

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: P531024

Luminaire Tested: **GALN-SA6B-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27621 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

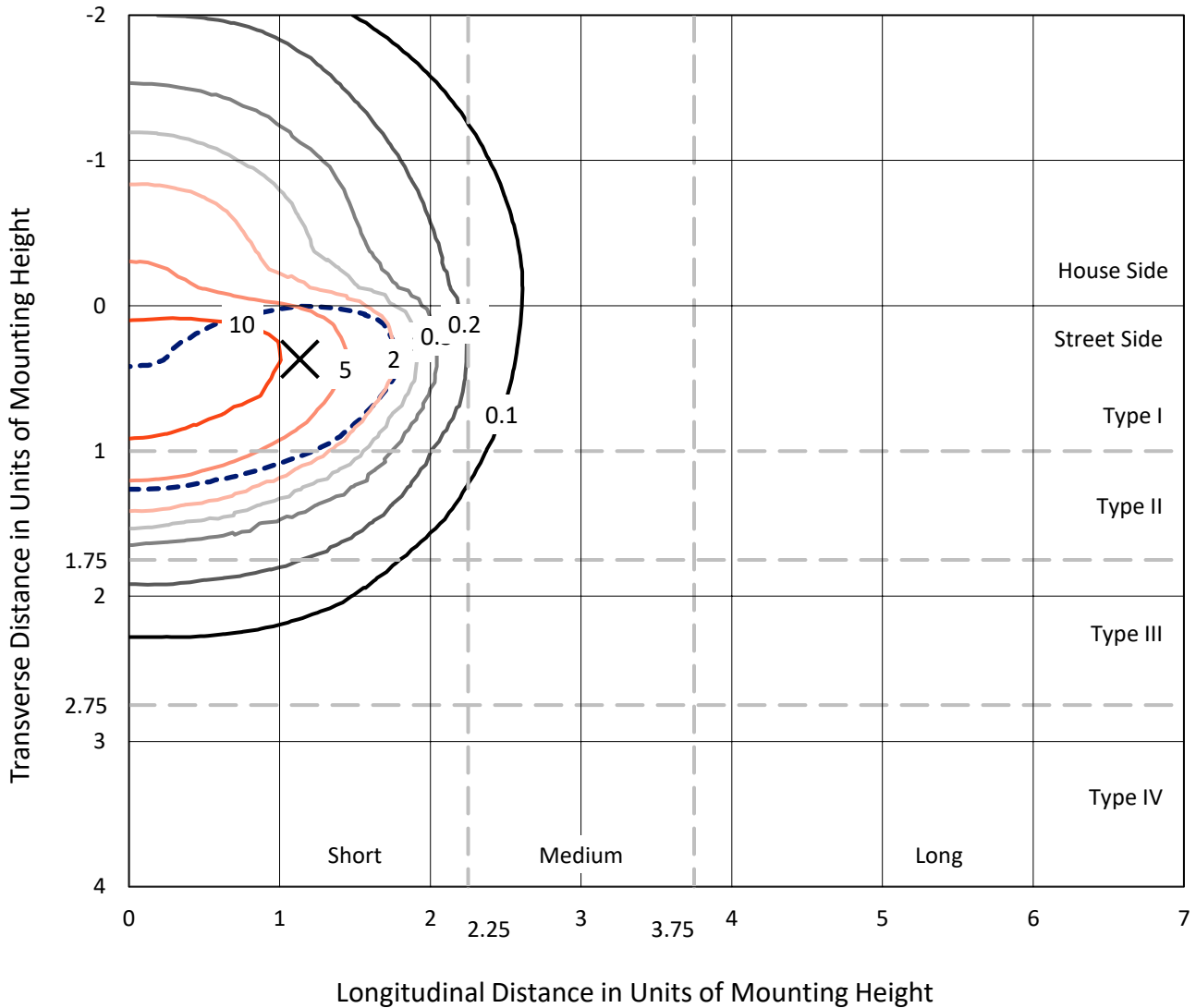
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

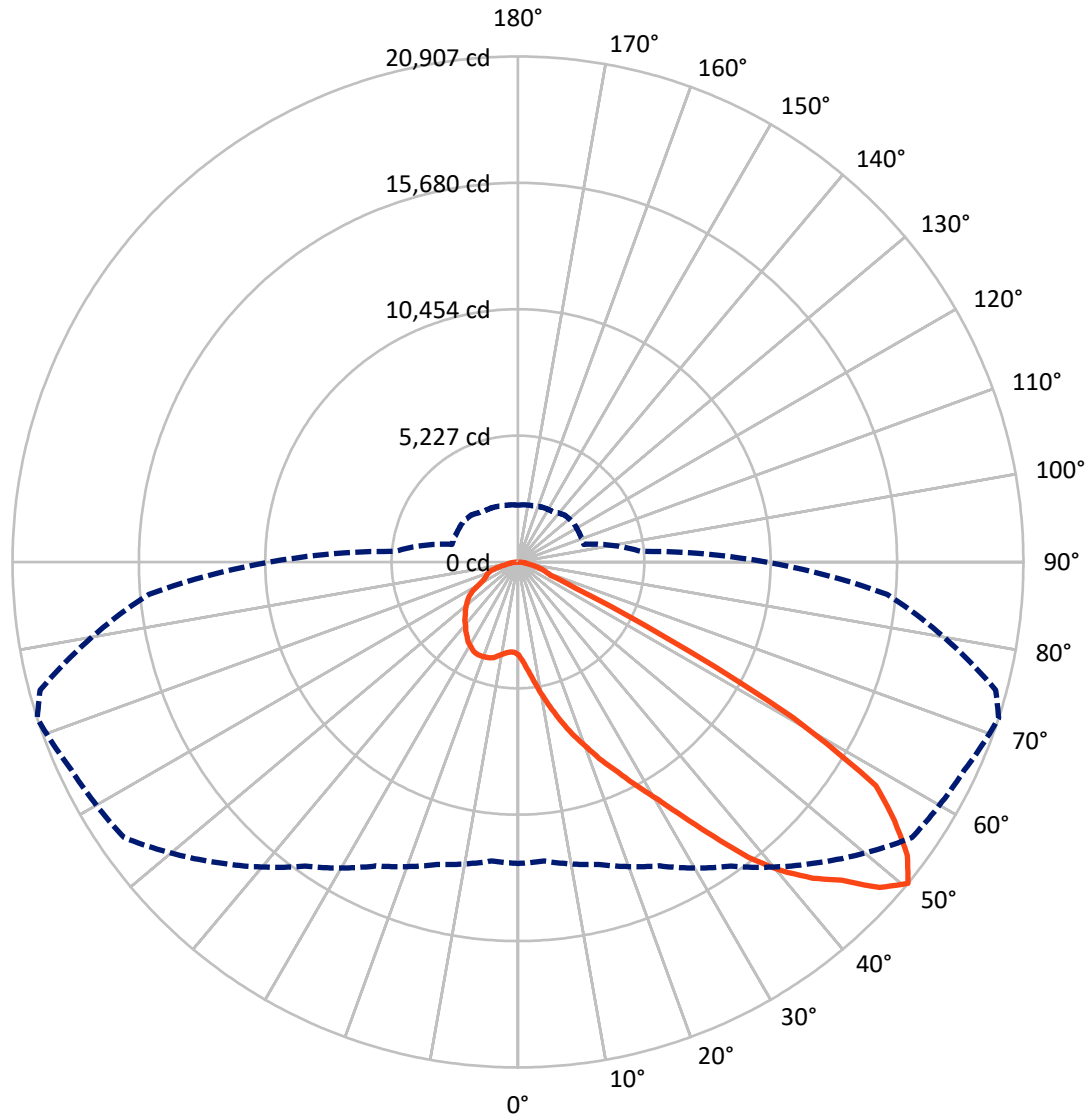
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6328.1	0.0	6328.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	21292.9	0.0	21292.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	27621.0	0.0	27621.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.3	1.6
10°-20°	1690.8	6.1
20°-30°	3278.3	11.9
30°-40°	5431.0	19.7
40°-50°	7599.1	27.5
50°-60°	6410.8	23.2
60°-70°	1954.0	7.1
70°-80°	685.5	2.5
80°-90°	119.2	0.4
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°	27621.0	100.0
0°-180°	27621.0	100.0

**Coefficient of Utilization**

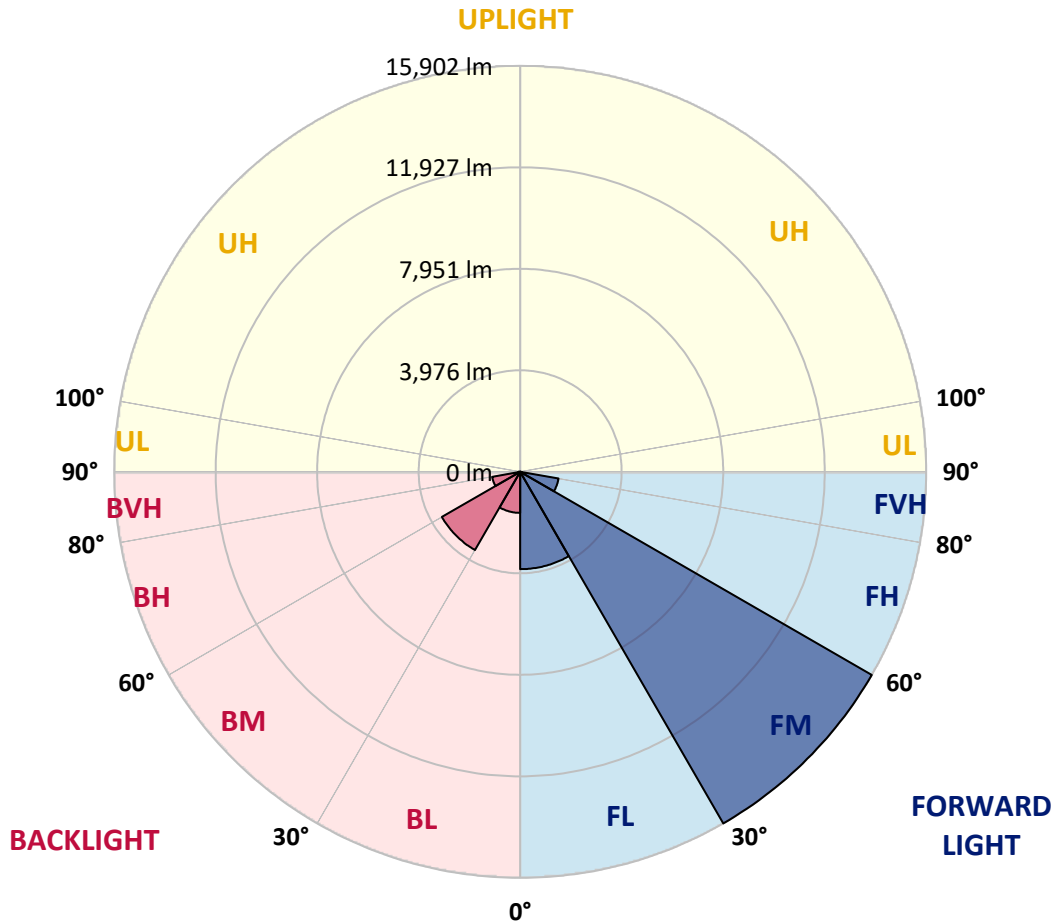


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3812.7	13.8			
FM (30°-60°)	15902.2	57.6			
FH (60°-80°)	1524.6	5.5			G1/1800
FVH (80°-90°)	53.4	0.2			G1/100
BL (0°-30°)	1608.6	5.8	B3/2500		
BM (30°-60°)	3538.8	12.8	B3/5000		
BH (60°-80°)	1114.9	4.0	B3/2500		G3/2500
BVH (80°-90°)	65.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1
2.5°	4945.6	4914.9	4822.6	4791.8	4682.5	4484.2	4415.9	4214.2	4128.8	4050.1	3957.9
5°	6254.7	6111.1	6100.9	5926.5	5673.6	5526.7	5089.2	4795.2	4525.2	4388.5	4135.6
