

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: P191566

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T4W-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39152.4 lumens
Efficiency: N/A
Efficacy: 117.2 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

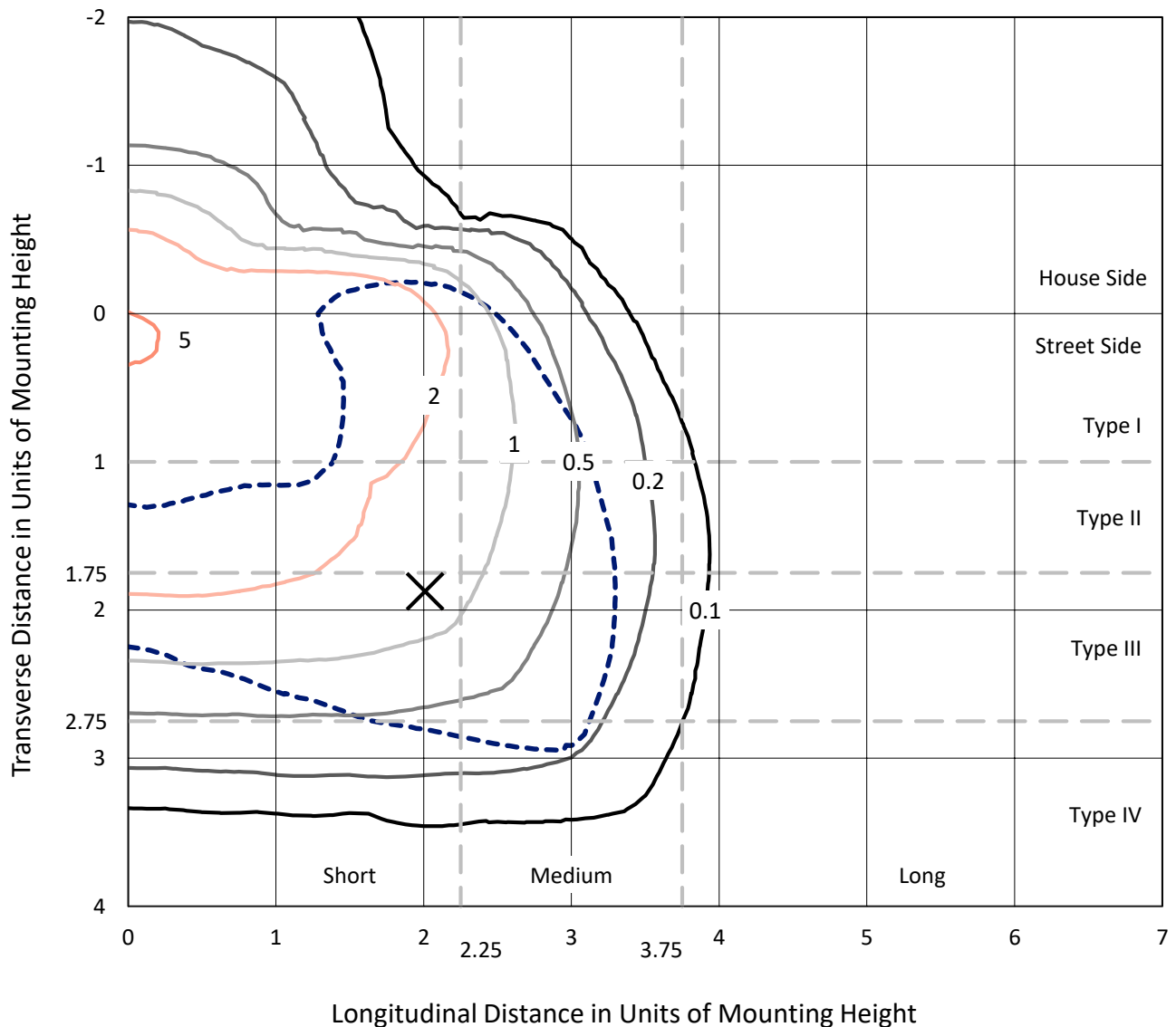
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

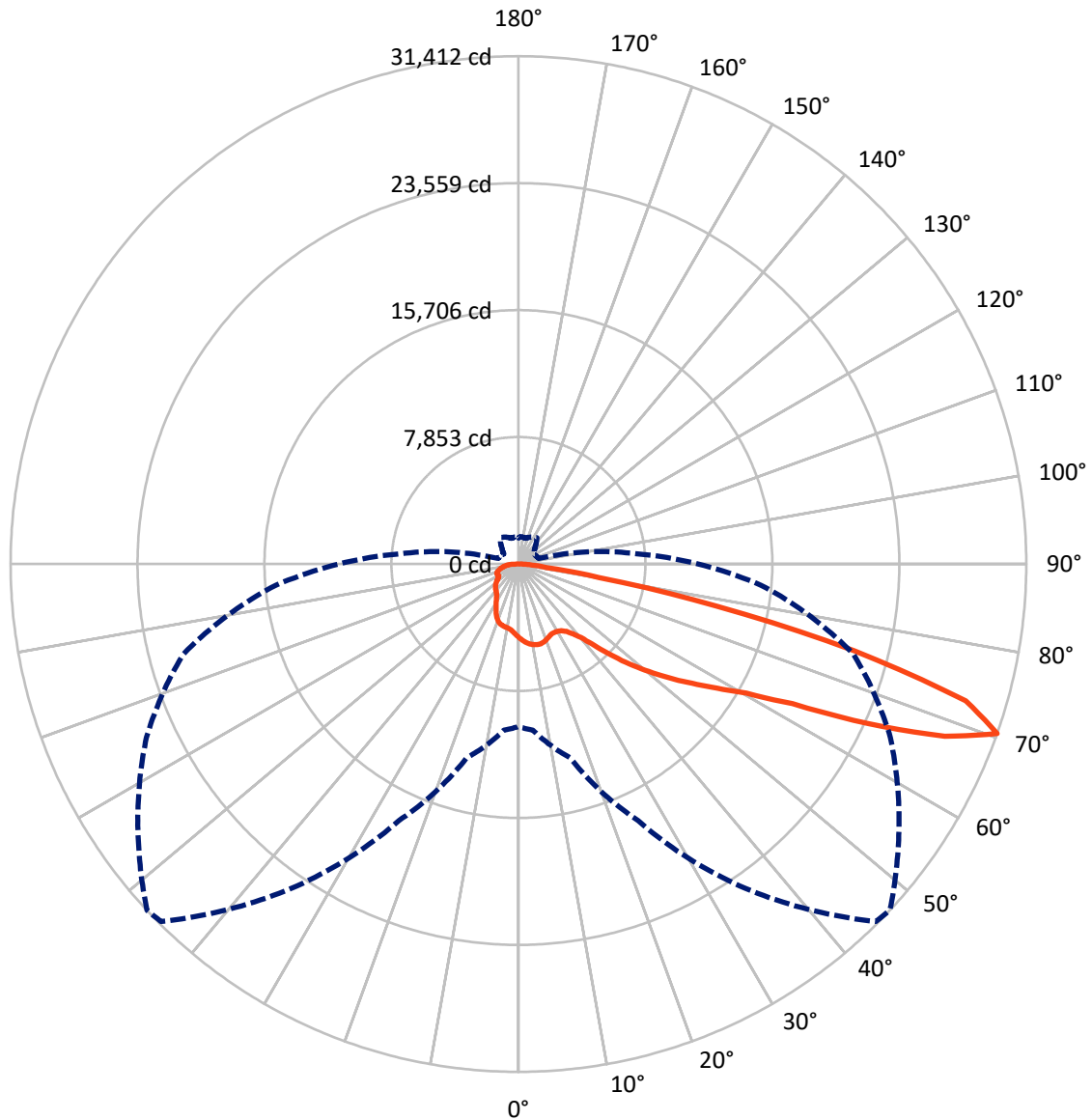
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8168.0	0.0	8168.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	30984.5	0.0	30984.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	39152.4	0.0	39152.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.3	1.1
10°-20°	1277.0	3.3
20°-30°	1885.8	4.8
30°-40°	2741.0	7.0
40°-50°	4932.8	12.6
50°-60°	8545.6	21.8
60°-70°	12197.0	31.2
70°-80°	6261.3	16.0
80°-90°	876.6	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°	39152.4	100.0
0°-180°	39152.4	100.0



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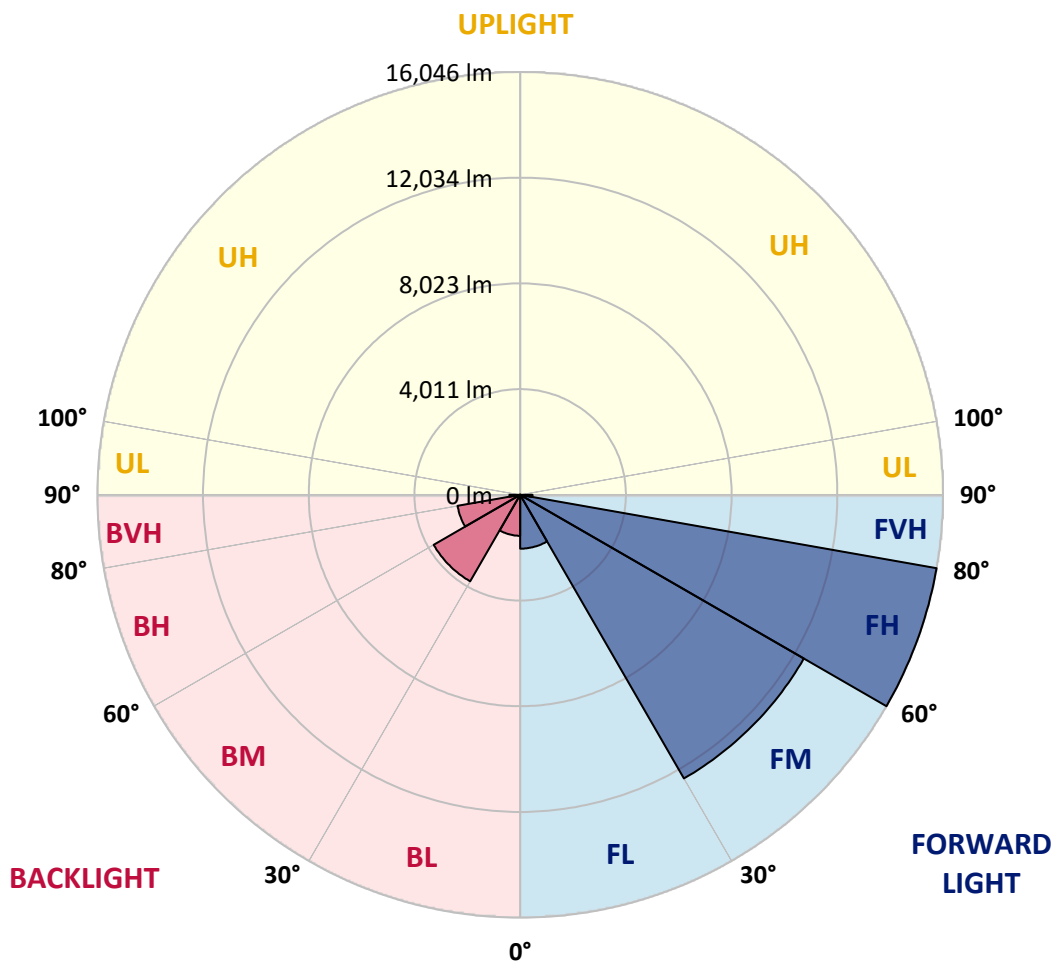
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2042.9	5.2			
FM	(30°-60°)	12428.1	31.7			
FH	(60°-80°)	16045.7	41.0			G5
FVH	(80°-90°)	467.8	1.2			G3/500
BL	(0°-30°)	1555.2	4.0	B3/2500		
BM	(30°-60°)	3791.3	9.7	B3/5000		
BH	(60°-80°)	2412.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	408.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9
2.5°	4809.6	4800.1	4796.2	4788.6	4779.1	4731.5	4721.9	4687.7	4640.0	4590.5	4539.1
