

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: P646888

Luminaire Tested: **GALN-SA4C-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646888  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12734.7 lumens  
Efficiency: N/A  
Efficacy: 59.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

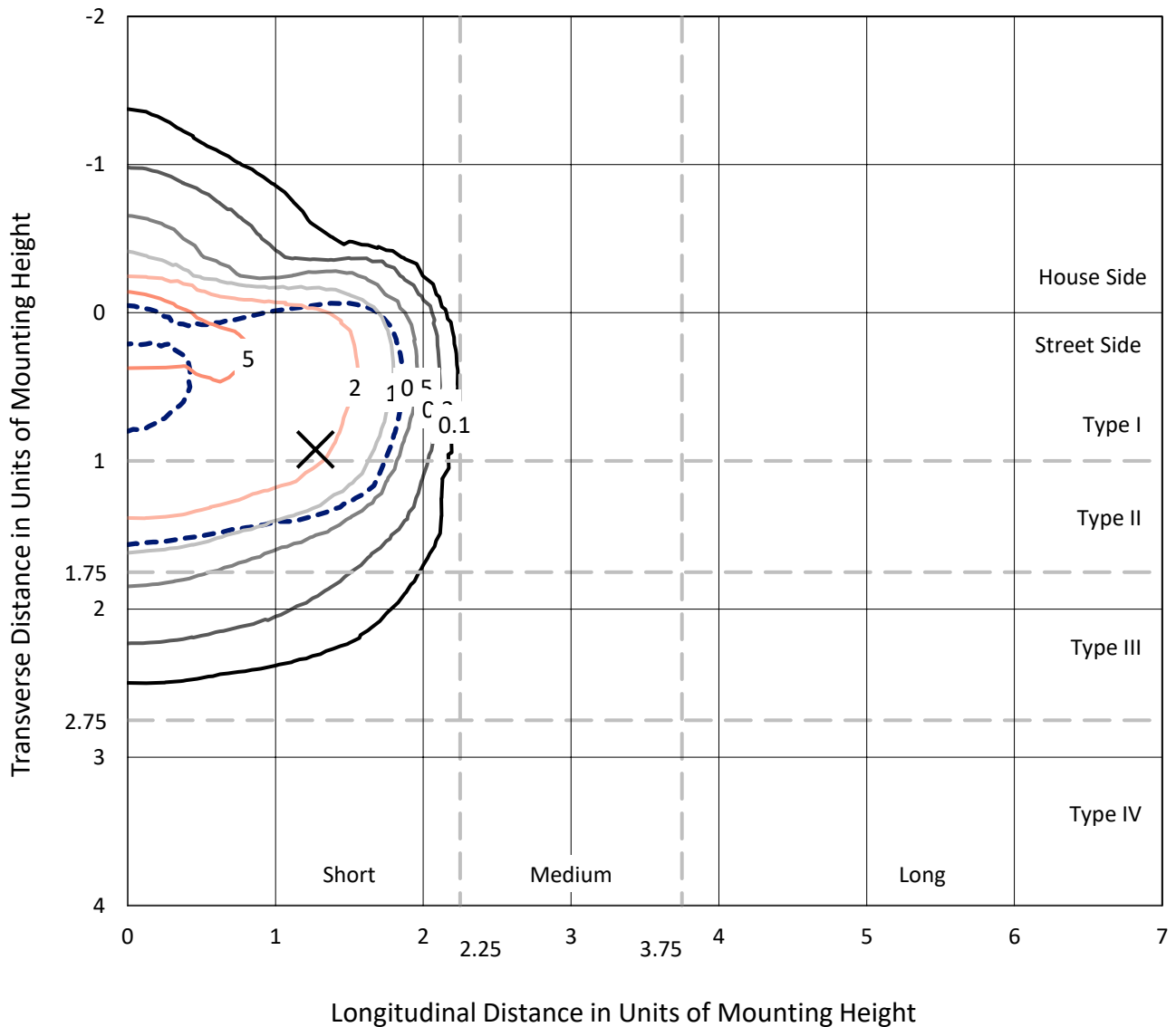
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

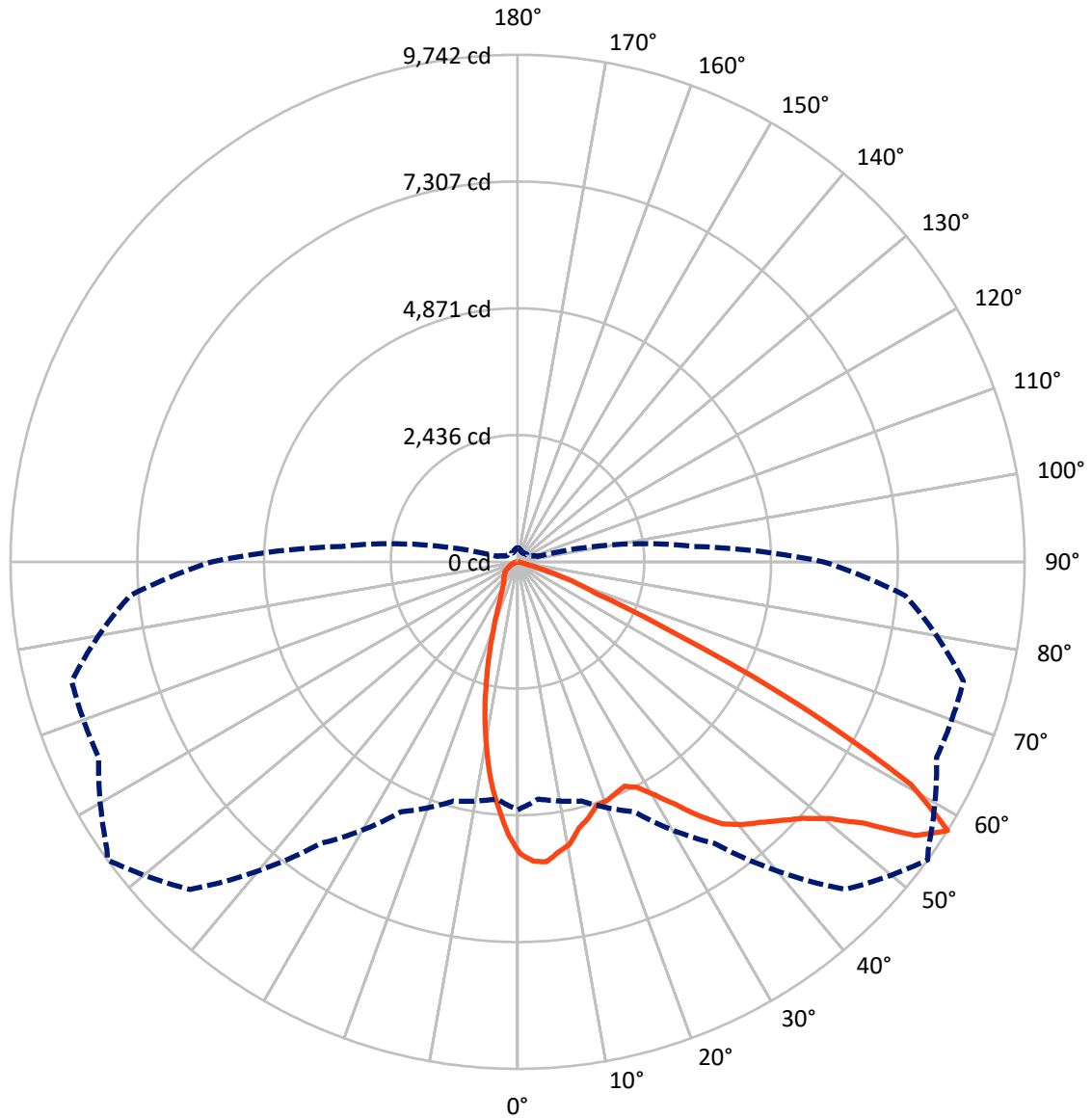
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1799.6	0.0	1799.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	10935.1	0.0	10935.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	12734.7	0.0	12734.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.4	3.7
10°-20°	1002.2	7.9
20°-30°	1328.2	10.4
30°-40°	1930.2	15.2
40°-50°	2862.2	22.5
50°-60°	3579.1	28.1
60°-70°	1411.8	11.1
70°-80°	140.6	1.1
80°-90°	10.9	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°	12734.7	100.0
0°-180°	12734.7	100.0

**Coefficient of Utilization**

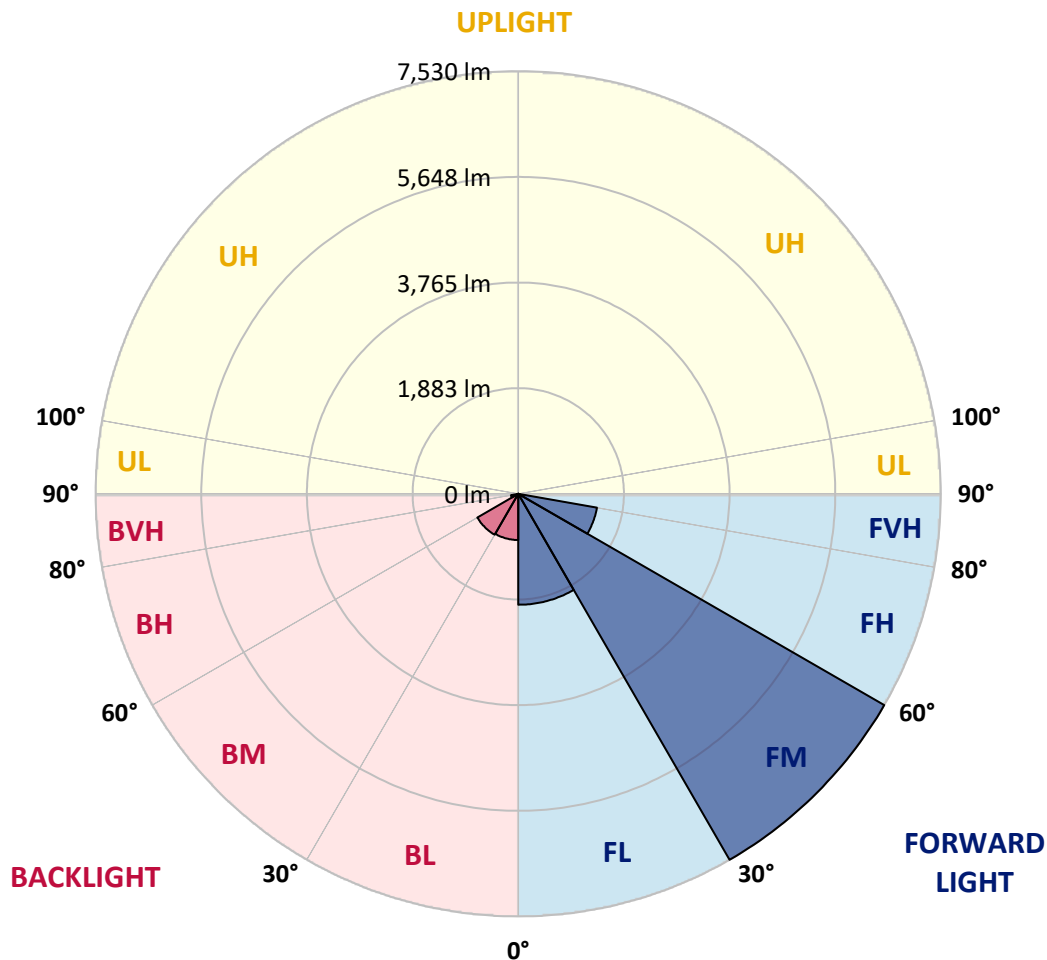


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1976.8	15.5			
FM (30°-60°)	7530.0	59.1			
FH (60°-80°)	1423.3	11.2			G1/1800
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	823.1	6.5	B2/1000		
BM (30°-60°)	841.6	6.6	B1/1000		
