

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: P383269

Luminaire Tested: **GLEON-SA5D-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383269  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5D-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35873.9 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

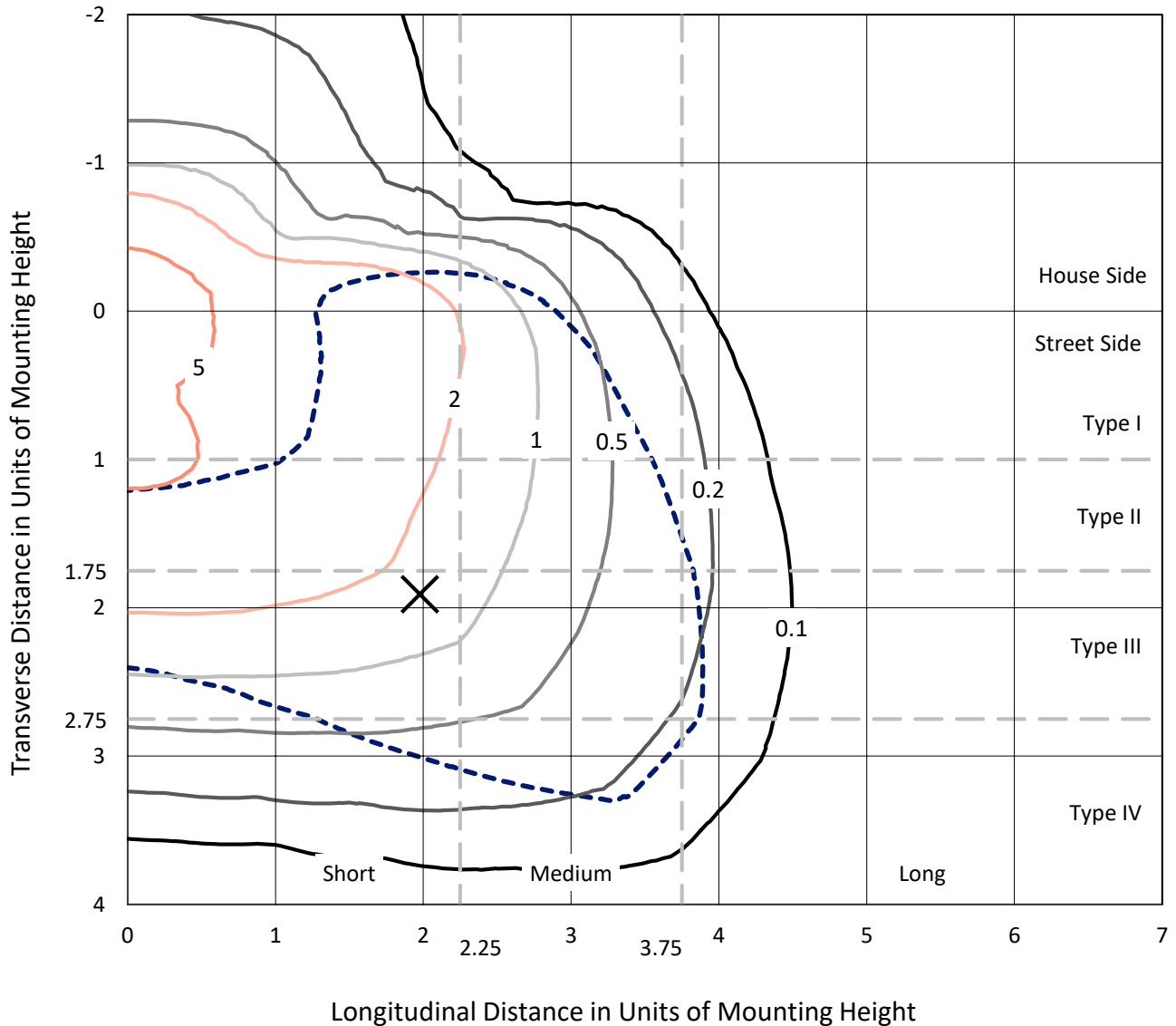
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

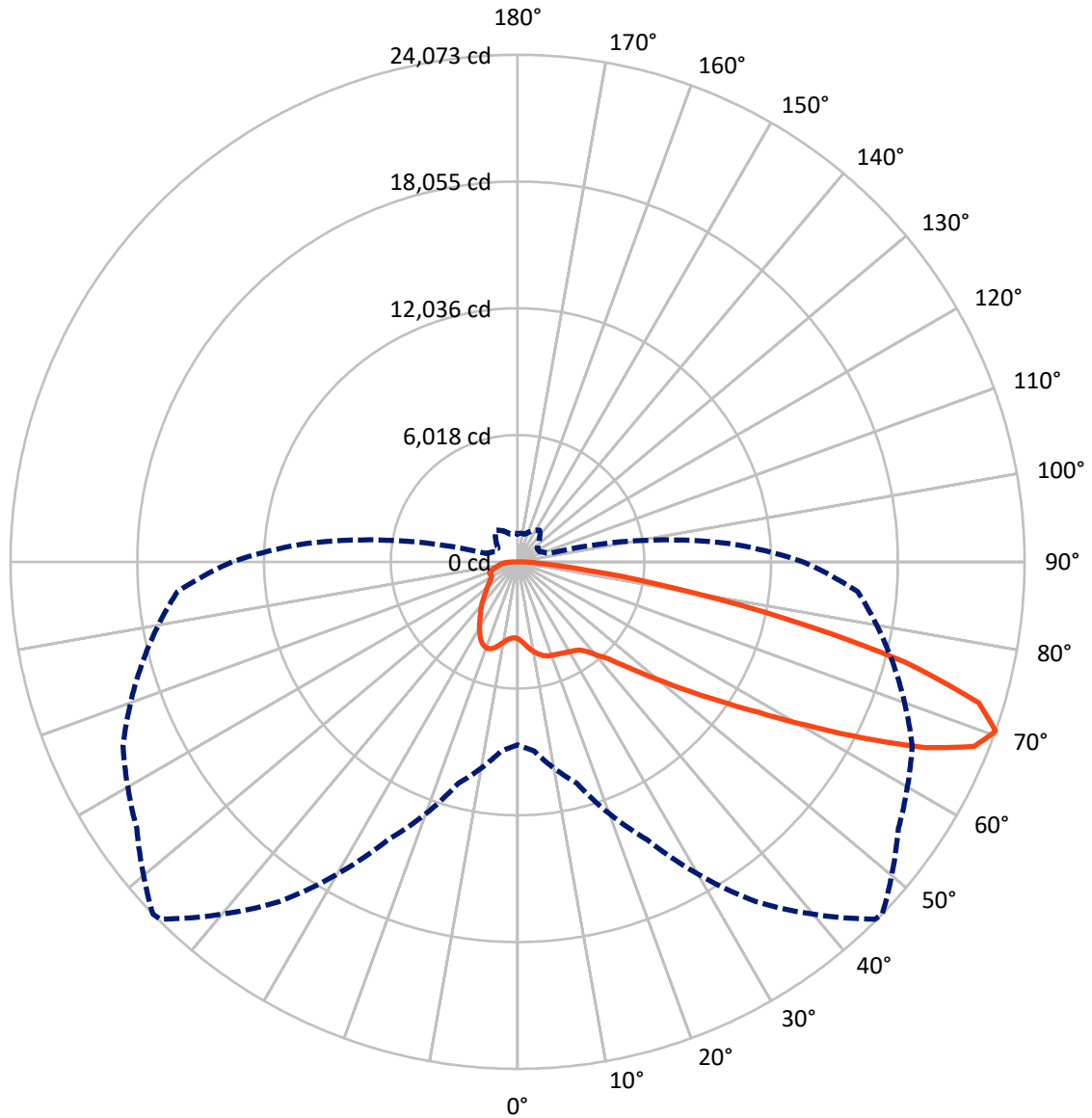
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8222.2	0.0	8222.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	27651.7	0.0	27651.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	35873.9	0.0	35873.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.6	1.0
10°-20°	1241.3	3.5
20°-30°	2069.8	5.8
30°-40°	2937.2	8.2
40°-50°	4320.4	12.0
50°-60°	7316.6	20.4
60°-70°	10385.8	29.0
70°-80°	6309.5	17.6
80°-90°	920.8	2.6
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°	35873.9	100.0
0°-180°	35873.9	100.0

**Coefficient of Utilization**



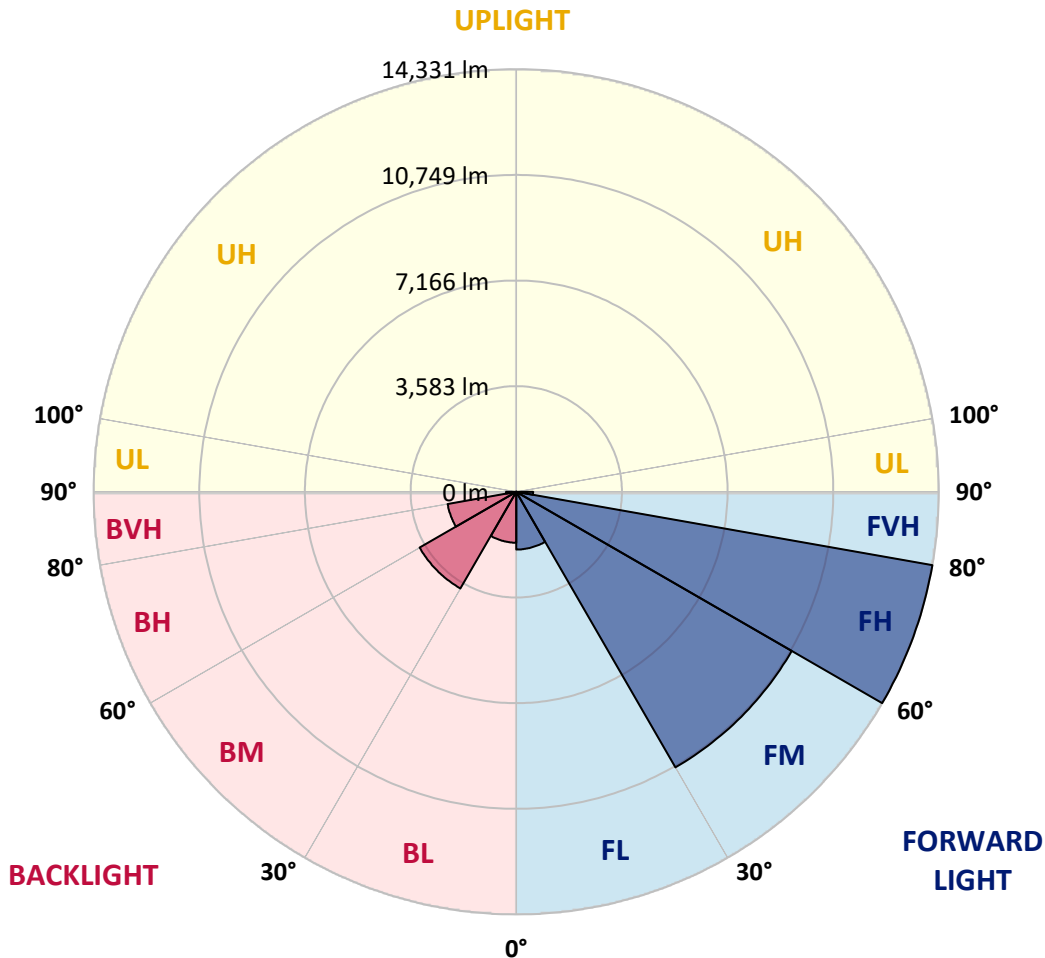
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1957.4	5.5			
FM (30°-60°)	10789.3	30.1			
FH (60°-80°)	14331.4	39.9			G5
FVH (80°-90°)	573.6	1.6			G4/750
BL (0°-30°)	1726.3	4.8	B3/2500		
BM (30°-60°)	3784.9	10.6	B3/5000		
BH (60°-80°)	2363.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	347.2	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°	46°	55°	65°	75°	85°
0°	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8
