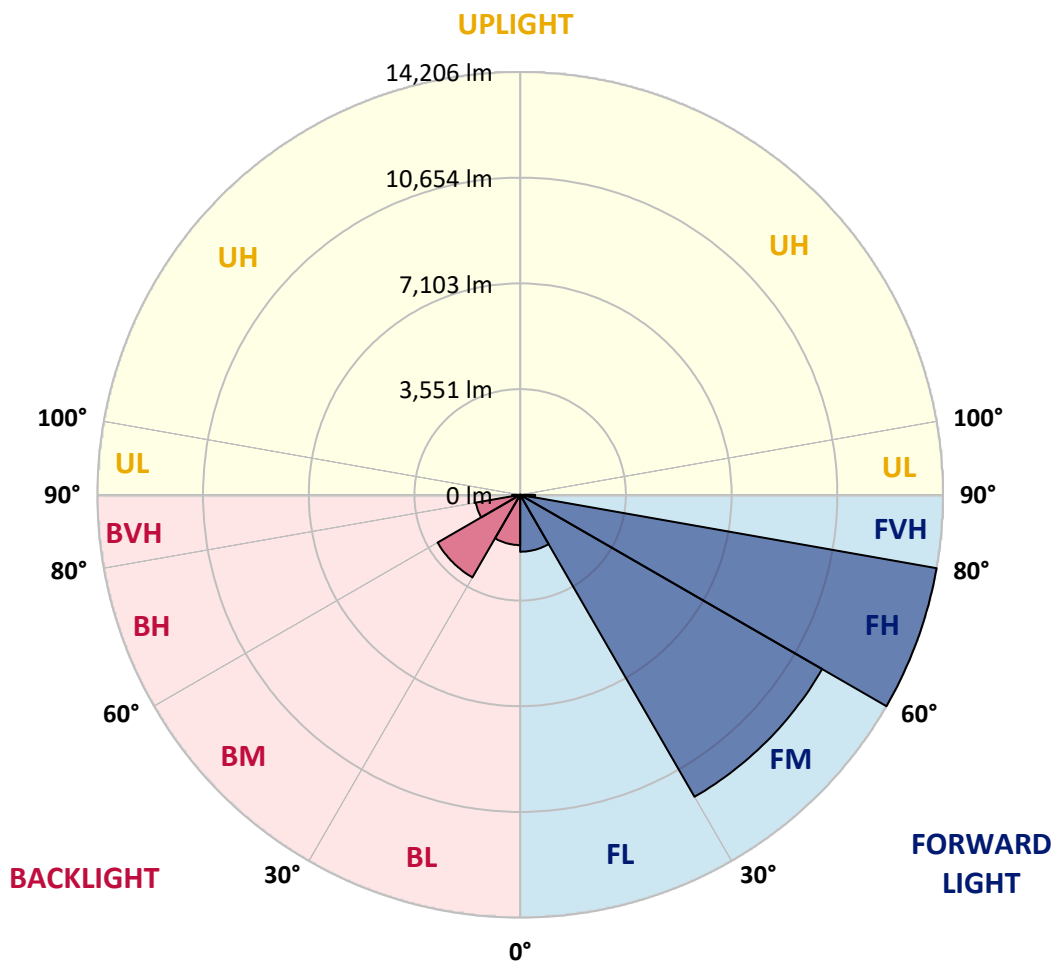
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1912.5	5.5			
FM	(30°-60°)	11713.4	33.5			
FH	(60°-80°)	14205.6	40.6			G5
FVH	(80°-90°)	498.2	1.4			G3/500
BL	(0°-30°)	1689.5	4.8	B3/2500		
BM	(30°-60°)	3204.1	9.2	B3/5000		
BH	(60°-80°)	1510.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	272.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5283.5	5283.5	5283.5	5283.5	5283.5	5283.5	5283.5	5283.5	5283.5	5283.5	5283.5
2.5°	5075.1	5085.2	5073.4	5088.6	5113.7	5140.6	5159.2	5186.1	5216.3	5258.4	5268.4
5°	4836.4	4851.5	4851.5	4878.5	4927.1	4970.9	5011.2	5054.9	5118.8	5191.1	5219.7
7.5°	4574.1	4582.5	4597.7	4638.1	4708.6	4770.8	4828.0	4898.6	4986.0	5081.8	5132.2
10°	4258.1	4269.9	4293.4	4350.6	4446.4	4532.1	4614.5	4712.0	4822.9	4942.3	5006.2
12.5°	4034.5	4031.1	4041.3	4083.3	4167.3	4271.5	4390.9	4515.3	4651.5	4791.0	4868.3
15°	3958.9	3940.4	3901.7	3891.6	3937.0	4041.3	4179.1	4332.1	4495.2	4663.2	4759.1
17.5°	4006.0	3974.1	3868.1	3790.7	3784.1	3863.1	4009.4	4180.8	4369.0	4574.1	4693.5
20°	4301.8	4226.2	3965.6	3785.7	3723.5	3762.2	3890.0	4071.5	4293.4	4565.7	4718.8
22.5°	5009.5	4898.6	4345.5	4011.0	3800.9	3753.8	3849.6	4042.9	4301.8	4670.0	4864.9
25°	6040.0	5882.0	4997.7	4572.5	4138.8	3888.2	3910.1	4108.5	4421.2	4912.0	5147.4
27.5°	6853.7	6751.1	5850.1	5364.3	4754.1	4251.4	4106.8	4273.3	4665.0	5308.8	5549.2
30°	7337.8	7275.6	6761.2	6261.9	5539.1	4829.7	4483.4	4582.5	5046.5	5858.4	6056.8
32.5°	7899.2	7862.3	7610.1	7151.2	6386.3	5589.5	5080.2	5044.9	5557.6	6519.2	6609.9
35°	8480.9	8469.1	8321.2	7991.7	7295.8	6591.4	5871.9	5633.2	6114.0	7204.9	7147.9
37.5°	9022.2	9002.1	8916.3	8724.6	8247.2	7667.3	6678.8	6236.7	6714.1	7860.6	7606.8
40°	10019.1	9861.0	9566.8	9422.3	9208.8	8573.4	7319.3	6799.9	7336.1	8486.0	8003.5
42.5°	11234.5	10977.3	10429.3	10230.9	10200.7	9287.8	7756.4	7346.2	7963.2	9106.3	8393.5
45°	12191.0	11948.9	11476.6	11226.1	11337.1	9935.0	8195.2	7929.5	8608.6	9756.8	8795.2
47.5°	13211.4	12831.5	12206.2	12281.8	12523.9	10546.9	8642.3	8556.6	9316.4	10484.7	9294.5
50°	13248.3	12957.6	12683.6	13135.7	13512.4	11110.1	9202.1	9213.8	10182.1	11400.9	9958.5
