

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: P651369

Luminaire Tested: **GALN-SA4D-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651369  
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-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 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: 15652.7 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

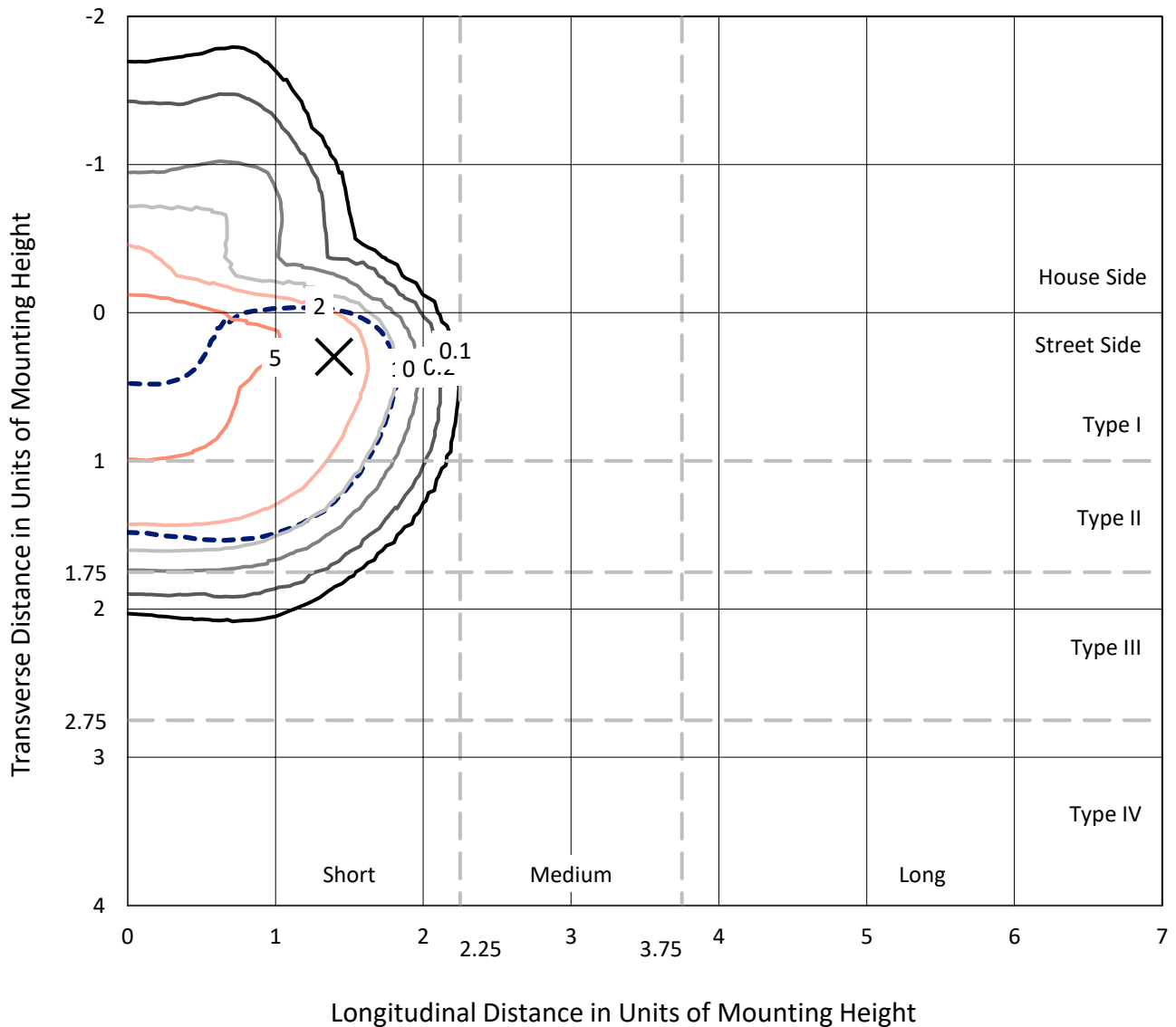
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

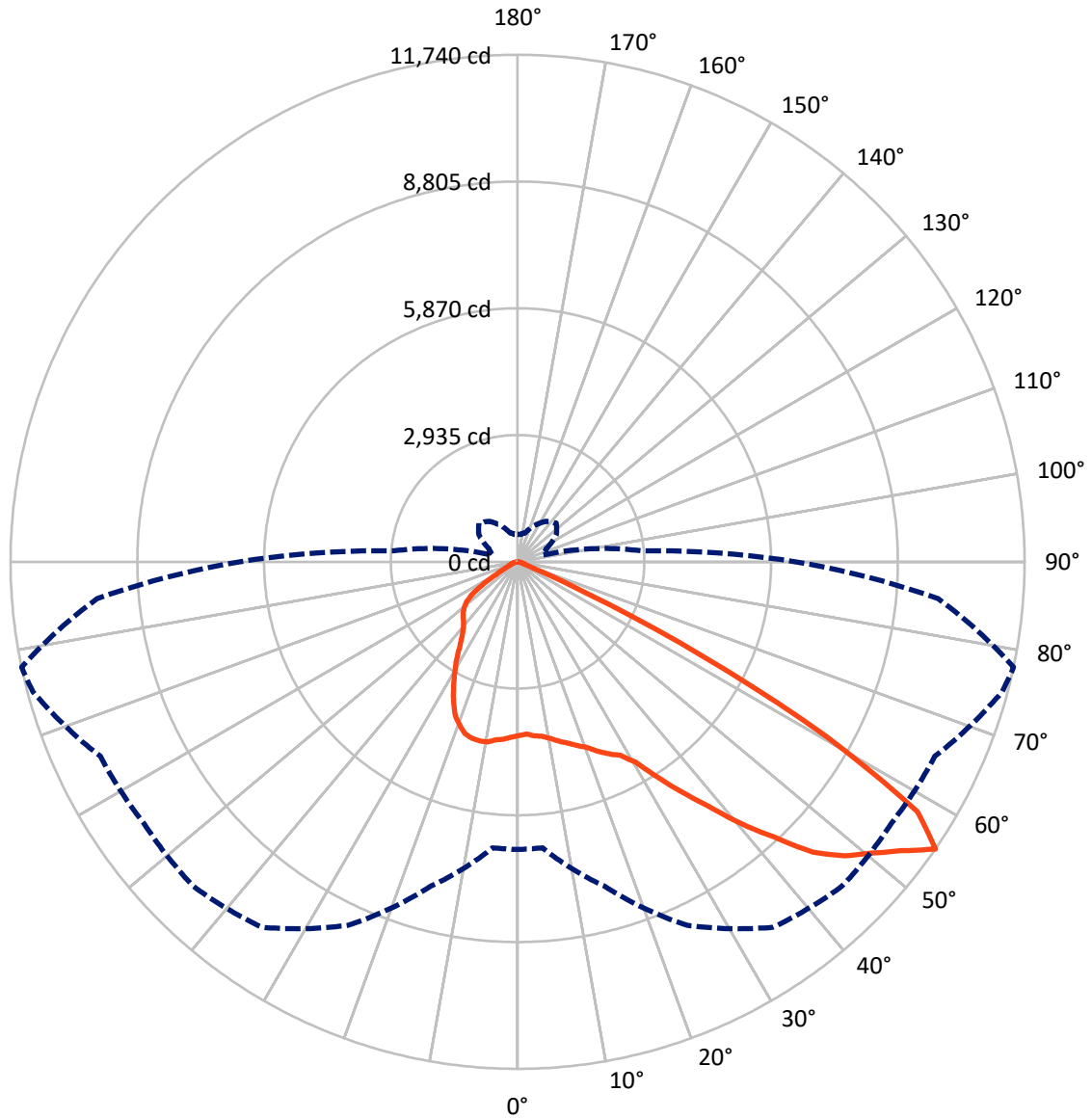
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P651369  
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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	2907.3	0.0	2907.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	12745.4	0.0	12745.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	15652.7	0.0	15652.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.8	2.3
10°-20°	949.7	6.1
20°-30°	1664.6	10.6
30°-40°	2744.7	17.5
40°-50°	3993.9	25.5
50°-60°	4525.6	28.9
60°-70°	1293.9	8.3
70°-80°	100.5	0.6
80°-90°	20.9	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°	15652.7	100.0
0°-180°	15652.7	100.0

**Coefficient of Utilization**



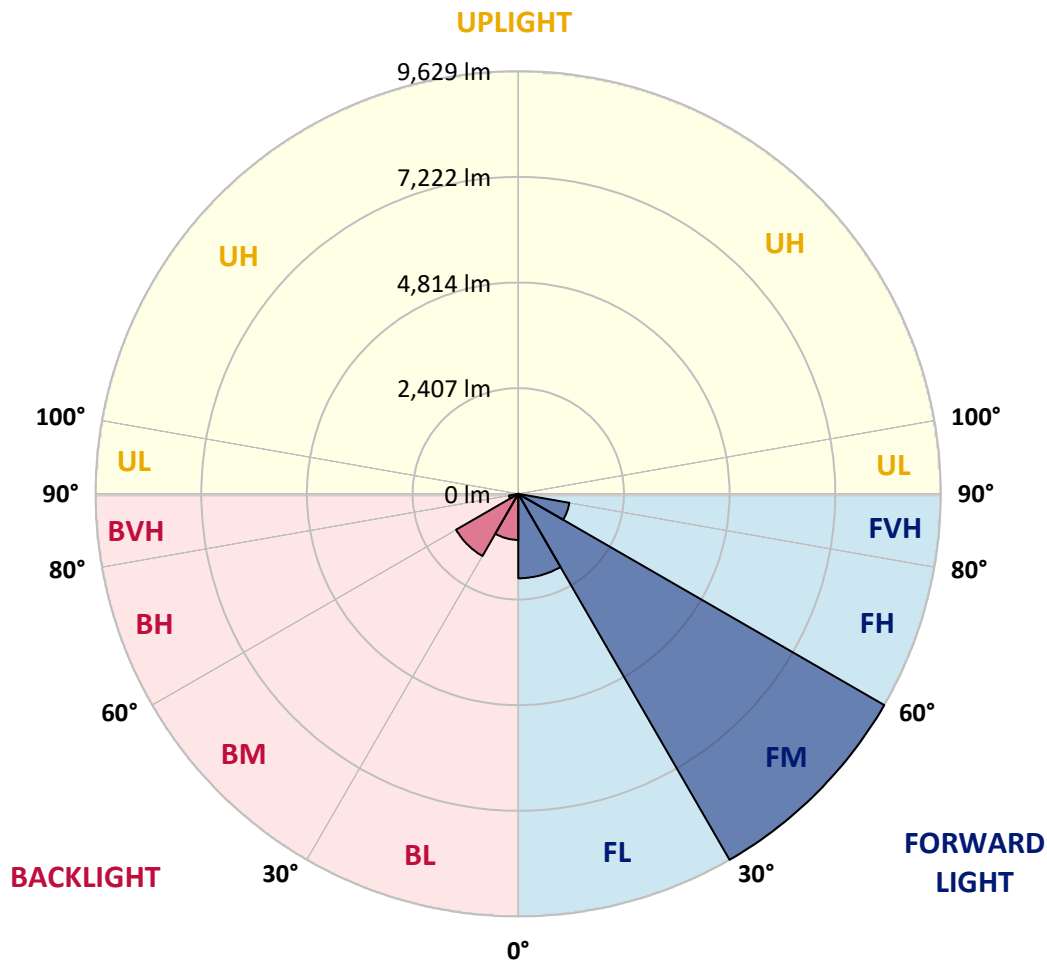
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1924.2	12.3			
FM (30°-60°)	9628.8	61.5			
FH (60°-80°)	1182.2	7.6			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	1049.0	6.7	B3/2500		
BM (30°-60°)	1635.4	10.4	B2/2500		