2.5°	3837.8	3840.2	3845.1	3832.9	3798.5	3788.7	3785.0	3749.4	3726.1	3691.7	3662.2
5°	4144.7	4147.2	4139.8	4105.4	4029.3	3972.9	3967.9	3886.9	3813.2	3734.7	3675.7
7.5°	4465.1	4468.8	4445.4	4380.4	4273.6	4175.4	4169.2	4058.8	3947.1	3827.9	3739.6
10°	4748.8	4734.0	4695.9	4605.1	4478.6	4358.3	4353.4	4238.0	4109.1	3965.4	3847.6
12.5°	4937.8	4925.6	4876.4	4765.9	4627.2	4516.7	4506.8	4400.1	4274.9	4117.7	3976.5
15°	5042.2	5050.8	4984.4	4859.2	4724.2	4630.9	4622.2	4546.1	4434.4	4276.1	4114.0
17.5°	5055.6	5063.1	4999.2	4875.2	4764.7	4700.9	4697.1	4646.8	4565.8	4413.6	4244.1
20°	4977.1	4982.0	4929.2	4827.3	4754.9	4735.2	4734.0	4711.9	4651.8	4516.7	4352.2
22.5°	4862.9	4866.6	4828.5	4754.9	4730.3	4761.0	4769.6	4761.0	4718.0	4591.6	4436.9
25°	4834.6	4832.2	4792.9	4718.0	4738.9	4804.0	4815.0	4818.7	4789.3	4678.8	4544.9
27.5°	4970.9	4962.4	4887.5	4767.1	4780.6	4859.2	4874.0	4909.5	4891.1	4794.1	4667.7
30°	5365.1	5350.3	5196.8	4953.8	4887.5	4928.0	4946.4	5002.9	5006.5	4925.6	4831.0
32.5°	6030.5	6012.0	5737.0	5302.4	5067.9	4997.9	5015.2	5099.9	5145.3	5082.6	4980.8
35°	6871.4	6850.5	6489.6	5895.4	5369.9	5131.8	5144.0	5211.5	5302.4	5214.1	5079.0
37.5°	7748.0	7697.7	7350.2	6592.7	5849.9	5417.8	5417.8	5426.5	5469.4	5285.2	5194.4
40°	8619.6	8569.3	8255.0	7412.8	6471.2	5868.4	5840.2	5649.8	5615.5	5457.1	5426.5
42.5°	9430.0	9415.2	9229.8	8339.8	7200.4	6311.6	6272.3	5949.4	5956.8	5858.6	5859.8
45°	10291.7	10291.7	10140.7	9275.2	8050.0	7023.7	6984.4	6509.3	6582.9	6537.5	6646.8
