

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: P648572

Luminaire Tested: **GALN-SA7B-835-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 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: 31055.3 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

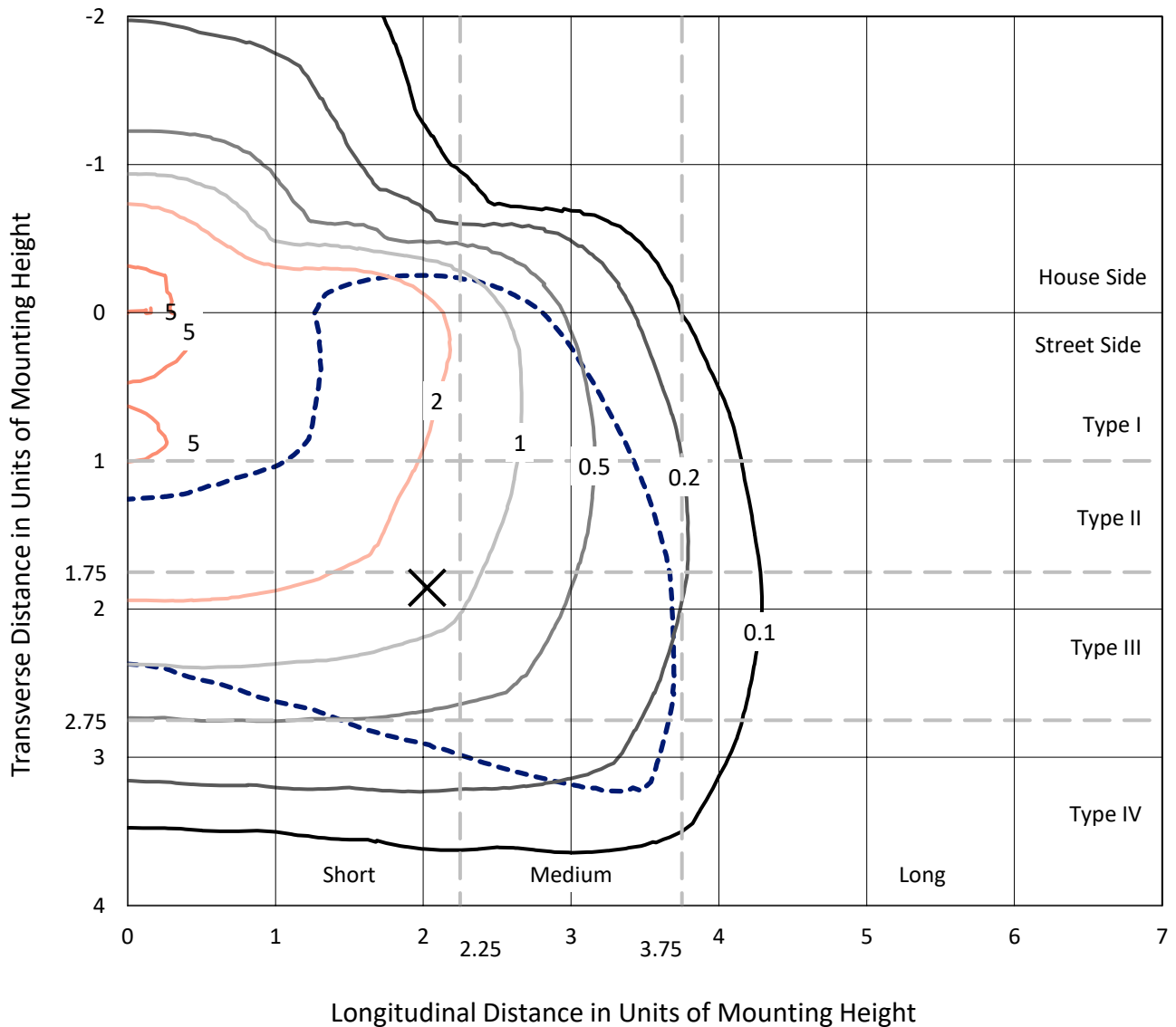
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

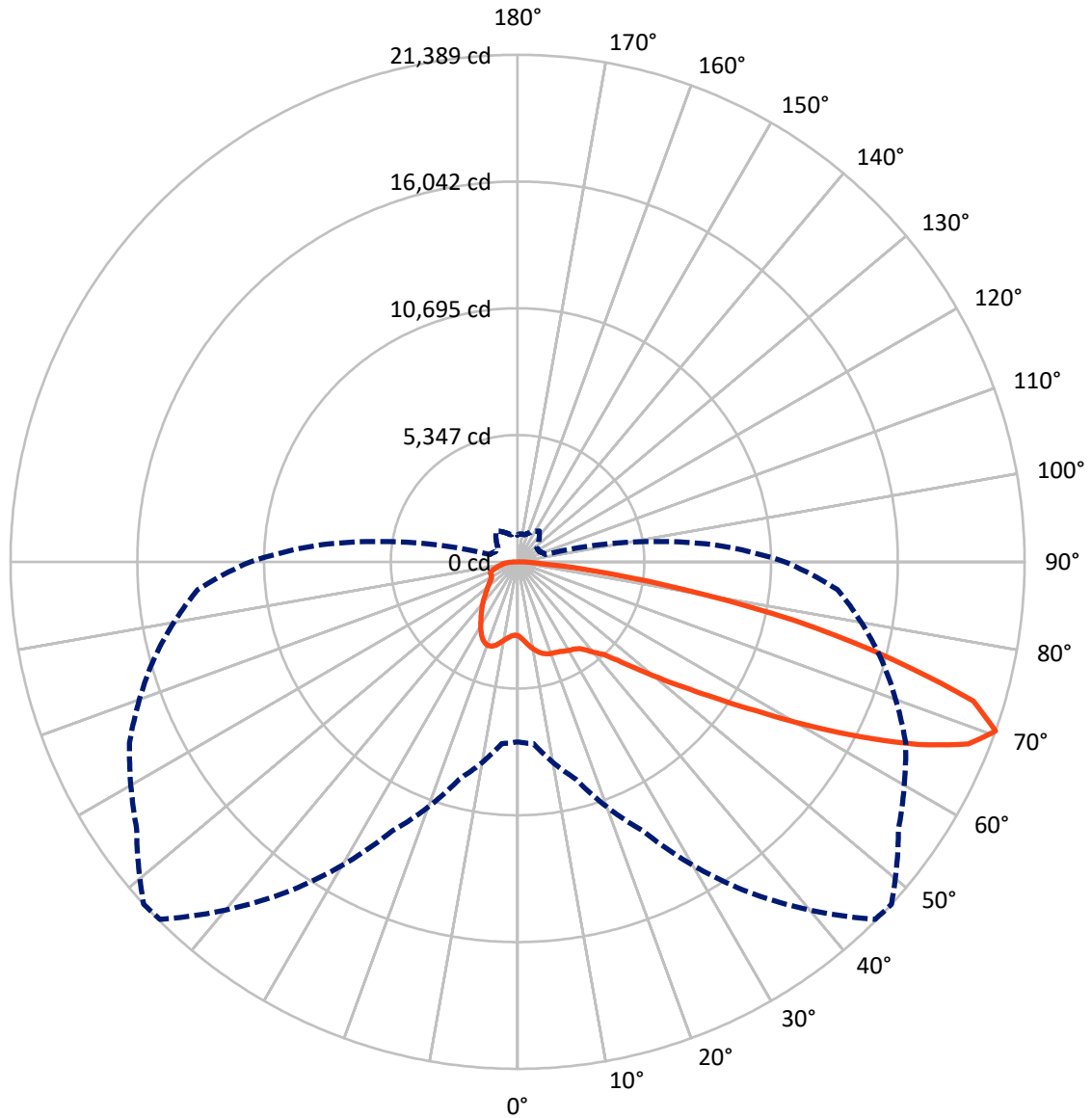
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7031.5	0.0	7031.5
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	24023.8	0.0	24023.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	31055.3	0.0	31055.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.4	1.0
10°-20°	1074.3	3.5
20°-30°	1786.6	5.8
30°-40°	2532.2	8.2
40°-50°	3738.1	12.0
50°-60°	6474.5	20.8
60°-70°	9145.5	29.4
70°-80°	5257.3	16.9
80°-90°	725.4	2.3
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°	31055.3	100.0
0°-180°	31055.3	100.0

**Coefficient of Utilization**

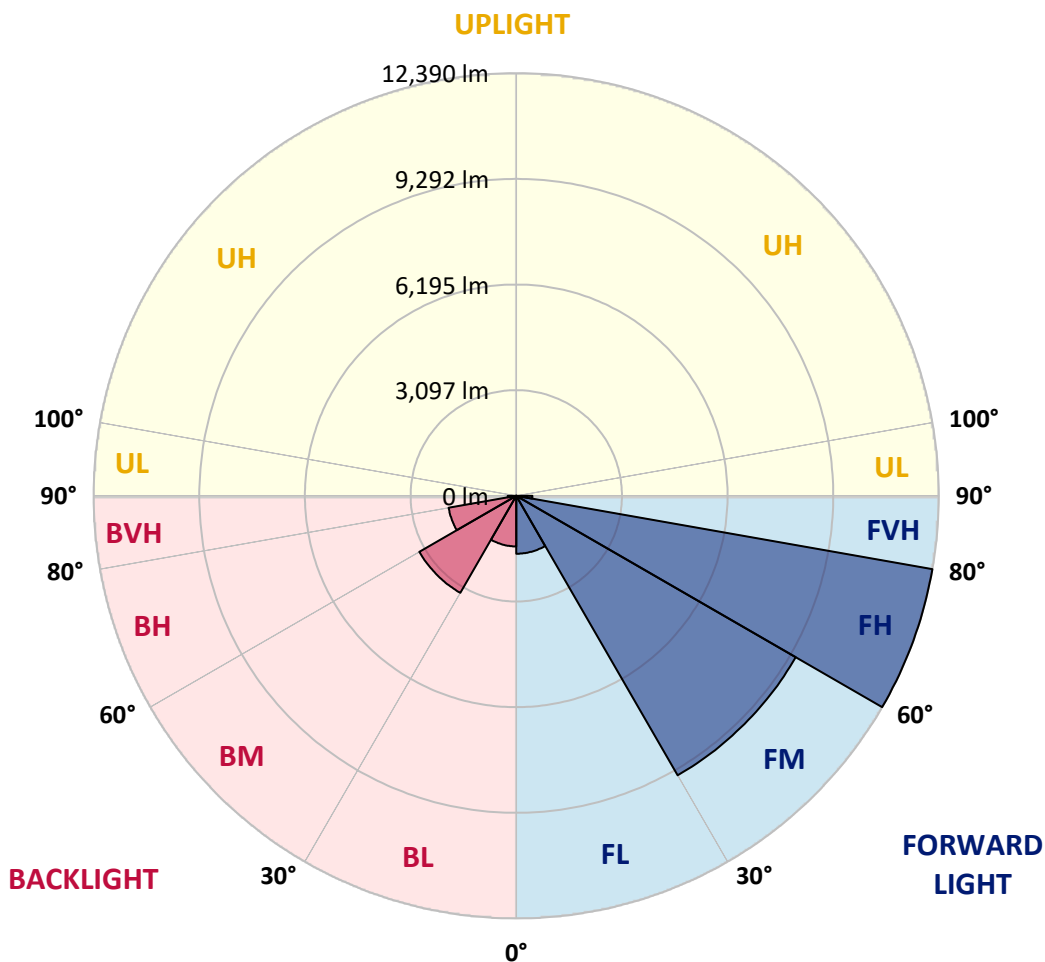


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.2	5.5			
FM (30°-60°)	9462.0	30.5			
FH (60°-80°)	12389.8	39.9			G5
FVH (80°-90°)	473.8	1.5			G3/500
BL (0°-30°)	1484.0	4.8	B3/2500		
BM (30°-60°)	3282.9	10.6	B3/5000		
BH (60°-80°)	2013.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	251.5	0.8			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°	47.5°	55°	65°	75°	85°
0°	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6