BH (60°-80°)	212.2	1.4	B1/500		G1/500
BVH (80°-90°)	10.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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CATALOG NUMBER: GALN-SA4D-840-U-T3R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4
2.5°	3783.7	3820.0	3825.6	3870.4	3867.6	3943.2	3965.6	3968.3	4018.7	3993.6	4057.9
5°	3677.3	3657.7	3649.4	3727.6	3750.0	3817.2	3873.2	3906.8	4010.3	4046.7	4113.8
7.5°	3582.2	3582.2	3587.7	3657.7	3649.4	3736.1	3794.8	3898.4	4049.5	4080.3	4161.4
10°	3489.8	3456.2	3498.2	3571.0	3632.5	3671.7	3794.8	3892.8	4069.1	4158.7	4270.6
12.5°	3442.2	3459.0	3464.6	3517.8	3584.9	3702.5	3769.6	3931.9	4209.0	4262.2	4382.5
15°	3741.7	3708.1	3626.9	3579.4	3635.3	3691.3	3859.2	4024.4	4281.8	4357.3	4491.7
17.5°	4088.7	4060.7	3993.6	3864.8	3738.8	3842.4	3974.0	4125.1	4360.2	4472.1	4670.7
20°	4542.1	4497.2	4430.1	4178.3	4069.1	3957.2	4097.1	4276.1	4488.8	4589.6	4794.0
22.5°	5082.2	5082.2	4931.0	4626.0	4399.4	4293.0	4351.8	4455.3	4631.6	4768.7	4970.2
25°	5644.7	5627.9	5490.7	5174.5	4791.1	4665.2	4732.4	4805.1	4852.7	4928.3	5062.6
27.5°	6288.3	6190.4	6016.9	5667.1	5328.4	5084.9	5157.8	5093.3	5034.6	5073.8	5266.8
30°	6724.9	6786.4	6565.4	6229.5	5910.5	5639.1	5653.0	5597.1	5328.4	5384.4	5499.1
32.5°	7178.3	7217.5	7094.3	6909.7	6590.6	6274.4	6159.7	6112.1	5910.5	5935.7	5823.8
35°	7556.0	7631.7	7522.5	7441.3	7349.0	7094.3	6778.1	6932.0	6607.4	6545.8	6254.8
37.5°	7903.1	7880.8	8009.4	7925.5	7905.9	7726.8	7379.8	7410.6	7192.3	7178.3	6842.5