BH (60°-80°)	129.0	1.0	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			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°	54°	55°	65°	75°	85°
0°	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8
2.5°	5936.6	5875.0	5879.8	5858.5	5830.1	5851.4	5759.0	5780.3	5777.9	5652.4	5569.6
5°	5787.4	5853.7	5785.0	5841.9	5787.4	5846.6	5789.8	5747.1	5678.5	5586.2	5432.2
7.5°	5534.0	5470.1	5489.1	5560.1	5571.9	5704.5	5633.5	5687.9	5659.5	5477.2	5266.5
10°	5024.9	5010.7	5105.4	5200.1	5316.2	5458.3	5512.7	5481.9	5460.6	5392.0	5110.2
12.5°	4634.2	4674.4	4672.1	4828.4	5024.9	5105.4	5247.5	5242.7	5361.2	5233.3	4963.4
15°	4262.4	4283.7	4383.2	4480.2	4698.2	4927.8	5103.0	5126.8	5268.8	5178.8	4849.7
17.5°	4035.1	4004.3	4082.5	4198.4	4421.1	4721.8	4916.0	4972.8	5167.0	5148.1	4719.5
20°	3810.2	3810.2	3874.0	4011.4	4215.0	4553.7	4899.4	4882.9	5167.0	5112.5	4579.8
22.5°	3734.4	3772.3	3788.8	3893.0	4134.6	4425.8	4828.4	4859.1	5207.3	5095.9	4518.1
25°	3838.6	3788.8	3793.6	3876.4	4103.8	4364.2	4776.3	4845.0	5280.6	5178.8	4468.4
27.5°	3855.1	3904.8	3919.1	3975.9	4127.4	4383.2	4906.5	5046.2	5463.0	5373.0	4482.7
30°	3999.6	4049.3	4046.9	4144.0	4248.2	4537.1	5197.8	5226.2	5839.5	5616.9	4570.3
32.5°	4174.8	4226.9	4243.5	4357.2	4440.0	4818.9	5553.0	5626.4	6201.8	6000.5	4799.9
35°	4392.6	4373.7	4449.5	4563.2	4740.8	5230.9	5986.3	6109.4	6592.5	6497.8	5036.7
