

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: P529727

Luminaire Tested: **GALN-SA4D-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13682 lumens  
Efficiency: N/A  
Efficacy: 55.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

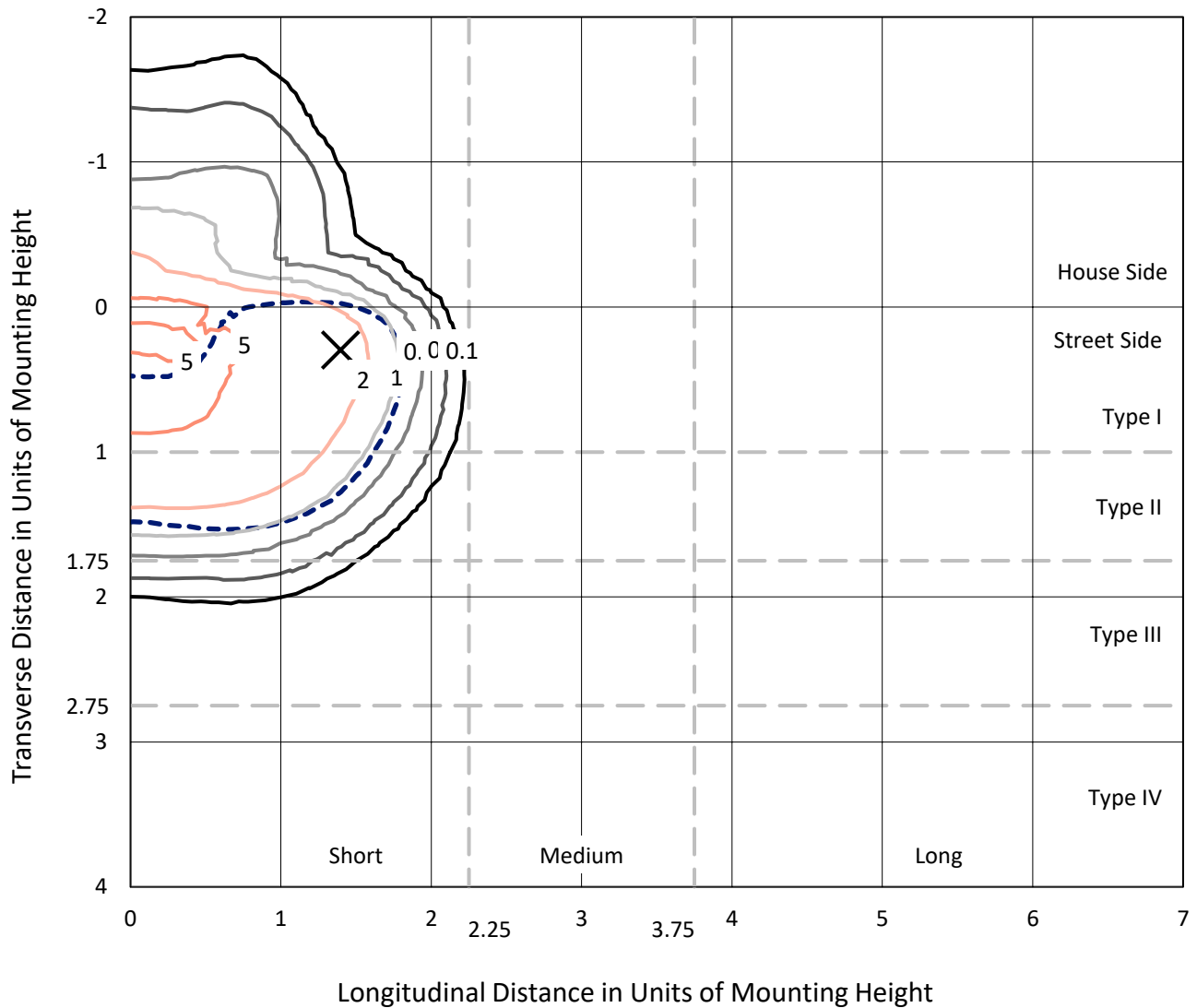
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

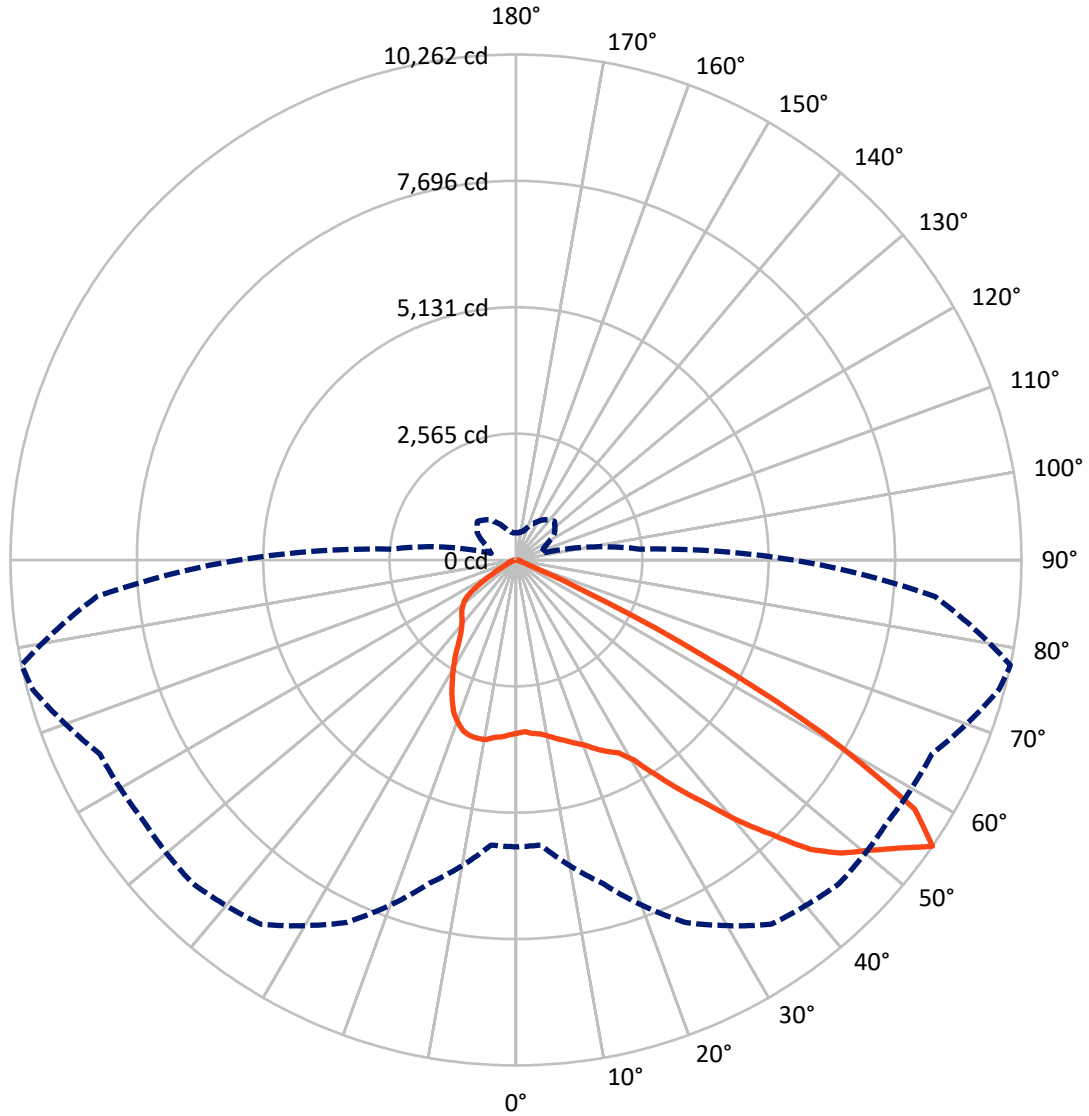
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2541.3	0.0	2541.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	11140.7	0.0	11140.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	13682.0	0.0	13682.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.7	2.3
10°-20°	830.1	6.1
20°-30°	1455.0	10.6
30°-40°	2399.2	17.5
40°-50°	3491.1	25.5
50°-60°	3955.8	28.9
60°-70°	1131.0	8.3
70°-80°	87.8	0.6
80°-90°	18.3	0.1
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°	13682.0	100.0
0°-180°	13682.0	100.0

**Coefficient of Utilization**



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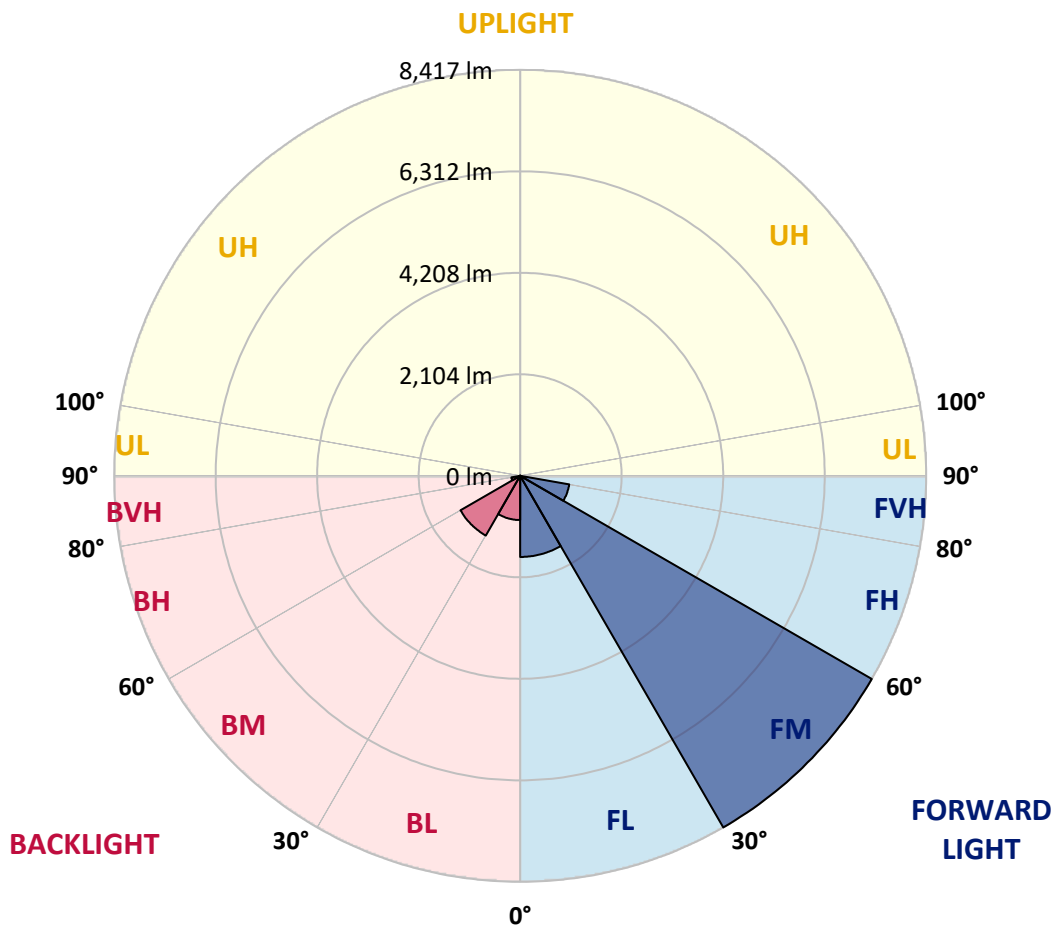
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1681.9	12.3			
FM (30°-60°)	8416.6	61.5			
FH (60°-80°)	1033.4	7.6			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	916.9	6.7	B2/1000		
BM (30°-60°)	1429.5	10.4	B2/2500		
BH (60°-80°)	185.5	1.4	B1/500		G1/500
BVH (80°-90°)	9.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7
