

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: P192374

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192374
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-06-LED-E1-T4W-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35352 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

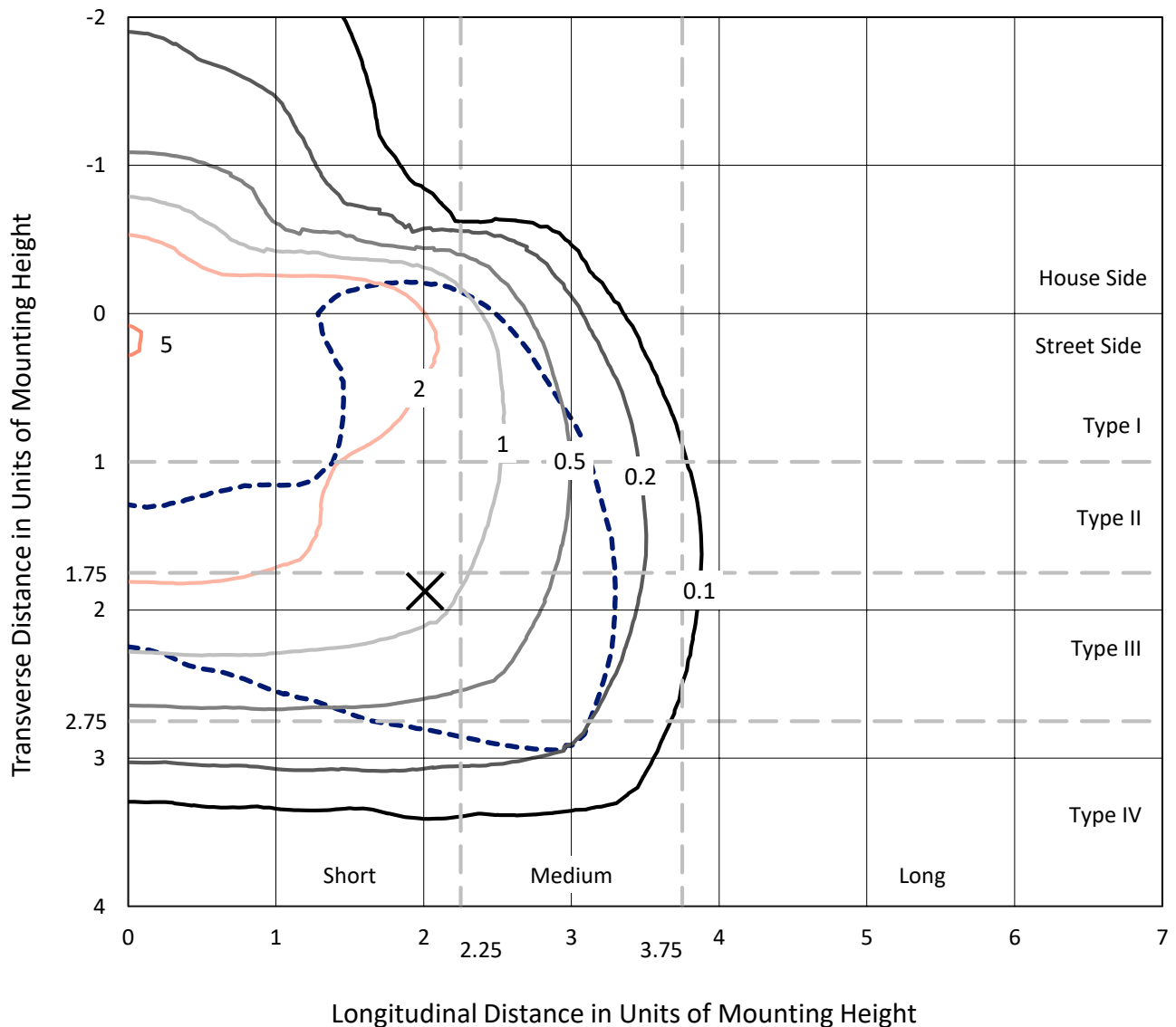
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

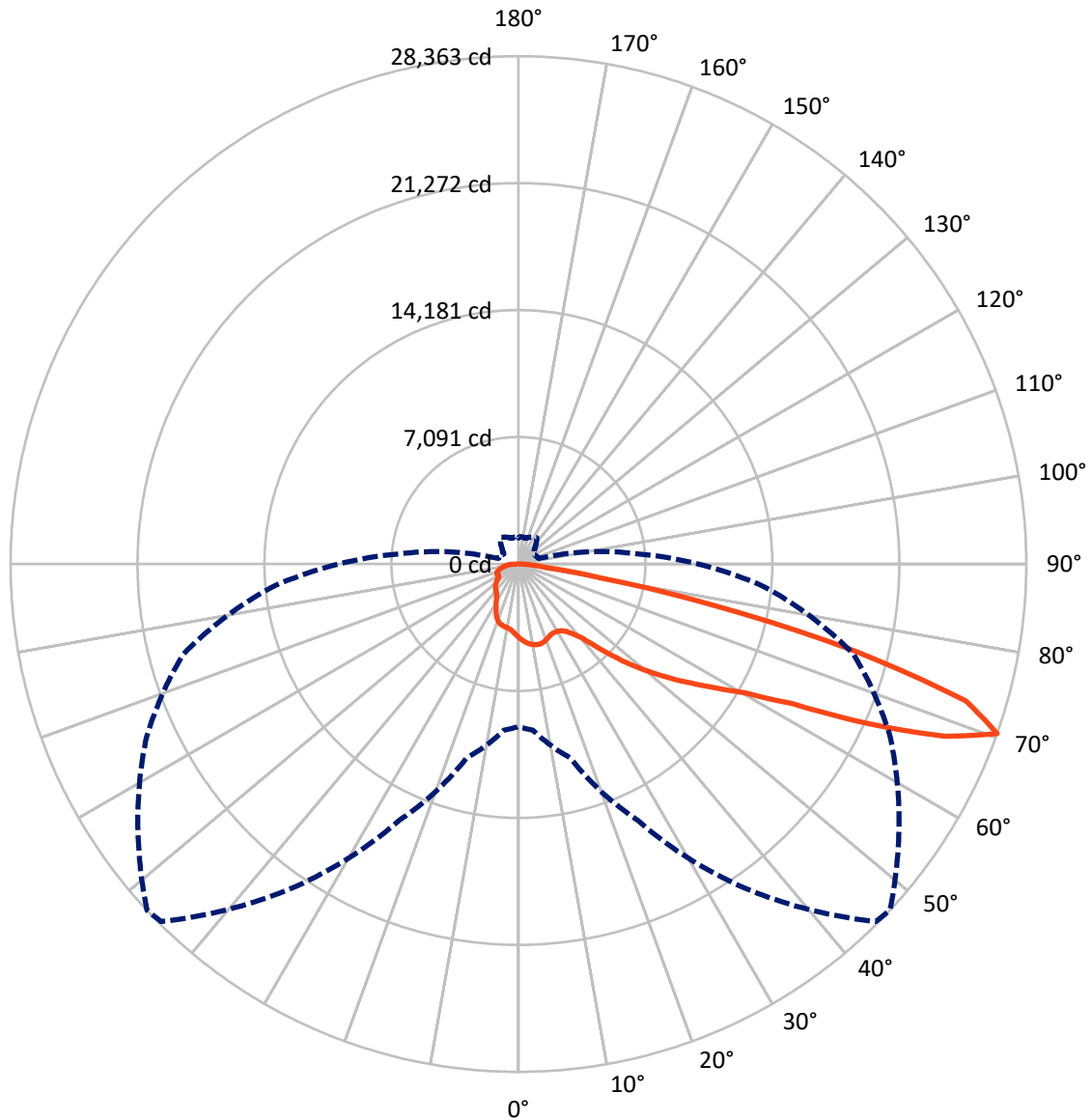
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	7375.1	0.0	7375.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	27976.9	0.0	27976.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	35352.0	0.0	35352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.0	1.1
10°-20°	1153.1	3.3
20°-30°	1702.8	4.8
30°-40°	2474.9	7.0
40°-50°	4454.0	12.6
50°-60°	7716.1	21.8
60°-70°	11013.1	31.2
70°-80°	5653.5	16.0
80°-90°	791.5	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°	35352.0	100.0
0°-180°	35352.0	100.0

Coefficient of Utilization



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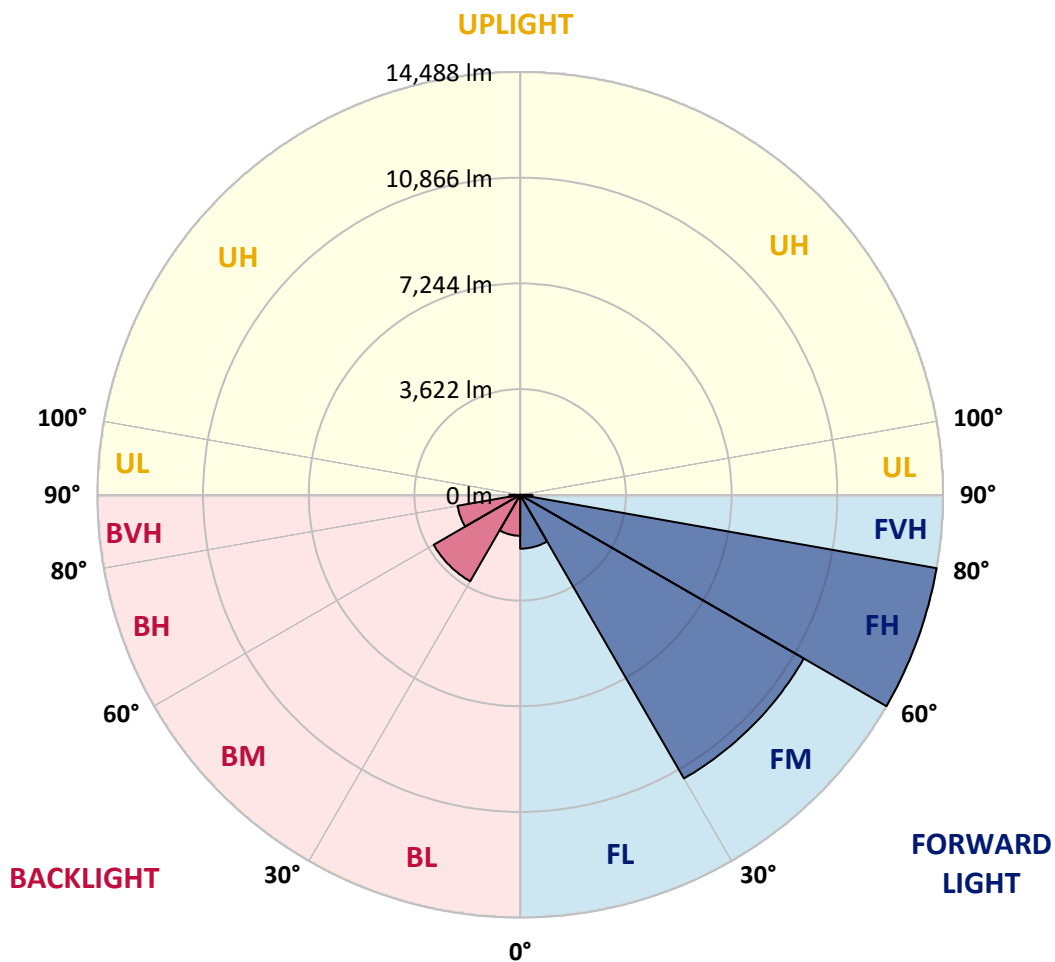
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1844.6	5.2			
FM	(30°-60°)	11221.7	31.7			
FH	(60°-80°)	14488.2	41.0			G5
FVH	(80°-90°)	422.4	1.2			G3/500
BL	(0°-30°)	1404.3	4.0	B3/2500		
BM	(30°-60°)	3423.3	9.7	B3/5000		
BH	(60°-80°)	2178.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	369.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9