40°	8213.7	8219.3	8395.6	8434.8	8356.5	8037.4	7533.7	7777.1	7953.5	7970.2	7539.3
42.5°	8471.2	8546.7	8697.9	9014.2	8896.6	8364.8	7693.2	7959.1	8613.9	8717.5	8199.8
45°	8695.1	8849.0	9036.5	9319.2	9252.0	8829.4	8090.6	8334.1	9319.2	9590.6	8821.0
47.5°	8709.1	8910.6	9114.8	9534.7	9618.6	9078.5	8502.0	8927.4	9878.9	10172.7	9274.4
50°	8653.1	8759.4	9168.1	9624.2	9814.6	9484.3	9078.5	9425.5	10421.8	10606.5	9503.9
52.5°	7989.8	8071.0	8891.0	9708.2	10167.1	9943.2	9842.5	10119.6	10975.9	11113.1	9719.4
55°	6660.6	6646.6	7774.4	9285.6	10329.4	10623.3	10561.7	10659.7	11616.8	11739.9	9772.5
57.5°	4556.0	4810.7	5784.6	7732.4	9335.9	10463.8	10528.1	10365.8	10869.6	10917.2	8518.8
60°	2457.1	2563.5	3347.1	5160.5	7108.3	8527.2	8695.1	8401.3	8362.1	8227.8	6081.3
62.5°	976.7	1029.9	1474.9	2555.0	3873.2	5182.9	5544.0	5423.6	5166.1	4813.5	3148.4
65°	464.6	498.1	733.2	1195.0	1718.3	2160.4	2521.5	2633.4	1942.2	1749.1	1038.3
67.5°	316.2	341.4	534.5	682.8	612.9	640.8	833.9	775.2	456.2	389.0	288.2
70°	240.7	257.4	428.2	464.6	274.3	193.1	215.5	201.5	187.5	190.3	187.5
72.5°	170.7	184.7	313.4	274.3	120.3	89.6	114.7	137.2	137.2	137.2	134.3
75°	103.5	117.6	181.9	106.4	47.6	47.6	72.7	92.3	98.0	100.8	95.1
77.5°	53.2	67.2	61.6	30.8	30.8	36.4	53.2	64.3	70.0	70.0	67.2
80°	11.2	11.2	11.2	16.8	30.8	39.2	53.2	58.8	67.2	67.2	61.6
82.5°	0.0	2.8	8.4	16.8	28.0	36.4	50.4	58.8	67.2	70.0	64.3
85°	0.0	2.8	5.6	11.2	19.6	22.4	19.6	16.8	16.8	16.8	16.8