47.5°	10995.2	11017.3	10996.5	10250.0	9038.2	7928.5	7857.2	7285.2	7491.4	7647.4	7965.3
50°	11713.5	11747.8	11751.5	11319.3	10232.9	9003.9	8922.9	8315.2	8775.6	9222.4	9847.3
52.5°	12755.8	12833.1	12524.9	12386.2	11696.2	10280.7	10200.9	9639.8	10408.4	11035.8	12112.4
55°	13722.0	13654.4	13434.7	13520.6	13262.8	11734.3	11674.2	11181.8	12227.9	13043.1	14441.4
57.5°	14244.9	14240.0	14461.1	14829.3	14952.1	13526.7	13476.4	12997.6	14279.3	14891.9	16627.9
60°	14858.8	14867.4	15415.0	16251.0	16756.8	15758.7	15736.6	15373.2	16271.9	16618.1	18343.0
62.5°	14944.7	15099.5	16042.3	17481.1	18446.1	18366.3	18415.4	17513.1	18054.5	17995.5	19623.5
65°	13956.4	14160.3	15866.8	17853.1	20125.6	21218.2	21263.7	19665.2	19460.2	19172.9	20081.4
67.5°	11930.7	12232.7	14086.6	17044.1	20679.3	23326.2	23390.0	21333.7	20626.5	19571.9	18979.0
70°	8682.3	9017.4	10883.6	14556.7	19692.3	24000.2	24072.7	22071.5	20670.7	18436.3	16201.8
72.5°	5244.7	5507.4	7045.8	10716.5	16620.6	22772.5	22901.4	21136.0	18872.1	15616.3	11963.9
75°	2303.2	2475.0	3406.9	6175.3	11898.8	18841.5	19002.3	18091.3	15333.9	11348.9	7071.6
77.5°	980.9	1030.0	1397.1	2682.5	6726.5	12874.8	13095.8	13218.6	10403.5	6175.3	2988.2
80°	611.4	631.0	790.6	1214.2	3147.8	7231.1	7469.3	7777.5	5166.2	2270.0	1043.5
82.5°	372.0	394.0	525.5	734.2	1639.0	3277.9	3392.1	3609.5	2004.8	980.9	540.2
85°	223.5	239.4	321.7	464.1	933.0	1289.1	1287.9	1424.1	944.1	631.0	284.9
87.5°	106.8	119.1	171.9	240.6	470.2	483.8	453.0	513.2	573.4	413.7	143.6