2.5°	4342.7	4334.1	4330.7	4323.8	4315.2	4272.2	4263.6	4232.6	4189.6	4144.9	4098.5
5°	4628.2	4626.5	4607.6	4573.2	4518.1	4423.6	4401.2	4325.5	4224.0	4126.0	4028.0
7.5°	4879.3	4863.8	4827.7	4758.9	4662.6	4533.6	4502.7	4397.8	4258.4	4124.3	3991.9
10°	5063.3	5054.8	4975.6	4881.0	4755.5	4612.7	4576.6	4459.7	4306.6	4136.3	3971.2
12.5°	5168.3	5151.1	5059.9	4946.4	4796.8	4657.5	4621.3	4502.7	4330.7	4136.3	3942.0
15°	5161.4	5149.3	5058.2	4934.4	4783.0	4660.9	4628.2	4509.5	4325.5	4119.1	3904.1
17.5°	5023.8	5029.0	4951.6	4829.4	4705.6	4612.7	4583.5	4473.4	4291.1	4084.7	3859.4
20°	4783.0	4807.1	4755.5	4647.1	4578.3	4514.7	4495.8	4402.9	4237.8	4034.9	3811.3
22.5°	4542.2	4564.6	4543.9	4452.8	4442.5	4404.6	4394.3	4327.2	4191.4	4003.9	3782.0
25°	4365.1	4385.7	4382.3	4303.2	4334.1	4332.4	4323.8	4291.1	4181.0	4003.9	3787.2
27.5°	4316.9	4323.8	4316.9	4244.7	4287.7	4322.1	4315.2	4310.0	4212.0	4053.8	3852.5
30°	4482.0	4471.7	4418.4	4272.2	4311.8	4359.9	4353.0	4356.5	4304.9	4184.5	3998.7
32.5°	5140.7	5094.3	4925.8	4514.7	4409.8	4435.6	4439.0	4495.8	4504.4	4385.7	4225.8
35°	6126.2	6074.6	5856.2	5164.8	4714.2	4624.8	4624.8	4710.8	4762.4	4674.7	4578.3
37.5°	7170.2	7113.5	6996.5	6066.0	5354.0	4953.3	4944.7	5004.9	5078.8	5099.5	5123.5
40°	8356.9	8296.7	8329.4	7077.3	6246.6	5522.6	5400.4	5357.5	5557.0	5689.4	5882.0
42.5°	9655.5	9627.9	9640.0	8203.9	7263.1	6373.9	6200.2	5978.3	6219.1	6454.7	6858.9
45°	10857.7	10881.7	10869.7	9409.5	8394.8	7412.7	7228.7	6798.7	7034.3	7438.5	8097.2
47.5°	11910.2	11810.5	11965.3	10726.9	9662.3	8575.4	8348.3	7772.2	8011.2	8510.0	9624.5