37.5°	4665.0	4641.3	4714.7	4899.4	5140.9	5718.7	6386.5	6467.0	6876.7	6959.5	5474.8
40°	4856.8	4866.3	5088.9	5337.5	5593.2	6182.9	6639.9	6718.1	7075.6	7390.6	5806.3
42.5°	5176.5	5235.7	5503.2	5806.3	6074.0	6531.0	6845.9	6921.7	7168.0	7736.3	6253.9
45°	5640.6	5614.6	5910.6	6249.2	6545.2	6893.3	7089.8	7063.8	7222.4	8079.6	6535.7
47.5°	6237.3	6242.1	6438.6	6727.5	7035.3	7208.2	7362.2	7269.8	7336.1	8441.9	6912.2
50°	6644.6	6680.2	6838.8	7134.8	7288.7	7553.9	7750.5	7693.7	7672.4	8659.8	7149.0
52.5°	6748.8	6855.4	6940.7	7310.0	7670.0	8089.1	8340.1	8460.9	8082.0	8733.2	7449.8
55°	5962.6	6057.4	6358.1	6864.9	7814.4	8936.8	9282.6	9285.0	8617.1	9060.0	7660.5
57.5°	4766.8	4575.0	4759.7	5297.2	6606.7	8901.4	9742.0	9630.7	8884.8	8868.2	7478.2
60°	3296.3	3248.9	3260.7	3473.9	4572.6	7080.4	8681.1	8825.6	8181.5	7686.6	5920.0
62.5°	2611.9	2571.7	2519.5	2495.9	2839.2	4411.6	6123.7	6327.3	5721.1	4984.7	3509.4
65°	2046.0	2022.3	2029.4	2124.1	2121.8	2503.0	3348.3	3265.5	2614.3	1932.3	1103.5
67.5°	1380.6	1416.1	1444.5	1731.0	1877.9	1742.9	1617.4	1570.0	850.1	357.6	243.9
70°	776.7	781.4	812.2	1082.2	1425.5	1352.2	1115.3	1115.3	423.8	130.2	139.7
72.5°	423.8	409.7	381.2	466.5	634.6	644.1	497.3	433.3	125.5	85.3	78.1
75°	206.0	203.7	175.2	144.5	137.3	113.7	87.6	80.5	56.8	54.5	47.4
77.5°	42.6	40.2	21.3	21.3	23.6	26.1	33.1	33.1	40.2	40.2	33.1
80°	0.0	0.0	2.3	9.5	16.6	23.6	28.4	28.4	33.1	33.1	26.1