5°	5125.8	5123.9	5102.9	5064.8	5003.9	4899.1	4874.4	4790.5	4678.2	4569.5	4461.0
7.5°	5403.8	5386.8	5346.8	5270.5	5163.9	5020.9	4986.7	4870.5	4716.2	4567.7	4421.0
10°	5607.7	5598.1	5510.5	5405.8	5266.8	5108.6	5068.6	4939.1	4769.6	4581.0	4398.2
12.5°	5723.8	5704.8	5603.8	5478.1	5312.4	5158.1	5118.1	4986.7	4796.2	4581.0	4365.7
15°	5716.2	5703.0	5602.0	5464.8	5297.1	5161.9	5125.8	4994.4	4790.5	4562.0	4323.8
17.5°	5563.8	5569.6	5483.8	5348.6	5211.5	5108.6	5076.2	4954.4	4752.4	4523.9	4274.3
20°	5297.1	5323.8	5266.8	5146.7	5070.6	5000.1	4979.1	4876.2	4693.4	4468.7	4221.0
22.5°	5030.6	5055.3	5032.4	4931.4	4920.1	4878.1	4866.7	4792.4	4641.9	4434.3	4188.6
25°	4834.4	4857.2	4853.4	4765.7	4800.1	4798.2	4788.6	4752.4	4630.5	4434.3	4194.3
27.5°	4781.0	4788.6	4781.0	4701.0	4748.6	4786.7	4779.1	4773.4	4664.8	4489.5	4266.7
30°	4963.9	4952.4	4893.4	4731.5	4775.2	4828.6	4821.0	4824.8	4767.7	4634.4	4428.7
32.5°	5693.4	5642.0	5455.3	5000.1	4883.9	4912.4	4916.2	4979.1	4988.6	4857.2	4680.0
35°	6784.8	6727.6	6485.8	5720.0	5221.0	5121.9	5121.9	5217.2	5274.3	5177.2	5070.6
37.5°	7941.1	7878.2	7748.6	6718.1	5929.5	5485.8	5476.3	5542.9	5624.8	5647.7	5674.3
40°	9255.4	9188.7	9224.9	7838.2	6918.1	6116.2	5981.0	5933.4	6154.4	6301.0	6514.4
42.5°	10693.4	10662.9	10676.3	9085.8	8043.9	7059.1	6866.8	6621.0	6887.7	7148.7	7596.2
45°	12024.9	12051.6	12038.2	10421.0	9297.2	8209.6	8005.8	7529.6	7790.6	8238.1	8967.7
47.5°	13190.6	13080.2	13251.5	11880.1	10701.1	9497.3	9245.8	8607.7	8872.5	9424.9	10659.1