52.5°	12480.1	12417.9	12853.4	13564.4	14107.4	11555.6	9839.3	9893.0	11290.0	12453.2	10688.1
55°	12211.2	12140.6	12643.2	13414.8	14188.1	11923.7	10530.2	10627.6	12629.8	13562.8	11399.3
57.5°	12866.8	12710.5	12744.0	13344.2	13991.4	12327.2	11283.2	11480.0	14085.5	14532.8	11856.5
60°	14699.1	14364.6	13729.1	13714.1	14097.3	12932.3	12154.0	12394.4	15598.5	14996.7	11678.3
62.5°	17269.5	16935.0	15744.7	14969.8	14912.7	13930.9	13223.2	13287.0	16472.7	14368.0	10590.6
65°	20051.6	19752.4	18422.6	17328.3	16800.4	15585.1	14465.4	13685.4	16186.9	12638.1	8687.7
67.5°	23428.8	23107.7	21964.7	20954.3	20446.6	18254.6	15337.9	13303.9	14373.0	9790.5	6245.1
70°	25790.7	25462.9	25012.4	25831.0	27073.4	22105.9	15450.5	11752.3	10735.3	6507.4	3758.8
72.5°	22709.4	22556.4	23378.4	26826.3	32000.6	24442.5	13966.2	8556.6	6235.0	3454.6	2175.3
73°	20806.4	20772.8	22174.8	26128.6	32035.9	24082.8	13315.6	7953.0	5347.5	3056.2	1988.7
75°	9395.4	9666.1	12739.0	19957.5	27833.3	19844.8	9371.9	4562.4	3020.9	2111.4	1501.2
77.5°	2257.7	2351.8	3985.8	9477.7	17577.1	11826.2	4246.4	2256.0	1931.5	1491.1	1096.1
80°	961.6	993.5	1534.8	3501.7	8275.9	4762.4	1956.7	1511.3	1336.5	1040.5	768.2
82.5°	534.6	568.1	870.7	1588.6	3340.2	1623.9	1193.6	1052.3	879.2	627.1	499.3
85°	302.6	321.1	509.3	887.6	1415.5	652.2	714.4	699.3	495.9	322.7	245.4
87.5°	142.9	154.7	245.4	411.8	554.7	255.5	363.1	400.1	311.0	196.7	127.8
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°	5283.5	5283.5	5283.5	5283.5	5283.5	5283.5	5283.5	5283.5	5283.5	5283.5
2.5°	5280.2	5310.4	5345.7	5364.3	5381.0	5401.2	5421.4	5421.4	5424.8	5426.4
5°	5243.2	5305.4	5360.9	5384.4	5389.4	5389.4	5384.4	5357.5	5334.0	5344.1
7.5°	5165.9	5256.6	5303.7	5295.3	5231.5	5157.5	5095.3	5019.6	4981.0	4974.2
10°	5054.9	5159.2	5167.5	5083.6	4925.5	4767.5	4636.3	4508.6	4448.1	4433.0
12.5°	4932.3	5028.0	4974.2	4801.1	4547.2	4317.0	4150.5	4021.1	3963.9	3948.8
15°	4833.0	4898.6	4762.4	4490.1	4170.7	3926.9	3789.1	3693.3	3653.0	3641.2
17.5°	4781.0	4794.4	4545.6	4177.4	3837.8	3634.4	3548.7	3503.3	3488.2	3479.8
20°	4806.1	4712.0	4338.8	3886.6	3565.5	3422.6	3402.4	3390.7	3387.3	3382.3