2.5°	3307.3	3339.1	3344.0	3383.1	3380.7	3446.7	3466.3	3468.7	3512.8	3490.7	3547.0
5°	3214.3	3197.2	3189.9	3258.4	3277.9	3336.6	3385.6	3414.9	3505.4	3537.2	3595.9
7.5°	3131.1	3131.1	3136.0	3197.2	3189.9	3265.7	3317.1	3407.6	3539.7	3566.6	3637.5
10°	3050.4	3021.1	3057.8	3121.4	3175.2	3209.4	3317.1	3402.7	3556.8	3635.1	3732.9
12.5°	3008.8	3023.5	3028.4	3074.9	3133.6	3236.3	3295.0	3436.9	3679.1	3725.6	3830.8
15°	3270.6	3241.2	3170.3	3128.7	3177.6	3226.6	3373.3	3517.7	3742.7	3808.7	3926.2
17.5°	3573.9	3549.5	3490.7	3378.2	3268.1	3358.6	3473.6	3605.7	3811.2	3909.0	4082.7
20°	3970.2	3931.1	3872.4	3652.2	3556.8	3458.9	3581.3	3737.8	3923.7	4011.8	4190.4
22.5°	4442.3	4442.3	4310.2	4043.6	3845.4	3752.5	3803.9	3894.4	4048.5	4168.3	4344.5
25°	4934.0	4919.3	4799.5	4523.0	4187.9	4077.8	4136.5	4200.1	4241.7	4307.8	4425.2
27.5°	5496.6	5411.0	5259.4	4953.6	4657.6	4444.8	4508.4	4452.1	4400.7	4435.0	4603.8
30°	5878.2	5932.1	5738.8	5445.3	5166.4	4929.1	4941.3	4892.4	4657.6	4706.5	4806.8
32.5°	6274.5	6308.8	6201.1	6039.7	5760.8	5484.4	5384.1	5342.5	5166.4	5188.4	5090.6
35°	6604.8	6670.8	6575.4	6504.5	6423.7	6201.1	5924.7	6059.3	5775.5	5721.7	5467.3
37.5°	6908.1	6888.5	7001.1	6927.7	6910.5	6754.0	6450.7	6477.6	6286.8	6274.5	5981.0
40°	7179.6	7184.5	7338.6	7372.9	7304.4	7025.5	6585.2	6798.0	6952.1	6966.8	6590.1
42.5°	7404.7	7470.7	7602.8	7879.2	7776.5	7311.7	6724.6	6957.0	7529.4	7619.9	7167.4