7.5°	7088.6	7092.0	7092.0	6948.5	6746.8	6374.3	5981.2	5451.5	5044.7	4843.1	4412.4
10°	7881.6	7813.2	7775.6	7761.9	7625.2	7262.9	6842.5	6186.3	5629.2	5393.4	4620.9
12.5°	8442.1	8384.0	8469.4	8425.0	8325.9	8090.0	7693.6	6945.1	6247.8	5930.0	4955.9
15°	8708.7	8749.7	8818.0	8941.1	8896.7	8807.8	8370.3	7724.3	6914.3	6555.4	5253.2
17.5°	9118.8	9006.0	9088.1	9241.9	9364.9	9323.9	9074.4	8288.3	7574.0	7133.0	5653.1
20°	9405.9	9341.0	9382.0	9559.7	9652.0	9884.4	9754.5	9026.5	8206.3	7741.4	6124.8
22.5°	10226.2	10130.5	9997.2	10024.5	10058.7	10222.8	10253.5	9836.6	8941.1	8448.9	6572.5
25°	11237.9	11149.0	10991.8	10831.2	10732.0	10701.3	10807.2	10472.3	9645.2	9135.9	7054.4
27.5°	12352.1	12201.7	12102.6	11771.1	11504.5	11463.5	11412.2	11231.0	10479.1	9928.8	7597.9
30°	13435.6	13315.9	13182.6	12652.9	12376.0	12331.6	12078.7	12129.9	11384.9	10773.1	8213.1
32.5°	14255.8	14266.1	13961.9	13562.0	13302.3	13066.4	12974.2	13121.1	12546.9	12054.7	8900.1
35°	14918.9	14949.7	14659.1	14296.9	14016.6	14180.7	14139.6	14208.0	13934.6	13333.0	9699.9
37.5°	15564.9	15411.1	15100.1	14925.7	14778.8	15048.8	15397.4	15455.5	15506.8	14799.3	10629.5
40°	15670.8	15684.5	15503.4	15626.4	15441.8	15848.6	16658.6	16583.4	16791.9	16173.3	11637.8
42.5°	15520.4	15551.2	15623.0	15797.3	16241.6	16730.4	17933.4	17625.8	17878.8	17328.5	12618.7
45°	15274.4	15147.9	15236.8	15899.8	16668.8	17755.7	19098.9	18859.7	18777.7	18316.2	13787.6