2.5°	3318.7	3307.0	3305.4	3280.5	3267.1	3242.2	3232.2	3209.0	3180.7	3152.5	3125.9
5°	3579.6	3579.6	3568.0	3533.1	3478.2	3421.7	3396.7	3351.9	3272.2	3207.3	3152.5
7.5°	3847.1	3850.5	3827.1	3775.7	3697.6	3606.2	3582.9	3516.5	3403.4	3308.7	3227.3
10°	4078.1	4078.1	4046.5	3976.8	3878.7	3779.0	3755.7	3681.0	3554.7	3436.7	3330.3
12.5°	4254.3	4254.3	4212.7	4121.3	4015.0	3925.3	3898.6	3827.1	3709.2	3577.9	3443.3
15°	4368.9	4360.6	4314.1	4211.1	4108.0	4029.9	4011.6	3951.8	3843.8	3710.9	3559.6
17.5°	4373.9	4370.6	4325.8	4239.3	4149.6	4096.4	4084.8	4044.9	3960.1	3833.8	3674.3
20°	4277.5	4284.2	4254.3	4192.8	4149.6	4126.3	4121.3	4108.0	4048.2	3930.2	3770.7
22.5°	4174.5	4186.2	4157.9	4124.7	4121.3	4144.6	4147.9	4151.2	4113.0	3998.3	3852.1
25°	4149.6	4157.9	4129.6	4099.7	4118.0	4179.5	4192.8	4206.0	4176.1	4079.7	3948.5
27.5°	4275.9	4269.2	4214.4	4149.6	4161.2	4244.3	4262.6	4277.5	4262.6	4179.5	4068.2
30°	4633.2	4611.6	4501.9	4312.5	4252.6	4310.8	4329.1	4370.6	4370.6	4309.1	4197.7
32.5°	5231.5	5189.9	4988.8	4616.6	4408.8	4373.9	4392.2	4460.4	4495.2	4447.0	4325.8
35°	5957.6	5914.5	5627.0	5126.7	4694.6	4500.2	4495.2	4571.7	4664.7	4556.7	4398.8
37.5°	6687.2	6642.3	6296.7	5734.9	5111.7	4766.1	4736.2	4762.8	4802.7	4604.9	4500.2
40°	7416.7	7363.6	7061.1	6414.6	5621.9	5118.4	5040.3	4920.7	4904.0	4762.8	4696.3
42.5°	8139.6	8091.4	7938.5	7177.4	6233.5	5462.4	5342.8	5136.7	5199.8	5115.1	5056.9
45°	8869.1	8872.5	8709.6	8033.3	6971.4	6097.2	5936.0	5613.6	5763.2	5731.6	5764.8
