

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: P192358

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192358
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-10-LED-E1-T4W-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38547 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

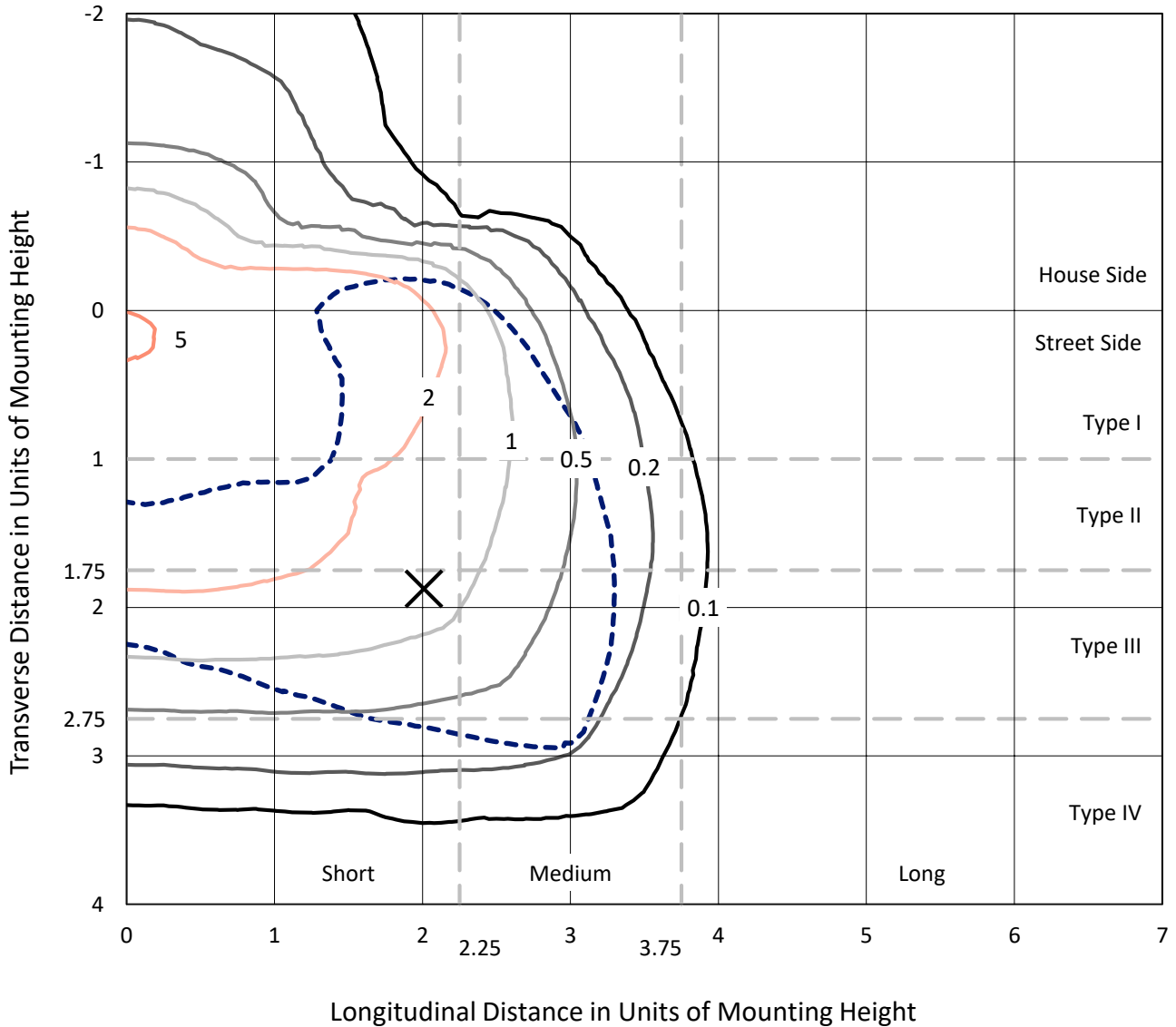


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

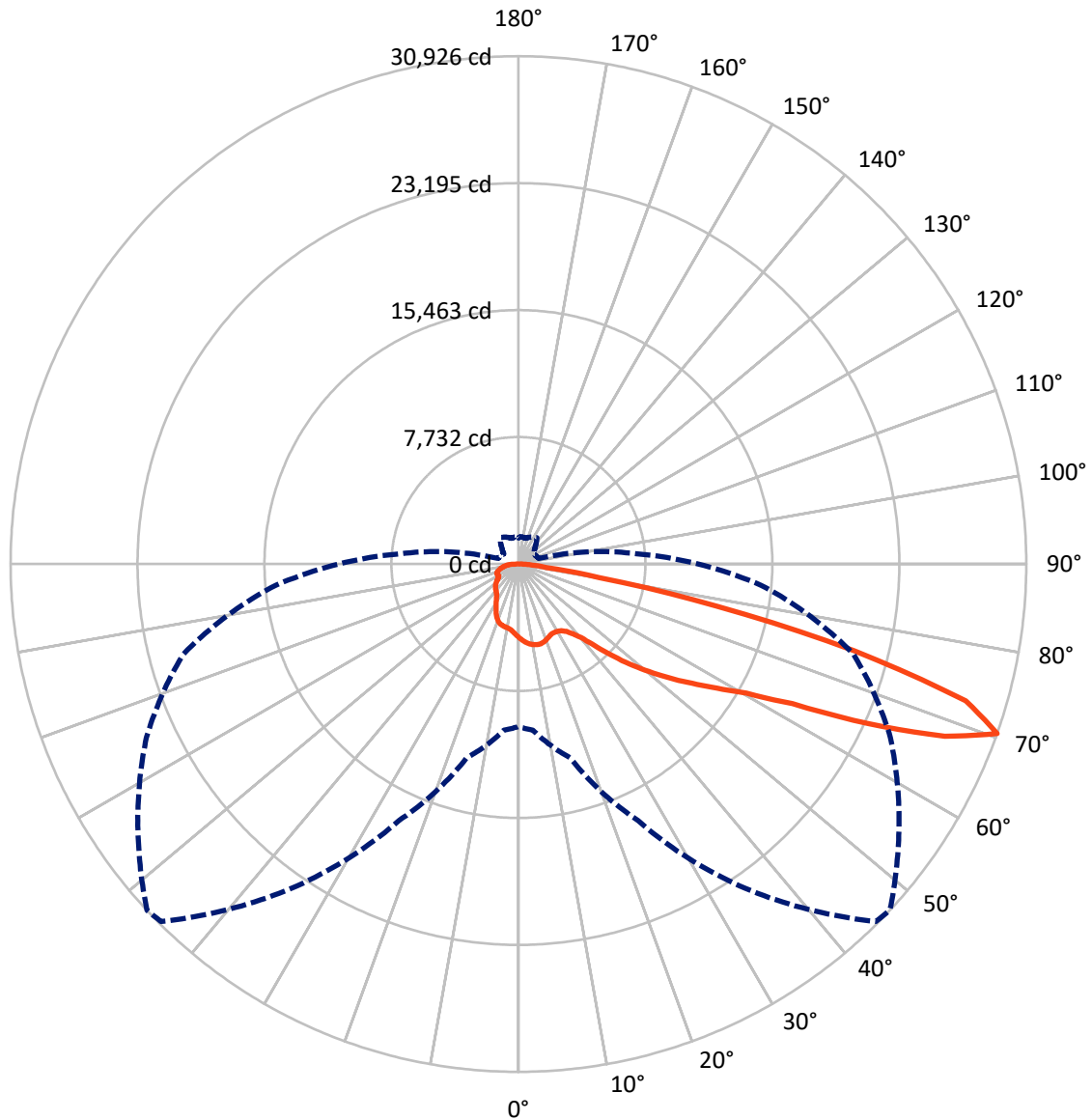


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Semi-Cutoff

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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	8041.7	0.0	8041.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	30505.3	0.0	30505.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	38547.0	0.0	38547.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.6	1.1
10°-20°	1257.3	3.3
20°-30°	1856.7	4.8
30°-40°	2698.6	7.0
40°-50°	4856.5	12.6
50°-60°	8413.4	21.8
60°-70°	12008.4	31.2
70°-80°	6164.5	16.0
80°-90°	863.0	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°	38547.0	100.0
0°-180°	38547.0	100.0



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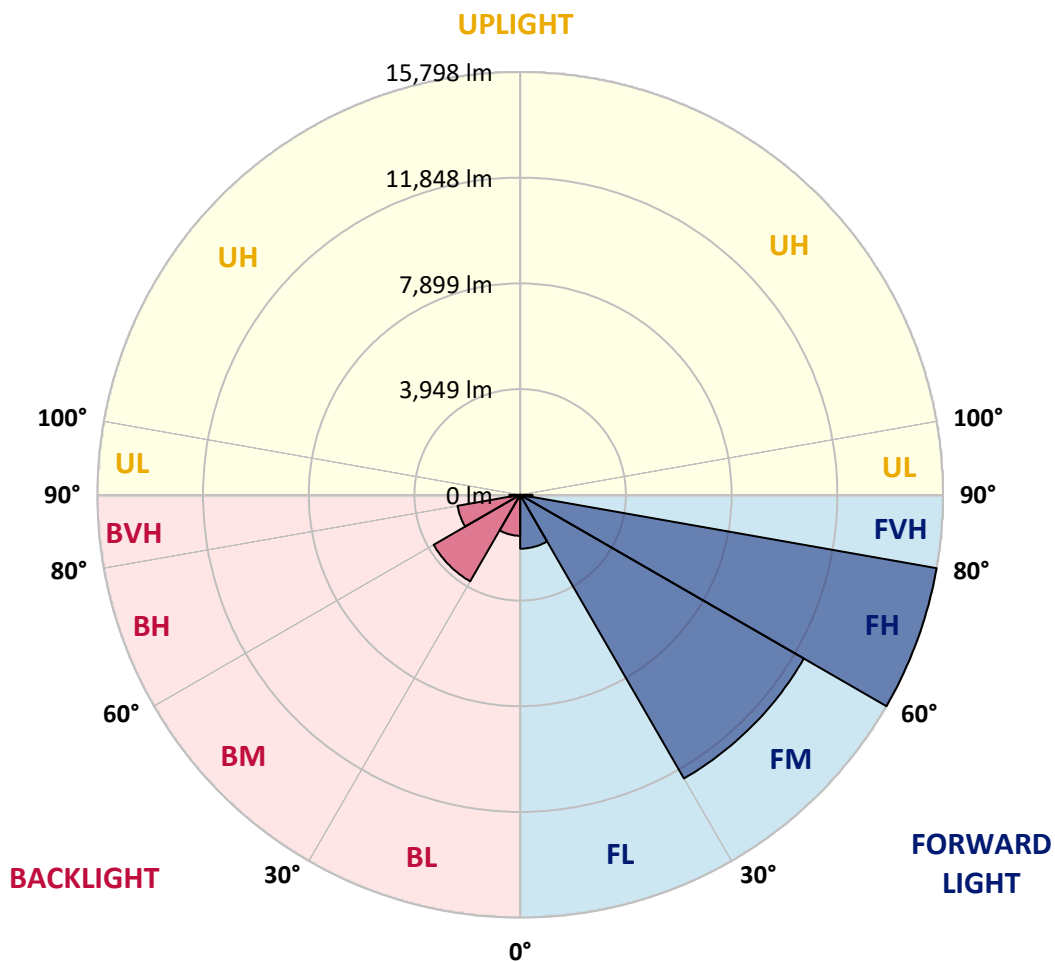
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2011.3	5.2			
FM	(30°-60°)	12235.9	31.7			
FH	(60°-80°)	15797.6	41.0			G5
FVH	(80°-90°)	460.5	1.2			G3/500
BL	(0°-30°)	1531.2	4.0	B3/2500		
BM	(30°-60°)	3732.7	9.7	B3/5000		
BH	(60°-80°)	2375.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	402.5	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°	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7
