

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: P383207

Luminaire Tested: **GLEON-SA5B-735-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5B-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26612.4 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

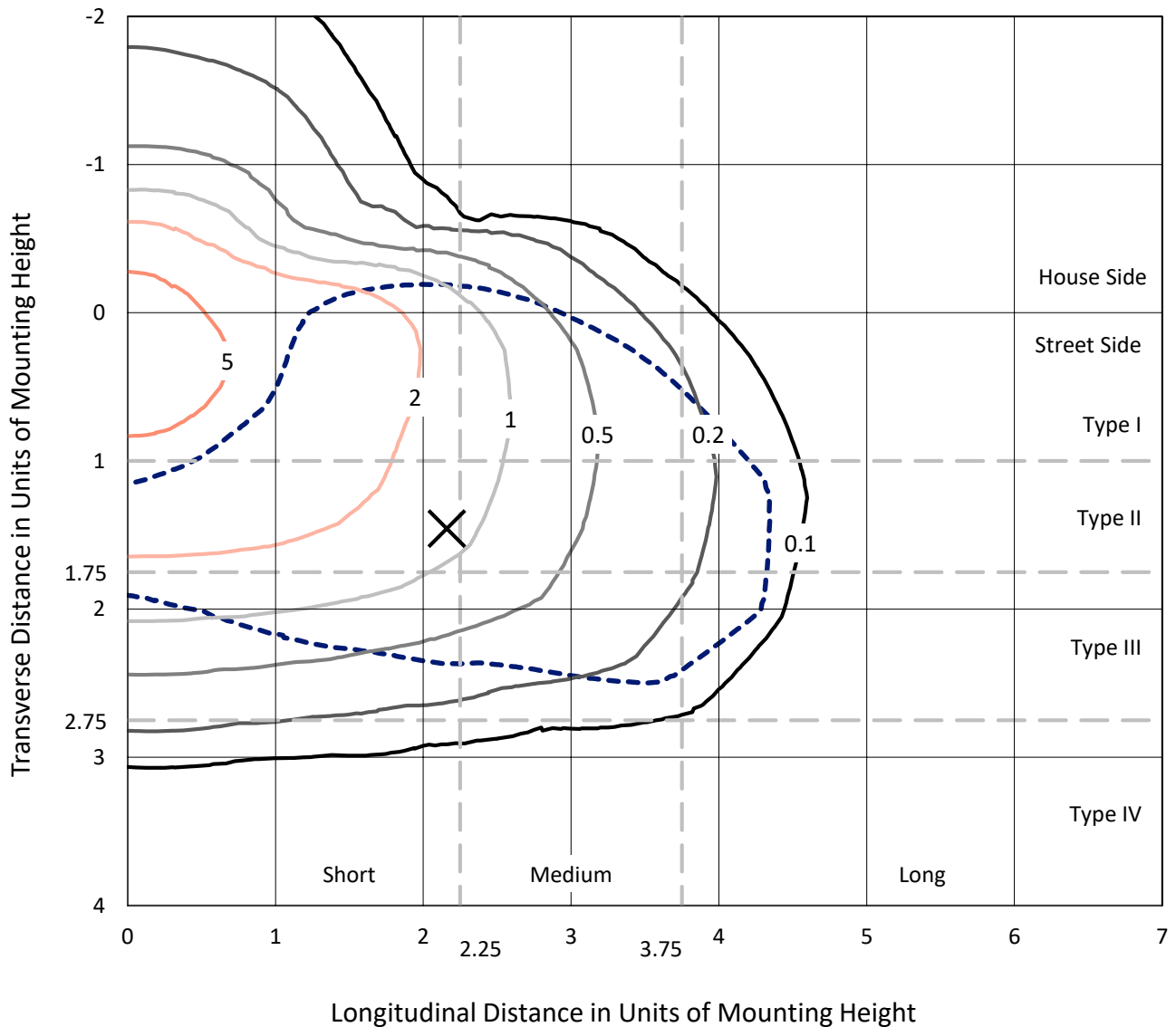
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

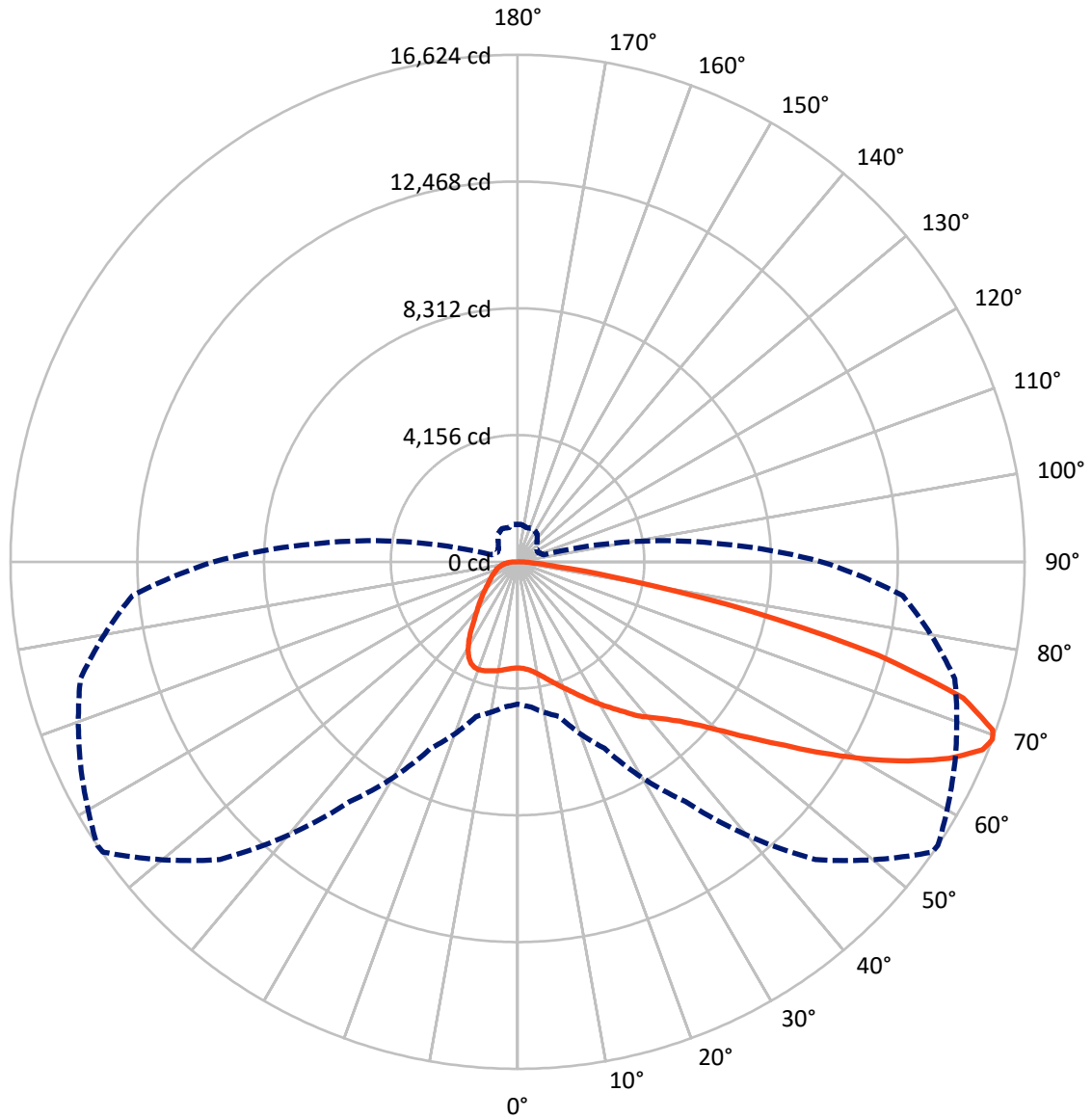
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5926.5	0.0	5926.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	20685.9	0.0	20685.9
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	26612.4	0.0	26612.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.7	1.3
10°-20°	1098.8	4.1
20°-30°	1918.1	7.2
30°-40°	2755.3	10.4
40°-50°	3813.1	14.3
50°-60°	5586.8	21.0
60°-70°	6811.3	25.6
70°-80°	3765.7	14.2
80°-90°	521.6	2.0
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°	26612.4	100.0
0°-180°	26612.4	100.0

**Coefficient of Utilization**



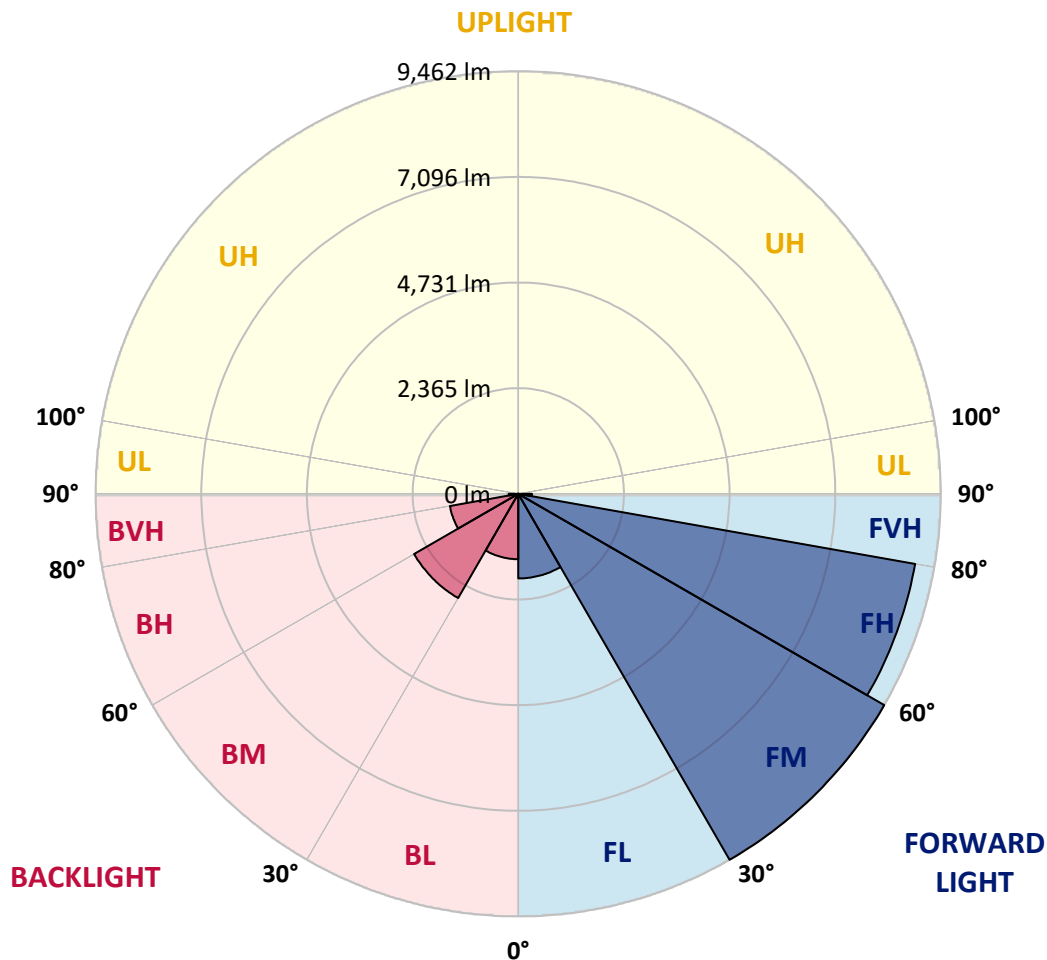
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1894.0	7.1			
FM (30°-60°)	9461.7	35.6			
FH (60°-80°)	9022.9	33.9			G4/12000
FVH (80°-90°)	307.2	1.2			G3/500
BL (0°-30°)	1464.6	5.5	B3/2500		
BM (30°-60°)	2693.5	10.1	B3/5000		
BH (60°-80°)	1554.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	214.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1
2.5°	3501.2	3504.9	3502.1	3509.4	3501.2	3506.7	3502.1	3502.1	3499.4	3491.1	3481.9