50°	14605.9	14590.7	14339.2	13826.8	12398.2	10790.6	10461.0	9722.0	10133.5	10901.1	12790.6
52.5°	16093.5	15817.3	15586.8	15341.1	14198.3	12116.3	11712.5	10832.4	11615.3	12581.1	15388.8
55°	16398.2	16274.4	16560.1	16973.5	15933.5	13493.4	13023.0	12224.9	13283.9	14501.0	18385.0
57.5°	17049.7	17047.8	17638.2	18375.4	17720.2	14954.4	14480.2	13906.8	15160.1	16701.1	21566.0
60°	17489.7	17613.5	18710.7	20141.2	19474.4	16642.1	16205.9	15847.8	17293.5	19160.2	24529.7
62.5°	17720.2	17887.8	19384.9	20857.4	21954.5	19451.6	19015.4	18499.2	20116.3	21857.4	26263.1
65°	16762.1	17091.6	19280.2	21476.3	24126.0	24005.9	23809.8	22903.1	23645.9	23988.8	25636.5
67.5°	14110.6	14447.7	16996.3	20899.2	25676.5	28398.3	28440.3	26891.6	25817.3	24171.6	21554.5
70°	10053.5	10318.2	12426.8	17522.0	24495.5	31268.8	31411.8	28729.8	25385.0	21436.3	15059.2
72.5°	4773.4	4935.3	6931.5	11404.0	19438.3	28649.8	28926.0	26383.1	21585.0	15870.7	8215.3
75°	1754.3	1803.9	2342.9	4851.4	11274.4	21127.8	21453.5	18912.5	14308.7	7901.1	3129.5
77.5°	1051.4	1083.8	1314.3	2047.6	4434.3	12076.3	12558.3	10285.8	6253.4	2941.0	1539.0
80°	735.2	758.1	942.9	1274.3	2095.2	4601.9	5030.6	4198.1	2491.5	1861.0	1120.0
82.5°	497.2	508.6	662.9	860.9	1392.4	1643.8	1773.4	1866.7	1680.0	1384.8	710.4
85°	325.7	337.2	449.5	567.6	885.8	849.6	868.6	1099.1	1226.7	940.9	394.2
87.5°	186.7	194.3	270.5	302.9	434.2	360.0	363.9	579.1	784.8	634.3	240.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9	4542.9