2.5°	4735.2	4725.8	4722.1	4714.6	4705.2	4658.3	4648.9	4615.2	4568.3	4519.5	4468.9
5°	5046.5	5044.6	5024.0	4986.5	4926.5	4823.3	4799.0	4716.4	4605.8	4498.9	4392.0
7.5°	5320.3	5303.4	5264.0	5189.0	5084.0	4943.4	4909.6	4795.2	4643.3	4497.0	4352.6
10°	5521.0	5511.6	5425.3	5322.2	5185.3	5029.6	4990.2	4862.7	4695.8	4510.2	4330.1
12.5°	5635.4	5616.6	5517.2	5393.4	5230.3	5078.4	5039.0	4909.6	4722.1	4510.2	4298.2
15°	5627.9	5614.7	5515.3	5380.3	5215.3	5082.1	5046.5	4917.1	4716.4	4491.4	4257.0
17.5°	5477.8	5483.5	5399.1	5265.9	5130.9	5029.6	4997.7	4877.7	4678.9	4453.9	4208.2
20°	5215.3	5241.5	5185.3	5067.1	4992.1	4922.7	4902.1	4800.8	4620.8	4399.5	4155.7
22.5°	4952.7	4977.1	4954.6	4855.2	4844.0	4802.7	4791.5	4718.3	4570.2	4365.8	4123.8
25°	4759.6	4782.1	4778.3	4692.1	4725.8	4723.9	4714.6	4678.9	4558.9	4365.8	4129.5
27.5°	4707.1	4714.6	4707.1	4628.3	4675.2	4712.7	4705.2	4699.6	4592.7	4420.1	4200.7
30°	4887.1	4875.8	4817.7	4658.3	4701.4	4754.0	4746.4	4750.2	4693.9	4562.7	4360.1
32.5°	5605.3	5554.7	5370.9	4922.7	4808.3	4836.5	4840.2	4902.1	4911.5	4782.1	4607.7
35°	6679.9	6623.7	6385.5	5631.6	5140.3	5042.8	5042.8	5136.5	5192.8	5097.1	4992.1
37.5°	7818.2	7756.3	7628.8	6614.3	5837.9	5400.9	5391.6	5457.2	5537.8	5560.3	5586.6
40°	9112.2	9046.6	9082.2	7717.0	6811.2	6021.7	5888.5	5841.6	6059.2	6203.6	6413.6
42.5°	10528.1	10498.1	10511.2	8945.3	7919.5	6950.0	6760.5	6518.6	6781.2	7038.1	7478.8