5°	3556.2	3563.5	3559.0	3566.2	3556.2	3558.0	3549.8	3549.8	3541.6	3524.1	3505.8
7.5°	3642.4	3650.6	3646.9	3654.3	3640.5	3640.5	3629.5	3628.7	3612.1	3583.7	3562.6
10°	3745.0	3756.0	3752.4	3763.4	3752.4	3756.0	3745.0	3745.0	3723.0	3682.7	3656.1
12.5°	3894.5	3908.2	3898.2	3897.2	3892.7	3900.0	3890.8	3888.9	3868.8	3813.8	3777.1
15°	4094.3	4109.0	4087.9	4086.0	4060.4	4057.6	4057.6	4054.9	4042.1	3976.0	3915.6
17.5°	4324.4	4329.0	4310.7	4281.4	4248.3	4227.3	4224.5	4231.8	4231.8	4154.9	4058.6
20°	4550.0	4558.2	4543.5	4510.6	4468.4	4437.2	4415.2	4429.9	4428.9	4337.3	4200.7
22.5°	4795.7	4814.9	4792.9	4750.7	4701.2	4666.4	4627.9	4640.7	4641.6	4528.9	4340.0
25°	5113.8	5096.4	5082.6	5023.0	4952.5	4916.7	4880.9	4893.8	4890.1	4735.1	4484.0
27.5°	5395.2	5398.9	5380.6	5317.3	5235.8	5156.9	5155.1	5163.3	5149.6	4949.7	4619.6
30°	5722.5	5724.4	5698.7	5641.8	5553.0	5451.1	5427.3	5441.1	5411.7	5153.2	4762.6
32.5°	6048.0	6057.2	6028.7	5959.9	5888.5	5764.7	5717.0	5726.2	5652.8	5361.3	4910.3
35°	6333.1	6346.0	6336.8	6290.9	6213.0	6106.7	6049.8	6044.3	5953.5	5616.2	5105.5
37.5°	6623.8	6635.7	6625.5	6587.1	6555.9	6443.1	6412.9	6412.9	6255.2	5876.6	5354.0
40°	6922.6	6941.0	6929.0	6875.8	6849.3	6797.9	6725.5	6708.1	6537.5	6189.2	5759.2
42.5°	7200.4	7224.2	7271.9	7240.7	7186.6	7194.0	7048.2	7039.1	6914.3	6651.2	6268.0
45°	7594.6	7629.5	7710.1	7686.3	7675.3	7635.0	7461.7	7453.4	7405.7	7272.8	6899.7
47.5°	8024.5	8072.2	8218.0	8222.6	8340.9	8264.8	8029.2	8000.7	8011.8	8017.3	7670.7