50°	13188.1	13174.3	12947.3	12484.7	11194.8	9743.2	9445.6	8778.3	9149.8	9842.9	11549.0
52.5°	14531.3	14281.9	14073.8	13852.0	12820.0	10940.2	10575.6	9781.0	10487.9	11359.9	13895.0
55°	14806.5	14694.7	14952.7	15325.9	14386.9	12183.7	11758.9	11038.2	11994.5	13093.5	16600.4
57.5°	15394.7	15393.0	15926.2	16591.8	16000.1	13502.8	13074.6	12556.9	13688.6	15080.0	19472.6
60°	15792.0	15903.8	16894.5	18186.1	17584.1	15026.7	14632.8	14309.5	15614.9	17300.4	22148.7
62.5°	16000.1	16151.5	17503.3	18832.8	19823.4	17563.5	17169.6	16703.6	18163.7	19735.7	23713.8
65°	15135.0	15432.6	17408.7	19391.7	21784.1	21675.7	21498.6	20679.9	21350.7	21660.3	23148.0
67.5°	12740.9	13045.3	15346.6	18870.6	23184.1	25641.8	25679.6	24281.4	23311.4	21825.4	19462.3
70°	9077.6	9316.6	11220.5	15821.2	22117.8	28233.7	28362.7	25941.1	22920.9	19355.6	13597.4
72.5°	4310.0	4456.2	6258.7	10297.0	17551.5	25868.8	26118.2	23822.2	19489.8	14330.1	7417.9
75°	1584.0	1628.7	2115.5	4380.6	10180.0	19077.0	19371.1	17076.8	12919.8	7134.1	2825.8
77.5°	949.4	978.6	1186.7	1848.9	4003.9	10904.1	11339.2	9287.4	5646.4	2655.5	1389.7
80°	663.9	684.5	851.3	1150.6	1891.9	4155.2	4542.2	3790.6	2249.6	1680.3	1011.3
82.5°	448.9	459.2	598.5	777.4	1257.2	1484.3	1601.2	1685.5	1516.9	1250.4	641.5
85°	294.1	304.4	405.9	512.5	799.7	767.1	784.3	992.4	1107.6	849.6	356.0
87.5°	168.5	175.4	244.2	273.5	392.1	325.1	328.5	522.8	708.6	572.7	216.7