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°	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8
2.5°	3652.4	3647.5	3631.5	3619.2	3616.8	3609.5	3603.3	3607.0	3611.9	3613.1	3613.1
5°	3651.2	3637.7	3616.8	3608.2	3619.2	3634.0	3652.4	3676.9	3691.7	3702.7	3710.1
7.5°	3710.1	3684.3	3661.0	3656.0	3678.2	3717.4	3759.2	3810.8	3846.4	3871.0	3875.8
10°	3808.4	3776.4	3753.0	3758.0	3797.3	3853.7	3912.7	3978.9	4032.9	4066.1	4068.6
12.5°	3921.3	3890.6	3868.4	3889.3	3954.4	4023.2	4084.6	4142.2	4191.3	4224.5	4224.5
15°	4051.4	4029.3	4003.5	4051.4	4139.8	4201.2	4227.0	4255.2	4282.2	4306.7	4301.9
17.5°	4176.6	4155.7	4142.2	4198.7	4290.8	4319.0	4301.9	4280.9	4280.9	4294.4	4296.9
20°	4284.7	4266.2	4274.9	4330.1	4378.0	4348.5	4284.7	4218.3	4191.3	4198.7	4206.1
22.5°	4379.2	4370.6	4396.3	4422.1	4387.8	4284.7	4166.8	4077.2	4044.0	4041.6	4044.0
25°	4489.7	4488.5	4520.3	4473.8	4321.4	4131.2	3972.9	3885.7	3867.2	3881.9	3906.5
27.5°	4627.2	4640.7	4656.6	4486.0	4186.5	3899.2	3738.3	3678.2	3696.6	3732.2	3755.5
30°	4802.8	4839.6	4805.2	4455.3	3992.4	3634.0	3480.5	3463.3	3513.7	3564.0	3588.5
32.5°	4973.3	5031.1	4947.6	4375.5	3742.0	3352.8	3233.8	3228.8	3290.2	3339.3	3373.7
35°	5110.9	5225.1	5054.4	4217.1	3452.3	3093.8	3006.7	2973.5	2995.6	3053.2	3092.6
37.5°	5290.2	5480.4	5128.1	3975.3	3138.0	2880.2	2778.2	2702.1	2682.5	2705.9	2725.5
40°	5618.0	5869.6	5162.5	3637.7	2831.1	2666.6	2563.4	2451.7	2374.3	2317.9	2319.1
42.5°	6153.2	6376.6	5140.4	3227.6	2547.5	2457.9	2341.3	2212.3	2087.0	1959.4	1949.5