87.5°	0.0	0.0	2.8	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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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CATALOG NUMBER: GALN-SA4D-840-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4
2.5°	4063.5	4071.9	4057.9	4055.1	4043.9	4077.5	3996.3	3976.8	4027.1	3979.5	3990.7
5°	4116.7	4136.3	4111.1	4069.1	4007.5	3912.4	3831.2	3724.9	3674.5	3638.1	3632.5
7.5°	4155.9	4169.8	4144.6	4010.3	3825.6	3584.9	3405.8	3274.3	3170.7	3140.0	3089.6
10°	4315.3	4318.2	4192.2	3895.6	3534.6	3218.3	2944.1	2742.6	2639.1	2574.6	2546.7
12.5°	4421.7	4416.1	4161.4	3668.9	3187.6	2767.7	2454.3	2210.8	2115.7	2084.9	2065.3
15°	4556.0	4525.3	4088.7	3436.7	2739.8	2286.4	2003.8	1835.8	1827.5	1807.9	1827.5
17.5°	4662.4	4575.6	3982.3	3014.1	2311.6	1883.4	1698.7	1709.9	1732.3	1751.9	1754.7
20°	4835.9	4656.8	3738.8	2644.6	1914.2	1614.8	1611.9	1662.3	1718.3	1740.7	1763.1
22.5°	4967.5	4690.3	3478.6	2250.0	1589.6	1505.6	1553.2	1628.8	1670.7	1693.1	1726.7
25°	5015.0	4598.0	3131.5	1855.4	1432.9	1455.3	1528.0	1578.4	1631.5	1656.8	1642.7
27.5°	5062.6	4550.5	2717.4	1528.0	1348.9	1421.6	1483.3	1533.6	1550.4	1583.9	1606.4
30°	5177.3	4385.3	2345.2	1320.9	1306.9	1399.3	1444.1	1460.8	1505.6	1525.2	1525.2
32.5°	5269.7	4321.0	1950.6	1223.0	1301.4	1410.4	1416.1	1416.1	1421.6	1407.7	1402.1
35°	5459.9	4099.9	1598.0	1164.2	1298.5	1413.3	1427.3	1379.7	1251.0	1200.6	1186.6
37.5°	5695.1	3957.2	1337.7	1150.2	1318.1	1446.9	1469.2	1290.1	1122.2	1041.1	1027.0