82.5°	0.0	0.0	2.3	7.1	14.2	21.3	26.1	28.4	33.1	35.5	28.4
85°	0.0	0.0	0.0	4.7	11.8	16.6	14.2	14.2	11.8	9.5	4.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8	5609.8
2.5°	5527.0	5522.2	5413.3	5351.7	5240.4	5143.3	5065.1	5008.3	5008.3	4972.8	4939.6
5°	5370.7	5330.4	5098.3	4949.1	4738.4	4582.1	4475.5	4392.6	4262.4	4298.0	4158.2
7.5°	5176.5	5074.6	4766.8	4539.4	4248.2	4025.6	3798.3	3597.0	3402.8	3315.2	3362.6
10°	4968.1	4790.5	4376.1	4016.2	3653.9	3246.6	2981.4	2659.3	2460.3	2448.5	2396.4
12.5°	4747.9	4546.6	4042.2	3544.9	3069.0	2578.7	2173.8	1873.1	1738.1	1588.9	1617.4
15°	4582.1	4283.7	3670.4	3071.3	2439.0	1944.1	1536.9	1304.8	1176.9	1141.4	1129.6
17.5°	4402.1	4082.5	3291.5	2566.9	1913.3	1399.5	1105.8	994.6	944.8	944.8	937.7
20°	4215.0	3855.1	2915.0	2098.0	1435.0	1044.3	885.7	850.1	847.8	845.4	845.4
22.5°	4091.9	3594.7	2574.0	1667.1	1082.2	835.9	769.6	755.4	764.8	793.3	793.3
25°	3961.7	3343.6	2197.5	1285.8	838.3	717.5	679.6	689.1	712.8	738.8	729.4
27.5°	3829.1	3180.2	1842.3	1008.7	686.7	627.5	613.3	634.6	660.7	684.3	677.2
30°	3798.3	3005.0	1506.0	764.8	589.6	547.0	556.5	575.4	601.5	611.0	620.4
32.5°	3845.6	2867.7	1233.7	627.5	513.9	502.0	502.0	511.5	528.1	549.4	542.3
35°	3980.6	2789.5	975.6	544.7	471.2	459.4	457.0	466.5	476.0	483.1	476.0
37.5°	4186.6	2728.0	798.0	483.1	442.8	423.8	419.1	416.8	426.3	428.6	433.3