50°	8420.6	8472.9	8712.1	8824.9	9103.6	9120.1	8743.3	8717.6	8760.7	8887.2	8569.1
52.5°	8736.9	8802.9	9101.8	9450.2	9927.8	10063.5	9622.5	9603.2	9635.4	9853.5	9585.0
55°	8968.8	9040.4	9365.8	10000.3	10763.0	11002.2	10634.6	10616.3	10636.5	10914.3	10689.6
57.5°	9023.0	9040.4	9512.5	10370.6	11468.0	12042.8	11873.2	11836.5	11737.5	11979.5	11909.0
60°	8769.0	8838.7	9391.5	10500.8	12013.5	13068.7	13167.7	13121.9	12844.1	13042.1	12985.3
62.5°	8253.8	8378.4	8939.5	10302.7	12227.1	13906.6	14437.4	14382.4	13903.9	14032.2	13759.1
65°	7412.1	7465.3	8054.8	9619.7	11955.8	14442.9	15569.7	15542.1	14939.9	14739.0	13902.0
67.5°	5906.9	6006.7	6507.3	8192.3	10845.5	14379.6	16445.2	16442.5	15616.5	15001.3	13395.1
69°	4666.4	4770.0	5246.8	6748.4	9596.8	13801.2	16591.9	16623.9	15807.2	14841.7	12670.8
70°	3720.3	3840.4	4167.7	5684.0	8488.4	13038.4	16469.9	16527.7	15770.4	14578.6	12002.4
72.5°	1583.3	1680.4	1913.3	2930.0	5173.3	9736.2	15059.0	15277.2	14920.6	13342.8	9919.6
75°	691.2	721.5	826.9	1194.5	2296.5	5299.0	11797.1	12200.5	12757.9	11278.2	7389.2
77.5°	506.0	518.9	576.6	701.4	1030.5	2001.3	7586.3	7821.1	9200.8	8207.0	4532.5
80°	391.4	400.7	445.6	515.2	672.9	809.5	3460.0	3661.6	5173.3	4215.3	1887.7
82.5°	311.7	318.1	349.3	379.5	464.8	490.5	1148.7	1274.4	1909.7	1164.3	499.7
85°	289.7	297.1	308.1	276.9	297.9	287.8	496.9	519.8	576.6	457.5	209.0
87.5°	131.1	154.9	305.3	215.5	158.6	126.5	203.5	212.7	239.3	240.2	92.6
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°	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1	3479.1