47.5°	14098.6	14228.5	14505.3	15322.2	16477.4	17933.4	19926.1	19871.4	20117.5	19792.8	14850.5
50°	12468.3	12417.0	12950.2	13869.6	15359.8	17584.8	19881.6	20377.2	20907.0	20455.8	15325.6
52.5°	9337.6	9611.0	10069.0	11210.5	13336.4	15684.5	18911.0	19738.1	20168.7	20073.0	14942.8
55°	5902.6	5984.7	6261.5	7618.4	9532.4	12587.9	16210.9	18128.3	18897.3	19256.2	14590.8
57.5°	2867.6	2713.8	3052.1	4142.4	5506.2	8466.0	12502.5	15790.5	17461.8	18111.2	13825.2
60°	1497.0	1555.1	1688.4	2078.1	2847.1	4395.4	7792.7	10523.6	13076.7	14074.7	10479.1
62.5°	1240.7	1261.2	1350.0	1544.9	1893.5	2529.2	3978.4	5130.2	6668.2	7567.1	5960.7
65°	1052.7	1063.0	1158.7	1288.5	1510.7	1780.7	2047.3	2143.0	2594.1	2662.5	2119.1
67.5°	878.4	888.6	991.2	1114.2	1257.8	1329.5	1397.9	1391.1	1442.3	1421.8	1418.4
70°	676.7	687.0	792.9	922.8	994.6	953.6	1165.5	1213.3	1233.8	1250.9	1278.3
72.5°	488.8	509.3	591.3	683.6	646.0	741.7	960.4	1032.2	1059.5	1069.8	1104.0
75°	355.5	362.3	382.8	355.5	410.1	516.1	676.7	765.6	799.8	810.0	861.3
77.5°	157.2	160.6	164.1	205.1	263.2	321.3	403.3	475.1	522.9	536.6	550.3
80°	82.0	85.4	106.0	140.1	188.0	235.8	293.9	334.9	365.7	369.1	382.8
82.5°	51.3	54.7	75.2	99.1	133.3	174.3	215.3	249.5	273.4	276.8	280.3
85°	23.9	30.8	44.4	61.5	88.9	112.8	116.2	99.1	106.0	109.4	102.5
87.5°	6.8	10.3	13.7	10.3	13.7	13.7	17.1	20.5	20.5	20.5	23.9
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°	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1	3845.1