40°	4449.5	2761.1	677.2	445.2	414.4	393.1	378.9	378.9	378.9	386.0	388.4
42.5°	4733.6	2806.1	584.9	423.8	388.4	362.3	348.1	343.3	348.1	357.6	355.2
45°	5032.0	2893.7	525.7	390.7	364.6	331.5	312.6	307.9	319.7	338.6	336.2
47.5°	5311.5	3019.2	480.7	369.4	341.0	310.2	286.5	281.8	303.1	329.2	331.5
50°	5590.9	3237.1	464.2	352.8	324.4	288.9	267.6	262.9	286.5	319.7	326.8
52.5°	5912.9	3471.5	452.3	331.5	305.4	272.3	248.6	243.9	270.0	312.6	314.9
55°	6123.7	3670.4	442.8	293.6	270.0	246.3	227.3	225.0	253.4	291.3	300.8
57.5°	5877.4	3393.4	409.7	255.7	229.7	217.8	201.3	201.3	225.0	260.5	267.6
60°	4456.6	2233.0	291.3	206.0	194.2	187.1	179.9	179.9	198.9	225.0	227.3
62.5°	2609.6	1202.9	187.1	165.8	165.8	158.6	146.8	146.8	165.8	179.9	182.4
65°	774.3	386.0	151.6	142.1	139.7	127.9	116.0	113.7	127.9	135.0	132.6
67.5°	222.6	177.6	125.5	118.4	116.0	97.1	90.0	87.6	90.0	85.3	82.8
70°	132.6	120.7	97.1	99.4	87.6	71.0	64.0	61.5	56.8	49.7	45.0
72.5°	73.4	73.4	71.0	75.8	61.5	47.4	40.2	33.1	26.1	21.3	18.9
75°	45.0	47.4	49.7	52.1	40.2	30.8	26.1	16.6	9.5	4.7	4.7
77.5°	30.8	33.1	35.5	37.9	33.1	28.4	21.3	11.8	2.3	0.0	0.0
80°	23.6	26.1	30.8	33.1	35.5	37.9	28.4	11.8	2.3	0.0	0.0
82.5°	26.1	28.4	35.5	33.1	33.1	33.1	26.1	11.8	2.3	0.0	0.0
85°	4.7	7.1	11.8	11.8	16.6	21.3	16.6	4.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)