45°	11838.9	11865.2	11852.1	10259.9	9153.5	8082.7	7882.0	7413.2	7670.1	8110.8	8829.0
47.5°	12986.6	12877.9	13046.6	11696.4	10535.6	9350.4	9102.8	8474.6	8735.3	9279.1	10494.3
50°	14380.0	14365.0	14117.5	13613.0	12206.5	10623.7	10299.3	9571.7	9976.7	10732.5	12592.8
52.5°	15844.6	15572.7	15345.8	15103.9	13978.7	11928.9	11531.4	10665.0	11435.7	12386.5	15150.8
55°	16144.7	16022.8	16304.1	16711.0	15687.1	13284.8	12821.6	12035.8	13078.5	14276.9	18100.6
57.5°	16786.0	16784.2	17365.5	18091.3	17446.2	14723.2	14256.2	13691.8	14925.7	16442.9	21232.4
60°	17219.2	17341.1	18421.3	19829.7	19173.3	16384.7	15955.3	15602.7	17026.1	18863.9	24150.4
62.5°	17446.2	17611.2	19085.2	20534.8	21615.0	19150.8	18721.4	18213.2	19805.3	21519.4	25857.0
65°	16502.9	16827.3	18982.0	21144.3	23752.9	23634.7	23441.6	22548.9	23280.3	23617.9	25240.0
67.5°	13892.4	14224.3	16733.5	20576.1	25279.4	27959.2	28000.5	26475.8	25418.2	23797.9	21221.2
70°	9898.0	10158.6	12234.6	17251.1	24116.7	30785.3	30926.0	28285.5	24992.5	21104.9	14826.3
72.5°	4699.6	4859.0	6824.3	11227.6	19137.7	28206.8	28478.7	25975.1	21251.2	15625.2	8088.3
75°	1727.2	1775.9	2306.7	4776.5	11100.1	20801.1	21121.8	18620.1	14087.4	7778.9	3081.2
77.5°	1035.2	1067.1	1294.0	2016.0	4365.8	11889.6	12364.0	10126.8	6156.7	2895.5	1515.3
80°	723.9	746.4	928.3	1254.6	2062.9	4530.8	4952.7	4133.2	2452.9	1832.2	1102.7
82.5°	489.5	500.7	652.6	847.6	1370.9	1618.4	1745.9	1837.8	1654.0	1363.4	699.5
85°	320.7	331.9	442.6	558.8	872.0	836.4	855.1	1082.1	1207.7	926.4	388.2
87.5°	183.8	191.3	266.3	298.2	427.6	354.4	358.2	570.1	772.6	624.5	236.3