2.5°	3906.6	3875.8	3756.2	3711.8	3595.6	3616.1	3554.6	3551.1	3537.5	3534.1	3530.6
5°	4002.3	3906.6	3763.1	3653.7	3588.7	3581.9	3537.5	3537.5	3551.1	3561.4	3537.5
7.5°	4159.5	4050.1	3807.5	3704.9	3646.8	3636.6	3605.8	3581.9	3612.7	3602.4	3575.1
10°	4340.7	4149.3	3892.9	3804.1	3708.4	3684.4	3684.4	3694.7	3643.4	3660.5	3633.2
12.5°	4542.3	4286.0	4002.3	3899.8	3787.0	3773.3	3766.5	3691.3	3718.6	3704.9	3636.6
15°	4798.7	4443.2	4142.4	3968.1	3872.4	3810.9	3722.0	3708.4	3691.3	3657.1	3626.3
17.5°	5075.5	4614.1	4207.4	3988.6	3845.1	3800.6	3732.3	3660.5	3609.2	3616.1	3592.2
20°	5311.3	4771.3	4231.3	4009.1	3824.6	3739.1	3633.2	3588.7	3534.1	3530.6	3527.2
22.5°	5591.6	4983.2	4265.5	3954.4	3763.1	3674.2	3602.4	3523.8	3486.2	3438.4	3462.3
25°	5926.5	5065.3	4272.3	3923.7	3718.6	3561.4	3523.8	3438.4	3424.7	3356.3	3370.0
27.5°	6169.2	5109.7	4217.6	3828.0	3616.1	3496.5	3428.1	3366.6	3342.7	3291.4	3277.7
30°	6493.9	5178.0	4101.4	3708.4	3513.5	3380.3	3339.2	3325.6	3257.2	3202.5	3195.7
32.5°	6863.0	5222.5	4026.2	3585.3	3407.6	3305.1	3325.6	3260.6	3175.2	3127.3	3113.7
35°	7157.0	5239.6	3838.2	3445.2	3335.8	3270.9	3247.0	3233.3	3110.2	3065.8	3031.6
37.5°	7604.7	5202.0	3681.0	3346.1	3257.2	3233.3	3212.8	3120.5	2980.4	2915.4	2867.6
40°	8127.6	5191.7	3479.4	3205.9	3182.0	3209.4	3147.8	3004.3	2809.5	2737.7	2703.5
42.5°	8630.1	5263.5	3352.9	3130.7	3100.0	3110.2	3024.8	2809.5	2713.8	2672.8	2618.1