2.5°	4525.7	4501.0	4445.7	4411.5	4379.0	4371.5	4358.2	4356.2	4354.3	4354.3	4348.6
5°	4424.8	4382.9	4297.2	4249.5	4209.5	4205.8	4203.8	4213.3	4217.2	4221.0	4215.3
7.5°	4360.0	4302.9	4196.2	4127.6	4080.0	4068.6	4087.6	4131.5	4160.0	4171.5	4165.8
10°	4320.0	4249.5	4125.8	4051.5	4011.5	4005.8	4030.5	4082.0	4141.0	4163.8	4162.0
12.5°	4274.3	4194.3	4062.9	3984.8	3962.0	3973.3	4005.8	4053.3	4114.3	4150.5	4152.5
15°	4228.6	4135.3	4000.0	3931.5	3921.9	3937.1	3967.6	4003.8	4051.5	4087.6	4091.5
17.5°	4173.3	4076.3	3941.0	3870.5	3862.9	3870.5	3872.4	3891.5	3921.9	3956.3	3965.8
20°	4114.3	4015.3	3874.3	3803.8	3769.6	3739.1	3704.8	3708.6	3718.1	3752.4	3760.1
22.5°	4072.5	3973.3	3822.9	3725.8	3634.3	3542.9	3474.4	3464.8	3468.6	3497.2	3506.7
25°	4076.3	3971.5	3809.6	3641.9	3441.9	3295.2	3203.9	3188.6	3186.7	3207.7	3221.0
27.5°	4150.5	4045.8	3859.1	3556.2	3232.4	3015.2	2918.2	2906.7	2891.5	2897.2	2912.4
30°	4316.2	4219.1	3979.1	3468.6	3005.7	2741.0	2640.0	2628.6	2607.6	2598.1	2609.5
32.5°	4586.7	4506.7	4154.3	3384.8	2779.1	2506.7	2403.8	2379.1	2365.8	2354.3	2363.8
35°	5036.2	5001.9	4388.6	3293.4	2579.1	2325.8	2232.4	2194.3	2175.3	2196.2	2211.4
37.5°	5741.0	5760.0	4695.2	3150.5	2424.8	2205.7	2127.6	2083.9	2055.2	2072.4	2089.6
40°	6739.1	6752.4	5034.4	2948.6	2291.4	2135.3	2051.4	2011.4	1971.4	1940.9	1939.1
42.5°	8049.6	7914.4	5367.6	2729.5	2137.1	2091.4	1998.1	1948.6	1887.7	1803.9	1786.7
45°	9603.9	9129.6	5621.0	2478.1	1963.9	2038.1	1939.1	1870.5	1775.2	1683.8	1674.3