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°	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7	4472.7
2.5°	4455.8	4431.4	4377.0	4343.3	4311.4	4303.9	4290.7	4288.9	4287.0	4287.0	4281.4
5°	4356.4	4315.1	4230.7	4183.9	4144.5	4140.7	4138.8	4148.2	4152.0	4155.7	4150.1
7.5°	4292.6	4236.4	4131.3	4063.8	4016.9	4005.7	4024.4	4067.6	4095.7	4107.0	4101.3
10°	4253.2	4183.9	4062.0	3988.8	3949.4	3943.8	3968.2	4018.8	4077.0	4099.5	4097.6
12.5°	4208.2	4129.5	4000.1	3923.2	3900.7	3911.9	3943.8	3990.7	4050.7	4086.3	4088.2
15°	4163.2	4071.3	3938.2	3870.7	3861.3	3876.3	3906.3	3941.9	3988.8	4024.4	4028.2
17.5°	4108.8	4013.2	3880.0	3810.7	3803.2	3810.7	3812.5	3831.3	3861.3	3895.1	3904.4
20°	4050.7	3953.2	3814.4	3745.0	3711.3	3681.3	3647.5	3651.3	3660.6	3694.4	3701.9
22.5°	4009.4	3911.9	3763.8	3668.1	3578.1	3488.1	3420.6	3411.2	3415.0	3443.1	3452.5
25°	4013.2	3910.1	3750.7	3585.6	3388.7	3244.3	3154.3	3139.3	3137.4	3158.0	3171.2
27.5°	4086.3	3983.2	3799.4	3501.2	3182.4	2968.6	2873.0	2861.7	2846.7	2852.4	2867.4
30°	4249.5	4153.8	3917.6	3415.0	2959.3	2698.6	2599.2	2587.9	2567.3	2557.9	2569.2
32.5°	4515.8	4437.0	4090.1	3332.5	2736.1	2467.9	2366.7	2342.3	2329.2	2317.9	2327.3
35°	4958.4	4924.6	4320.8	3242.4	2539.2	2289.8	2197.9	2160.4	2141.6	2162.3	2177.3
37.5°	5652.2	5671.0	4622.7	3101.8	2387.3	2171.6	2094.7	2051.6	2023.5	2040.4	2057.2
40°	6634.9	6648.0	4956.5	2903.0	2256.0	2102.2	2019.7	1980.3	1941.0	1911.0	1909.1
42.5°	7925.1	7792.0	5284.7	2687.3	2104.1	2059.1	1967.2	1918.5	1858.4	1775.9	1759.1