45°	9470.9	5413.9	3144.4	3014.5	3000.9	2994.0	2891.5	2665.9	2611.2	2560.0	2549.7
47.5°	10229.6	5314.8	3011.1	2894.9	2908.6	2871.0	2652.2	2580.5	2519.0	2467.7	2450.6
50°	10274.1	5078.9	2823.1	2802.6	2806.1	2741.1	2532.6	2484.8	2406.2	2372.0	2348.1
52.5°	10041.6	4692.7	2648.8	2655.7	2665.9	2560.0	2385.7	2351.5	2286.5	2238.7	2225.0
55°	9388.8	4091.2	2477.9	2505.3	2532.6	2331.0	2276.3	2190.8	2139.6	2071.2	2074.6
57.5°	8271.2	3294.8	2238.7	2283.1	2341.2	2119.1	2078.1	1972.1	1896.9	1842.2	1835.4
60°	5543.7	2344.6	1879.8	1896.9	2026.8	1937.9	1934.5	1828.5	1726.0	1678.2	1650.8
62.5°	3270.9	1791.0	1623.5	1606.4	1603.0	1654.2	1739.7	1702.1	1568.8	1476.5	1503.9
65°	1712.3	1548.3	1510.7	1452.6	1418.4	1404.7	1469.7	1486.8	1397.9	1298.8	1291.9
67.5°	1438.9	1438.9	1408.2	1387.6	1339.8	1281.7	1240.7	1186.0	1172.3	1145.0	1110.8
70°	1309.0	1343.2	1333.0	1285.1	1244.1	1179.2	1073.2	984.3	898.9	868.1	888.6
72.5°	1141.6	1175.7	1175.7	1151.8	1097.1	998.0	895.5	792.9	721.2	666.5	659.6
75°	878.4	895.5	936.5	909.1	837.4	775.9	669.9	563.9	495.6	444.3	434.1
77.5°	560.5	587.9	587.9	584.5	533.2	475.1	406.7	331.5	280.3	242.7	232.4
80°	372.5	389.6	403.3	389.6	355.5	311.0	259.8	208.5	170.9	140.1	133.3
82.5°	273.4	293.9	304.2	290.5	256.3	222.2	184.6	147.0	109.4	85.4	78.6
85°	106.0	109.4	123.0	147.0	143.5	140.1	112.8	82.0	61.5	44.4	41.0
87.5°	27.3	23.9	27.3	27.3	23.9	20.5	20.5	20.5	20.5	10.3	13.7
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)