2.5°	3487.4	3484.6	3489.3	3478.3	3492.0	3491.1	3486.5	3488.4	3497.5	3496.6	3497.5
5°	3508.5	3506.7	3512.2	3503.9	3520.4	3525.9	3526.8	3535.1	3545.2	3547.9	3547.9
7.5°	3561.7	3561.7	3564.5	3553.5	3564.5	3563.5	3559.0	3567.2	3577.2	3578.2	3577.2
10°	3653.3	3654.3	3649.7	3621.3	3612.1	3587.4	3564.5	3565.3	3578.2	3588.2	3591.0
12.5°	3768.9	3765.2	3745.0	3692.7	3654.3	3603.9	3580.0	3579.1	3592.0	3600.2	3602.9
15°	3900.9	3890.8	3838.5	3753.3	3685.5	3635.9	3597.5	3588.2	3581.0	3571.7	3572.7
17.5°	4025.6	4002.7	3915.6	3797.3	3725.8	3659.8	3585.5	3525.9	3484.6	3460.9	3453.5
20°	4152.1	4107.2	3981.5	3838.5	3747.8	3627.7	3484.6	3363.6	3288.5	3253.6	3247.2
22.5°	4267.6	4195.2	4043.0	3881.7	3730.4	3519.5	3294.9	3118.9	3014.4	2967.6	2971.3
25°	4380.4	4279.5	4107.2	3911.9	3642.4	3328.8	3030.9	2814.5	2693.5	2641.2	2639.4
27.5°	4479.3	4364.8	4176.9	3887.2	3478.3	3057.4	2718.3	2507.4	2406.6	2361.7	2354.3
30°	4593.1	4472.1	4269.5	3792.7	3238.1	2744.0	2413.0	2264.4	2193.0	2148.1	2139.8
32.5°	4731.5	4617.8	4345.6	3621.3	2930.9	2416.6	2174.6	2071.0	2005.9	1955.5	1946.3
35°	4933.2	4810.3	4364.8	3375.6	2593.6	2158.1	1999.5	1893.2	1805.2	1740.0	1733.6
37.5°	5186.2	5051.4	4320.8	3057.4	2266.3	1990.3	1853.7	1722.6	1608.0	1516.4	1501.7
40°	5551.1	5347.5	4198.9	2690.8	2025.2	1861.0	1711.6	1562.2	1420.1	1312.8	1291.8
42.5°	5989.3	5695.0	4011.8	2325.9	1848.2	1730.0	1570.4	1385.2	1249.6	1173.5	1162.5
45°	6546.7	6056.3	3752.4	2006.8	1674.1	1598.9	1418.3	1247.7	1163.4	1107.4	1098.3