47.5°	9515.6	9507.3	9449.2	8864.2	7887.0	6914.8	6707.1	6333.2	6589.1	6705.5	6959.7
50°	10142.1	10137.1	10140.5	9806.4	8950.6	7887.0	7657.7	7265.5	7842.1	8246.0	8701.3
52.5°	11039.5	11067.8	10866.7	10778.6	10243.5	9035.4	8782.8	8377.2	9322.9	9959.3	10848.4
55°	11940.2	11916.9	11759.1	11850.5	11596.2	10394.7	10130.5	9808.1	10971.4	11667.6	13003.8
57.5°	12470.4	12478.7	12639.8	13086.9	13266.4	12089.8	11850.5	11601.2	12824.3	13317.9	14921.6
60°	12947.3	12985.5	13449.1	14293.4	14780.3	14172.1	13959.3	13716.7	14524.3	14720.5	16586.7
62.5°	13096.8	13214.8	14024.2	15287.1	16255.9	16521.8	16257.7	15722.6	16143.0	16066.5	17715.1
65°	12350.7	12511.9	13962.6	15659.4	17573.8	18752.1	18584.2	17590.4	17522.3	17062.0	17899.5
67.5°	10386.4	10547.6	12410.5	14878.3	18118.9	20683.1	20515.2	18953.1	18359.9	17155.0	16503.6
70°	7599.6	7700.9	9482.4	12526.8	17023.8	21331.2	21389.4	19617.8	18060.7	15890.4	13550.5
72.5°	4378.9	4603.3	5851.3	8812.7	13907.8	19692.6	20096.5	18235.2	16169.6	13256.3	9474.1
75°	1882.9	1887.8	2705.4	4860.9	9419.3	15828.9	16219.4	15116.0	12698.0	9166.7	5058.6
77.5°	895.8	912.4	1189.8	2170.3	5184.9	10936.5	11990.1	10678.9	8121.4	4403.8	1911.1
80°	581.6	593.3	727.9	1076.9	2542.6	6341.5	7076.0	6160.4	3582.9	1573.8	824.3
82.5°	352.3	355.6	486.9	658.1	1399.2	2871.7	3385.1	2673.9	1528.9	942.3	485.2
85°	214.4	216.0	295.8	407.2	849.2	992.1	1018.7	1010.4	897.4	616.5	259.3
87.5°	103.0	106.3	152.9	192.8	334.0	307.4	290.8	337.3	423.8	332.4	111.3