45°	7600.4	7734.9	7898.8	8145.9	8087.2	7717.8	7072.0	7284.8	8145.9	8383.2	7710.5
47.5°	7612.6	7788.7	7967.3	8334.2	8407.6	7935.5	7431.6	7803.4	8635.1	8892.0	8106.7
50°	7563.7	7656.6	8013.8	8412.5	8578.9	8290.2	7935.5	8238.8	9109.7	9271.1	8307.3
52.5°	6983.9	7054.9	7771.6	8485.9	8887.1	8691.4	8603.3	8845.5	9594.0	9713.9	8495.7
55°	5822.0	5809.7	6795.6	8116.5	9029.0	9285.8	9232.0	9317.6	10154.2	10261.9	8542.2
57.5°	3982.4	4205.0	5056.3	6758.9	8160.6	9146.4	9202.6	9060.8	9501.1	9542.7	7446.3
60°	2147.8	2240.7	2925.7	4510.8	6213.4	7453.6	7600.4	7343.5	7309.3	7191.9	5315.6
62.5°	853.7	900.2	1289.2	2233.4	3385.6	4530.4	4845.9	4740.8	4515.7	4207.5	2752.0
65°	406.1	435.4	640.9	1044.5	1502.0	1888.5	2204.0	2301.9	1697.7	1528.9	907.5
67.5°	276.4	298.4	467.2	596.9	535.7	560.2	729.0	677.6	398.7	340.0	252.0
70°	210.4	225.1	374.3	406.1	239.7	168.8	188.4	176.1	163.9	166.3	163.9
72.5°	149.2	161.4	274.0	239.7	105.2	78.3	100.3	119.9	119.9	119.9	117.4
75°	90.5	102.7	159.0	93.0	41.6	41.6	63.6	80.7	85.6	88.1	83.2
77.5°	46.5	58.7	53.8	26.9	26.9	31.8	46.5	56.3	61.2	61.2	58.7
80°	9.8	9.8	9.8	14.7	26.9	34.2	46.5	51.4	58.7	58.7	53.8
82.5°	0.0	2.4	7.3	14.7	24.5	31.8	44.0	51.4	58.7	61.2	56.3
85°	0.0	2.4	4.9	9.8	17.1	19.6	17.1	14.7	14.7	14.7	14.7
87.5°	0.0	0.0	2.4	2.4	2.4	4.9	4.9	4.9	4.9	4.9	4.9