40°	5980.5	3856.4	1167.0	1144.6	1362.9	1525.2	1458.0	1220.2	1001.9	884.3	878.8
42.5°	6313.6	3764.1	1052.3	1141.8	1418.9	1606.4	1446.9	1161.4	878.8	800.4	811.6
45°	6579.4	3713.7	973.9	1122.2	1438.4	1653.9	1455.3	1057.9	828.4	778.0	783.6
47.5°	6786.4	3607.3	909.5	1088.7	1435.7	1670.7	1379.7	1015.8	803.2	817.2	831.2
50°	6792.1	3464.6	828.4	1015.8	1393.7	1640.0	1293.0	976.7	797.6	856.4	884.3
52.5°	6716.6	3263.1	741.6	912.3	1295.7	1533.6	1214.6	959.9	772.4	766.8	800.4
55°	6447.9	2885.3	596.1	738.8	1094.2	1264.9	1144.6	929.1	696.9	632.4	638.1
57.5°	5210.9	2068.1	439.3	528.9	775.2	926.4	1032.7	915.1	626.9	537.3	540.1
60°	3226.7	1172.6	321.9	361.0	478.5	562.5	836.8	850.8	559.7	453.4	447.7
62.5°	1656.8	579.3	249.1	254.7	293.8	330.3	573.7	713.6	506.5	431.0	431.0
65°	554.1	285.4	218.3	195.9	195.9	204.3	347.0	495.3	428.2	361.0	361.0
67.5°	237.8	212.7	190.3	170.7	156.7	148.4	195.9	288.2	319.1	274.3	263.1
70°	184.7	179.1	165.1	142.7	123.1	111.9	114.7	148.4	181.9	176.3	170.7
72.5°	137.2	137.2	131.5	111.9	95.1	81.2	75.5	78.4	86.8	89.6	92.3
75°	95.1	98.0	98.0	86.8	70.0	58.8	50.4	42.0	33.6	28.0	25.1
77.5°	64.3	67.2	72.7	64.3	53.2	39.2	30.8	22.4	14.0	5.6	5.6
80°	56.0	64.3	70.0	64.3	56.0	42.0	30.8	16.8	8.4	0.0	0.0
82.5°	58.8	64.3	72.7	61.6	53.2	39.2	30.8	19.6	8.4	2.8	0.0
85°	14.0	14.0	16.8	19.6	25.1	28.0	22.4	14.0	8.4	2.8	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	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)