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°	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9	4101.9
2.5°	4086.5	4064.1	4014.2	3983.3	3954.0	3947.1	3935.1	3933.4	3931.7	3931.7	3926.5
5°	3995.3	3957.5	3880.1	3837.1	3801.0	3797.5	3795.8	3804.4	3807.8	3811.3	3806.1
7.5°	3936.8	3885.2	3788.9	3727.0	3684.0	3673.7	3690.9	3730.4	3756.2	3766.6	3761.4
10°	3900.7	3837.1	3725.3	3658.2	3622.1	3616.9	3639.3	3685.7	3739.0	3759.7	3758.0
12.5°	3859.4	3787.2	3668.5	3598.0	3577.4	3587.7	3616.9	3659.9	3715.0	3747.6	3749.4
15°	3818.2	3733.9	3611.8	3549.8	3541.2	3555.0	3582.5	3615.2	3658.2	3690.9	3694.3
17.5°	3768.3	3680.6	3558.4	3494.8	3487.9	3494.8	3496.5	3513.7	3541.2	3572.2	3580.8
20°	3715.0	3625.5	3498.3	3434.6	3403.7	3376.1	3345.2	3348.6	3357.2	3388.2	3395.1
22.5°	3677.1	3587.7	3451.8	3364.1	3281.5	3199.0	3137.1	3128.5	3131.9	3157.7	3166.3
25°	3680.6	3586.0	3439.8	3288.4	3107.8	2975.4	2892.9	2879.1	2877.4	2896.3	2908.3
27.5°	3747.6	3653.0	3484.5	3211.0	2918.6	2722.6	2634.9	2624.5	2610.8	2615.9	2629.7
30°	3897.3	3809.6	3592.8	3131.9	2714.0	2474.9	2383.8	2373.4	2354.5	2345.9	2356.2
32.5°	4141.5	4069.3	3751.1	3056.2	2509.3	2263.4	2170.5	2148.1	2136.1	2125.8	2134.4
35°	4547.4	4516.4	3962.6	2973.7	2328.7	2100.0	2015.7	1981.3	1964.1	1983.0	1996.8
37.5°	5183.7	5200.9	4239.5	2844.7	2189.4	1991.6	1921.1	1881.6	1855.8	1871.2	1886.7
40°	6085.0	6097.0	4545.7	2662.4	2069.0	1928.0	1852.3	1816.2	1780.1	1752.6	1750.8
42.5°	7268.2	7146.1	4846.6	2464.6	1929.7	1888.4	1804.2	1759.4	1704.4	1628.7	1613.3