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°	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7	3517.7
2.5°	3551.9	3559.2	3547.0	3544.6	3534.8	3564.1	3493.2	3476.1	3520.1	3478.5	3488.3
5°	3598.4	3615.5	3593.5	3556.8	3503.0	3419.8	3348.9	3255.9	3211.9	3180.1	3175.2
7.5°	3632.6	3644.9	3622.8	3505.4	3344.0	3133.6	2977.0	2862.1	2771.6	2744.6	2700.6
10°	3772.1	3774.5	3664.4	3405.1	3089.6	2813.1	2573.4	2397.3	2306.8	2250.5	2226.1
12.5°	3865.0	3860.1	3637.5	3207.0	2786.2	2419.3	2145.3	1932.5	1849.3	1822.4	1805.3
15°	3982.4	3955.5	3573.9	3003.9	2394.8	1998.6	1751.5	1604.7	1597.4	1580.3	1597.4
17.5°	4075.4	3999.6	3481.0	2634.6	2020.6	1646.3	1484.8	1494.6	1514.2	1531.3	1533.8
20°	4227.1	4070.5	3268.1	2311.7	1673.2	1411.5	1409.0	1453.0	1502.0	1521.5	1541.1
22.5°	4342.0	4099.8	3040.6	1966.8	1389.4	1316.1	1357.6	1423.7	1460.4	1480.0	1509.3
25°	4383.6	4019.1	2737.3	1621.8	1252.5	1272.0	1335.6	1379.7	1426.1	1448.2	1435.9
27.5°	4425.2	3977.5	2375.3	1335.6	1179.1	1242.7	1296.5	1340.5	1355.2	1384.6	1404.1
30°	4525.5	3833.2	2049.9	1154.6	1142.4	1223.1	1262.2	1276.9	1316.1	1333.2	1333.2
32.5°	4606.2	3776.9	1705.0	1069.0	1137.5	1232.9	1237.8	1237.8	1242.7	1230.4	1225.6
35°	4772.6	3583.7	1396.8	1017.6	1135.0	1235.3	1247.6	1206.0	1093.5	1049.4	1037.2
37.5°	4978.0	3458.9	1169.3	1005.4	1152.2	1264.7	1284.3	1127.7	980.9	910.0	897.8
40°	5227.6	3370.9	1020.1	1000.5	1191.3	1333.2	1274.5	1066.5	875.7	773.0	768.1