47.5°	7183.0	6461.5	3480.1	1747.4	1526.4	1476.0	1296.3	1186.3	1119.3	1075.4	1067.1
50°	7965.0	6919.0	3191.3	1534.7	1377.9	1328.4	1238.6	1152.4	1099.2	1065.3	1057.0
52.5°	8846.9	7435.1	2983.2	1367.0	1255.1	1219.3	1208.3	1134.1	1090.9	1065.3	1057.0
55°	9796.7	7960.4	2758.6	1225.7	1148.7	1158.8	1188.2	1135.9	1106.6	1075.4	1063.5
57.5°	10747.4	8503.2	2508.3	1106.6	1064.4	1113.9	1174.4	1139.6	1114.8	1084.5	1073.5
60°	11499.1	8846.9	2120.5	1006.6	997.5	1064.4	1141.4	1112.1	1079.9	1080.9	1079.0
62.5°	11850.3	8828.6	1692.3	917.7	930.5	997.5	1088.2	1069.0	1042.4	1078.2	1080.9
65°	11653.2	8388.5	1317.4	837.0	859.0	927.8	1033.2	1047.9	1057.0	1125.8	1135.0
67.5°	10826.3	7532.2	1020.4	766.4	794.0	880.1	1038.7	1141.4	1153.3	1225.7	1224.8
69°	9970.9	6729.1	886.6	729.8	761.8	892.0	1110.2	1201.0	1156.1	1233.1	1222.1
70°	9254.0	6093.8	815.0	705.0	747.2	913.1	1157.9	1200.0	1142.3	1208.3	1190.0
72.5°	7127.1	4384.0	691.2	659.2	697.6	873.7	1171.6	1173.5	1110.2	1123.1	1091.9
75°	4888.3	2770.5	603.3	596.8	622.5	787.5	1127.6	1121.2	1026.8	1008.5	982.8
77.5°	2695.3	1407.3	512.4	537.2	554.6	697.6	1025.0	1015.8	937.9	899.3	890.2
80°	1039.6	616.0	432.7	477.6	488.7	604.2	898.5	890.2	825.1	775.6	761.8
82.5°	392.4	322.7	357.5	413.5	409.8	498.8	760.9	756.3	693.1	620.7	598.6
85°	181.6	193.5	283.3	341.0	314.5	369.5	608.8	617.0	540.0	453.8	453.8
87.5°	77.0	108.2	200.7	257.6	211.7	249.4	446.5	426.3	391.4	271.4	254.9
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)