47.5°	11394.3	10434.4	5744.8	2217.1	1801.9	1960.0	1866.7	1758.1	1638.2	1592.4	1586.7
50°	13581.1	11982.9	5803.8	1963.9	1661.0	1857.2	1761.9	1634.3	1533.3	1523.8	1518.1
52.5°	16070.7	13845.8	5822.9	1756.2	1544.8	1723.9	1676.2	1552.4	1472.4	1480.0	1480.0
55°	18676.3	15769.7	5563.8	1605.7	1438.1	1586.7	1619.0	1520.0	1453.3	1483.8	1495.2
57.5°	21068.8	17474.5	4748.6	1489.5	1337.2	1481.9	1598.2	1550.5	1504.8	1628.5	1636.2
60°	22905.0	18482.1	3546.7	1384.8	1262.8	1445.7	1653.4	1666.7	1678.2	1973.4	2013.4
62.5°	23289.7	18146.8	2438.1	1302.8	1228.6	1476.2	1754.3	1756.2	1742.9	1948.6	1973.4
65°	21524.0	16026.8	1773.4	1257.1	1200.0	1531.5	1840.0	1800.0	1712.4	1868.6	1822.9
67.5°	17093.5	12074.4	1476.2	1222.8	1158.1	1527.7	1931.4	1840.0	1695.2	1830.5	1756.2
70°	11095.3	7301.0	1314.3	1194.3	1108.6	1455.2	1984.8	1836.2	1645.7	1702.9	1615.2
72.5°	5413.4	3264.7	1205.8	1152.4	1057.1	1354.3	1982.9	1801.9	1594.3	1590.5	1542.9
75°	2118.1	1495.2	1106.6	1089.5	969.6	1240.0	1929.6	1752.4	1533.3	1472.4	1455.2
77.5°	1240.0	1066.6	981.0	996.1	864.8	1125.8	1851.4	1666.7	1449.5	1377.2	1358.1
80°	902.9	798.1	836.2	860.9	739.1	1011.4	1746.7	1561.9	1356.2	1392.4	1365.7
82.5°	579.1	514.3	678.1	702.9	615.2	895.3	1632.4	1451.5	1224.8	1112.4	1085.8
85°	295.2	325.7	504.7	535.2	474.2	735.2	1493.3	1304.8	1076.2	925.8	940.9
87.5°	165.7	222.9	321.9	360.0	335.2	565.7	1211.5	1076.2	878.1	714.3	628.6
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)