42.5°	5518.7	3290.2	919.8	998.1	1240.2	1404.1	1264.7	1015.2	768.1	699.6	709.4
45°	5751.0	3246.1	851.3	980.9	1257.4	1445.7	1272.0	924.7	724.1	680.0	684.9
47.5°	5932.1	3153.2	795.0	951.6	1254.9	1460.4	1206.0	888.0	702.1	714.3	726.5
50°	5937.0	3028.4	724.1	888.0	1218.2	1433.5	1130.1	853.7	697.2	748.5	773.0
52.5°	5870.9	2852.3	648.2	797.5	1132.6	1340.5	1061.7	839.1	675.2	670.3	699.6
55°	5636.1	2522.0	521.0	645.8	956.5	1105.7	1000.5	812.1	609.1	552.8	557.7
57.5°	4554.8	1807.7	384.1	462.3	677.6	809.7	902.7	799.9	548.0	469.7	472.1
60°	2820.5	1025.0	281.3	315.6	418.3	491.7	731.4	743.6	489.2	396.3	391.4
62.5°	1448.2	506.4	217.7	222.6	256.9	288.7	501.5	623.8	442.8	376.7	376.7
65°	484.3	249.5	190.8	171.2	171.2	178.6	303.3	433.0	374.3	315.6	315.6
67.5°	207.9	185.9	166.3	149.2	137.0	129.6	171.2	252.0	278.9	239.7	229.9
70°	161.4	156.6	144.3	124.8	107.6	97.8	100.3	129.6	159.0	154.1	149.2
72.5°	119.9	119.9	115.0	97.8	83.2	70.9	66.0	68.5	75.8	78.3	80.7
75°	83.2	85.6	85.6	75.8	61.2	51.4	44.0	36.7	29.4	24.5	22.0
77.5°	56.3	58.7	63.6	56.3	46.5	34.2	26.9	19.6	12.2	4.9	4.9
80°	48.9	56.3	61.2	56.3	48.9	36.7	26.9	14.7	7.3	0.0	0.0
82.5°	51.4	56.3	63.6	53.8	46.5	34.2	26.9	17.1	7.3	2.4	0.0
85°	12.2	12.2	14.7	17.1	22.0	24.5	19.6	12.2	7.3	2.4	0.0
87.5°	4.9	4.9	4.9	4.9	4.9	2.4	2.4	2.4	2.4	0.0	0.0
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)