45°	9455.4	8988.4	5534.1	2439.8	1933.5	2006.6	1909.1	1841.6	1747.8	1657.8	1648.4
47.5°	11218.2	10273.0	5656.0	2182.9	1774.1	1929.7	1837.8	1730.9	1612.8	1567.8	1562.1
50°	13371.1	11797.7	5714.1	1933.5	1635.3	1828.4	1734.7	1609.0	1509.6	1500.3	1494.6
52.5°	15822.1	13631.7	5732.9	1729.1	1520.9	1697.2	1650.3	1528.4	1449.6	1457.1	1457.1
55°	18387.6	15525.8	5477.8	1580.9	1415.9	1562.1	1594.0	1496.5	1430.9	1460.9	1472.1
57.5°	20743.0	17204.2	4675.2	1466.5	1316.5	1459.0	1573.4	1526.5	1481.5	1603.4	1610.9
60°	22550.8	18196.3	3491.9	1363.4	1243.3	1423.4	1627.8	1640.9	1652.2	1942.8	1982.2
62.5°	22929.6	17866.2	2400.4	1282.7	1209.6	1453.4	1727.2	1729.1	1715.9	1918.5	1942.8
65°	21191.2	15779.0	1745.9	1237.7	1181.5	1507.8	1811.6	1772.2	1685.9	1839.7	1794.7
67.5°	16829.2	11887.7	1453.4	1204.0	1140.2	1504.0	1901.6	1811.6	1669.0	1802.2	1729.1
70°	10923.8	7188.1	1294.0	1175.8	1091.4	1432.7	1954.1	1807.8	1620.3	1676.5	1590.3
72.5°	5329.7	3214.3	1187.1	1134.6	1040.8	1333.4	1952.2	1774.1	1569.6	1565.9	1519.0
75°	2085.4	1472.1	1089.6	1072.7	954.5	1220.8	1899.7	1725.3	1509.6	1449.6	1432.7
77.5°	1220.8	1050.2	965.8	980.8	851.4	1108.3	1822.8	1640.9	1427.1	1355.9	1337.1
80°	888.9	785.8	823.3	847.6	727.6	995.8	1719.7	1537.8	1335.2	1370.9	1344.6
82.5°	570.1	506.3	667.6	692.0	605.7	881.4	1607.2	1429.0	1205.8	1095.2	1068.9
85°	290.7	320.7	497.0	527.0	467.0	723.9	1470.3	1284.6	1059.6	911.4	926.4
87.5°	163.2	219.4	316.9	354.4	330.1	557.0	1192.7	1059.6	864.5	703.2	618.9
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)