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°	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6	3117.6
2.5°	3114.2	3109.3	3097.6	3092.7	3089.3	3091.0	3089.3	3089.3	3091.0	3091.0	3091.0
5°	3129.2	3120.9	3102.6	3102.6	3112.6	3135.8	3157.4	3174.0	3192.4	3190.7	3190.7
7.5°	3194.0	3179.1	3157.4	3164.1	3189.0	3225.6	3263.9	3300.3	3336.9	3340.3	3338.6
10°	3288.8	3273.8	3250.5	3258.8	3298.7	3353.6	3401.7	3454.9	3494.8	3506.4	3503.1
12.5°	3396.7	3366.8	3346.9	3370.2	3433.3	3506.4	3553.0	3592.9	3621.1	3637.7	3631.1
15°	3506.4	3478.2	3454.9	3503.1	3579.6	3647.7	3670.9	3677.6	3682.6	3699.2	3695.9
17.5°	3612.8	3574.6	3566.3	3629.4	3702.6	3732.5	3719.2	3690.9	3669.3	3682.6	3681.0
20°	3707.5	3677.6	3674.3	3737.4	3765.7	3737.4	3681.0	3631.1	3592.9	3596.2	3594.5
22.5°	3797.2	3774.0	3777.3	3803.9	3759.0	3662.6	3569.6	3501.5	3459.9	3468.2	3473.2
25°	3897.0	3873.7	3882.0	3838.8	3690.9	3523.0	3388.4	3330.3	3313.7	3330.3	3341.9
27.5°	4026.6	4011.6	4006.7	3840.5	3569.6	3317.0	3164.1	3142.5	3157.4	3194.0	3212.3
30°	4166.2	4166.2	4139.6	3812.2	3403.4	3069.4	2936.4	2939.8	2991.3	3042.8	3061.1
32.5°	4300.8	4329.1	4246.0	3735.8	3189.0	2828.4	2727.0	2730.4	2775.3	2838.4	2855.1
35°	4412.1	4493.6	4337.4	3596.2	2936.4	2625.7	2549.2	2504.3	2506.1	2554.2	2567.5
37.5°	4565.0	4716.2	4390.5	3388.4	2667.2	2452.8	2366.5	2288.3	2236.8	2216.9	2216.9
40°	4831.0	5053.6	4403.8	3081.0	2413.0	2288.3	2165.4	2072.3	1972.6	1882.9	1866.2
42.5°	5281.3	5562.1	4377.3	2727.0	2183.6	2107.2	1987.6	1872.9	1735.0	1608.7	1598.7