22.5°	4932.3	4686.8	4148.9	3610.9	3326.8	3264.6	3281.4	3279.8	3276.4	3273.0
25°	5157.5	4708.6	3963.9	3348.6	3126.8	3113.4	3143.5	3143.5	3130.1	3130.1
27.5°	5455.0	4754.1	3757.2	3099.8	2945.2	2946.9	2970.4	2963.7	2948.6	2938.5
30°	5818.1	4782.6	3515.1	2876.3	2775.5	2768.7	2775.5	2746.8	2701.4	2698.1
32.5°	6189.7	4747.3	3234.4	2677.9	2595.5	2580.4	2575.4	2535.1	2482.9	2467.8
35°	6525.8	4617.9	2948.6	2519.9	2424.1	2390.4	2414.0	2400.6	2353.5	2341.7
37.5°	6771.3	4377.5	2691.4	2380.4	2301.3	2292.9	2308.1	2313.1	2257.7	2245.9
40°	6936.0	4051.3	2471.1	2262.7	2277.8	2245.9	2195.5	2160.2	2143.4	2138.3
42.5°	7068.8	3711.8	2286.2	2207.2	2282.9	2190.4	2081.2	2024.0	2054.3	2067.7
45°	7221.8	3380.6	2131.6	2138.3	2257.7	2126.5	2002.1	1946.7	1958.4	1961.8
47.5°	7431.9	2977.2	1965.2	2027.4	2173.6	2082.8	1953.4	1874.4	1818.9	1793.6
50°	7722.8	2499.7	1792.0	1903.0	2091.2	2050.9	1877.7	1793.6	1691.1	1667.6
52.5°	7924.5	2054.3	1649.1	1798.8	2017.3	1987.0	1817.2	1707.9	1600.4	1580.2
55°	7815.2	1706.3	1524.7	1682.8	1919.8	1908.0	1766.7	1620.6	1536.5	1519.7
57.5°	7268.9	1486.0	1428.9	1573.5	1800.4	1840.8	1699.5	1546.6	1486.0	1474.3
60°	6226.6	1348.2	1368.4	1499.5	1702.9	1773.5	1632.3	1506.2	1465.9	1457.5
62.5°	4831.4	1255.8	1323.0	1445.7	1627.3	1726.4	1595.3	1501.2	1486.0	1476.0
65°	3461.3	1181.8	1274.3	1391.9	1558.4	1682.8	1581.9	1494.4	1497.8	1489.4
67.5°	2351.8	1116.2	1215.4	1331.4	1491.1	1644.1	1563.4	1470.9	1512.9	1502.8
70°	1645.7	1052.3	1146.5	1254.0	1407.1	1590.3	1529.7	1435.6	1432.2	1391.9
72.5°	1284.3	968.3	1052.3	1146.5	1299.5	1514.6	1462.5	1356.6	1301.1	1259.2
73°	1225.5	948.1	1028.8	1122.9	1275.9	1496.2	1444.0	1334.7	1272.6	1233.9
75°	1013.6	860.7	934.7	1018.8	1175.1	1408.7	1353.3	1235.6	1156.5	1133.0
77.5°	796.8	736.3	806.9	882.6	1035.5	1280.9	1218.7	1106.1	1062.4	1042.3
80°	590.0	610.2	672.4	739.7	897.6	1144.8	1089.3	976.7	1171.7	1122.9
82.5°	415.2	462.3	519.5	580.0	753.1	1012.0	944.8	828.8	857.3	712.8
85°	245.4	302.6	356.4	408.5	543.0	838.8	780.0	660.6	541.3	516.1
87.5°	142.9	168.1	183.2	237.0	373.2	632.1	549.7	489.2	280.7	190.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)