45°	8671.7	8243.4	5075.4	2237.6	1773.2	1840.3	1750.8	1688.9	1602.9	1520.4	1511.8
47.5°	10288.4	9421.5	5187.2	2001.9	1627.0	1769.8	1685.5	1587.5	1479.1	1437.8	1432.7
50°	12262.8	10819.8	5240.5	1773.2	1499.7	1676.9	1590.9	1475.7	1384.5	1375.9	1370.8
52.5°	14510.7	12501.9	5257.7	1585.7	1394.8	1556.5	1513.5	1401.7	1329.5	1336.4	1336.4
55°	16863.5	14239.0	5023.8	1449.9	1298.5	1432.7	1461.9	1372.5	1312.3	1339.8	1350.1
57.5°	19023.7	15778.3	4287.7	1345.0	1207.4	1338.1	1443.0	1400.0	1358.7	1470.5	1477.4
60°	20681.7	16688.1	3202.4	1250.4	1140.3	1305.4	1492.9	1504.9	1515.2	1781.8	1817.9
62.5°	21029.1	16385.4	2201.5	1176.4	1109.3	1332.9	1584.0	1585.7	1573.7	1759.4	1781.8
65°	19434.7	14471.1	1601.2	1135.1	1083.5	1382.8	1661.4	1625.3	1546.2	1687.2	1645.9
67.5°	15434.3	10902.4	1332.9	1104.2	1045.7	1379.4	1744.0	1661.4	1530.7	1652.8	1585.7
70°	10018.3	6592.3	1186.7	1078.4	1001.0	1314.0	1792.1	1658.0	1486.0	1537.6	1458.5
72.5°	4887.9	2947.9	1088.7	1040.5	954.5	1222.8	1790.4	1627.0	1439.5	1436.1	1393.1
75°	1912.5	1350.1	999.3	983.8	875.4	1119.6	1742.2	1582.3	1384.5	1329.5	1314.0
77.5°	1119.6	963.1	885.7	899.5	780.8	1016.5	1671.7	1504.9	1308.8	1243.5	1226.3
80°	815.2	720.6	755.0	777.4	667.3	913.3	1577.1	1410.3	1224.6	1257.2	1233.2
82.5°	522.8	464.4	612.3	634.6	555.5	808.3	1473.9	1310.6	1105.9	1004.4	980.3
85°	266.6	294.1	455.8	483.3	428.3	663.9	1348.4	1178.1	971.7	835.9	849.6
87.5°	149.6	201.2	290.7	325.1	302.7	510.8	1093.8	971.7	792.9	645.0	567.6
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)