45°	6079.0	6223.5	4305.8	2359.8	1979.3	1932.7	1816.4	1691.7	1545.5	1432.5	1424.2
47.5°	7356.9	7152.5	4211.1	2034.1	1793.1	1779.8	1690.1	1545.5	1399.2	1321.2	1312.9
50°	9223.1	8614.9	4197.7	1798.1	1643.5	1650.2	1577.0	1444.1	1316.1	1251.4	1241.4
52.5°	11469.9	10381.4	4285.8	1631.9	1512.3	1537.2	1500.6	1377.7	1264.6	1209.8	1199.9
55°	13650.2	11970.1	4339.0	1502.3	1389.3	1435.8	1440.8	1337.8	1234.7	1179.9	1173.2
57.5°	15420.1	13166.6	4103.1	1384.3	1282.9	1354.4	1390.9	1314.5	1219.8	1178.3	1171.6
60°	16651.5	13731.6	3431.7	1279.6	1204.8	1289.6	1372.7	1316.1	1256.3	1261.3	1264.6
62.5°	17043.6	13480.8	2574.2	1201.5	1151.6	1268.0	1402.6	1384.3	1322.8	1361.0	1367.7
65°	16393.9	12443.7	1866.2	1140.0	1105.1	1282.9	1492.3	1434.1	1299.5	1327.8	1327.8
67.5°	14218.6	10720.4	1452.5	1083.5	1052.0	1311.2	1582.1	1429.1	1244.7	1277.9	1248.0
70°	11278.8	8292.5	1209.8	1020.3	995.4	1269.6	1590.4	1377.7	1179.9	1186.6	1130.0
72.5°	7484.9	5452.4	1040.3	960.5	909.0	1141.7	1522.2	1311.2	1116.7	1078.5	1022.0
75°	3667.7	2718.7	907.3	885.7	796.0	993.8	1429.1	1248.0	1048.6	988.8	957.2
77.5°	1420.8	1156.6	774.4	791.1	693.0	875.8	1306.2	1158.3	958.9	877.4	852.5
80°	689.7	656.4	634.8	659.8	570.0	746.1	1193.2	1080.1	875.8	786.1	749.5
82.5°	428.8	405.5	486.9	513.5	438.7	681.4	1131.7	1013.8	771.1	651.5	621.5
85°	217.7	232.6	325.7	350.6	314.1	541.8	932.3	761.2	556.7	462.0	465.3
87.5°	83.1	111.3	171.2	184.5	167.9	285.8	513.5	443.7	357.3	242.7	224.3
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)