45°	7022.4	7130.4	5074.0	2793.0	2298.2	2239.3	2130.1	2001.2	1834.2	1689.3	1675.8
47.5°	8413.4	8174.0	4970.9	2413.6	2078.5	2054.0	1953.3	1804.7	1627.9	1511.2	1501.5
50°	10310.2	9680.4	4920.6	2111.6	1884.5	1891.9	1809.6	1652.5	1485.5	1399.6	1389.8
52.5°	12579.0	11434.7	5017.6	1878.4	1728.6	1754.4	1693.0	1545.6	1405.7	1338.2	1328.4
55°	14932.4	13251.7	5121.9	1708.9	1581.3	1631.6	1610.7	1489.2	1362.8	1300.2	1291.5
57.5°	16947.1	14608.3	4913.3	1571.4	1450.0	1528.5	1546.9	1453.6	1340.7	1284.1	1274.4
60°	18215.3	15154.7	4365.7	1442.5	1345.5	1446.2	1510.0	1443.8	1349.3	1344.3	1337.0
62.5°	18816.9	15106.8	3544.4	1340.7	1280.5	1410.6	1537.1	1499.0	1447.4	1491.7	1495.3
65°	18546.8	14384.9	2639.5	1273.1	1233.8	1424.1	1618.1	1603.4	1475.7	1519.9	1526.1
67.5°	16769.1	12662.4	1954.5	1214.2	1182.2	1462.2	1765.5	1637.8	1420.4	1452.4	1432.7
70°	13553.7	10038.8	1507.6	1147.9	1129.5	1457.3	1831.7	1616.9	1360.2	1367.7	1314.9
72.5°	9346.4	6845.7	1226.5	1086.5	1053.4	1328.4	1785.0	1565.3	1309.9	1253.5	1183.5
75°	5082.6	3674.5	1042.3	1022.7	919.5	1166.3	1699.1	1528.5	1264.5	1189.7	1150.4
77.5°	1999.9	1524.8	904.8	935.5	804.1	1030.0	1603.4	1458.5	1201.9	1103.7	1084.0
80°	816.4	778.4	750.1	809.0	691.2	901.1	1488.0	1376.3	1127.0	1023.9	984.6
82.5°	462.9	483.8	583.1	638.4	561.1	829.9	1432.7	1309.9	1037.4	917.1	870.4
85°	237.0	283.6	406.3	457.9	412.5	705.9	1319.8	1146.6	832.3	702.2	705.9
87.5°	114.2	158.4	256.5	287.3	267.6	510.8	985.9	831.1	648.3	513.2	497.3
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)