

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: P529323

Luminaire Tested: **GALN-SA4C-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529323  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-727-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13576 lumens  
Efficiency: N/A  
Efficacy: 63.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

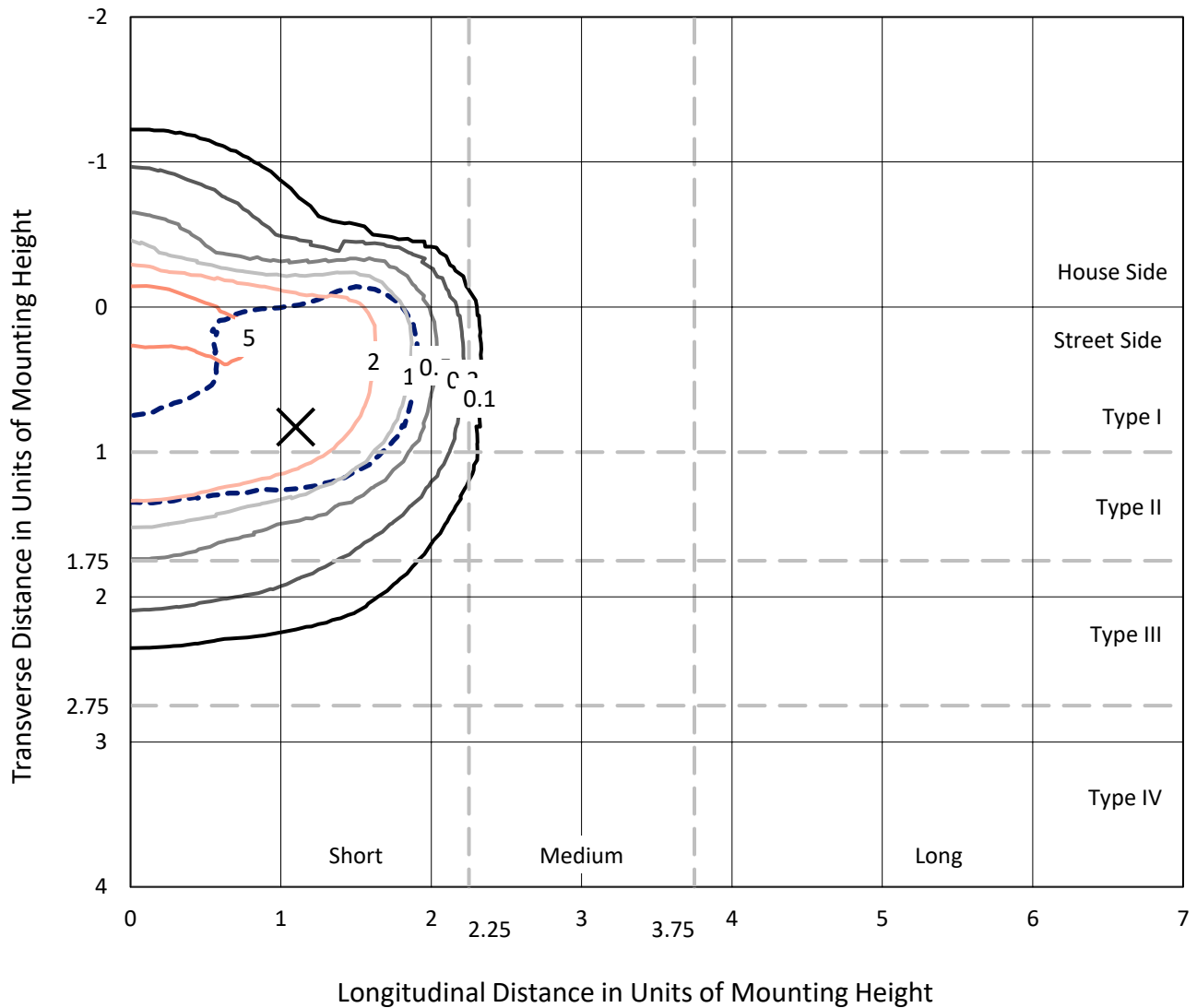
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

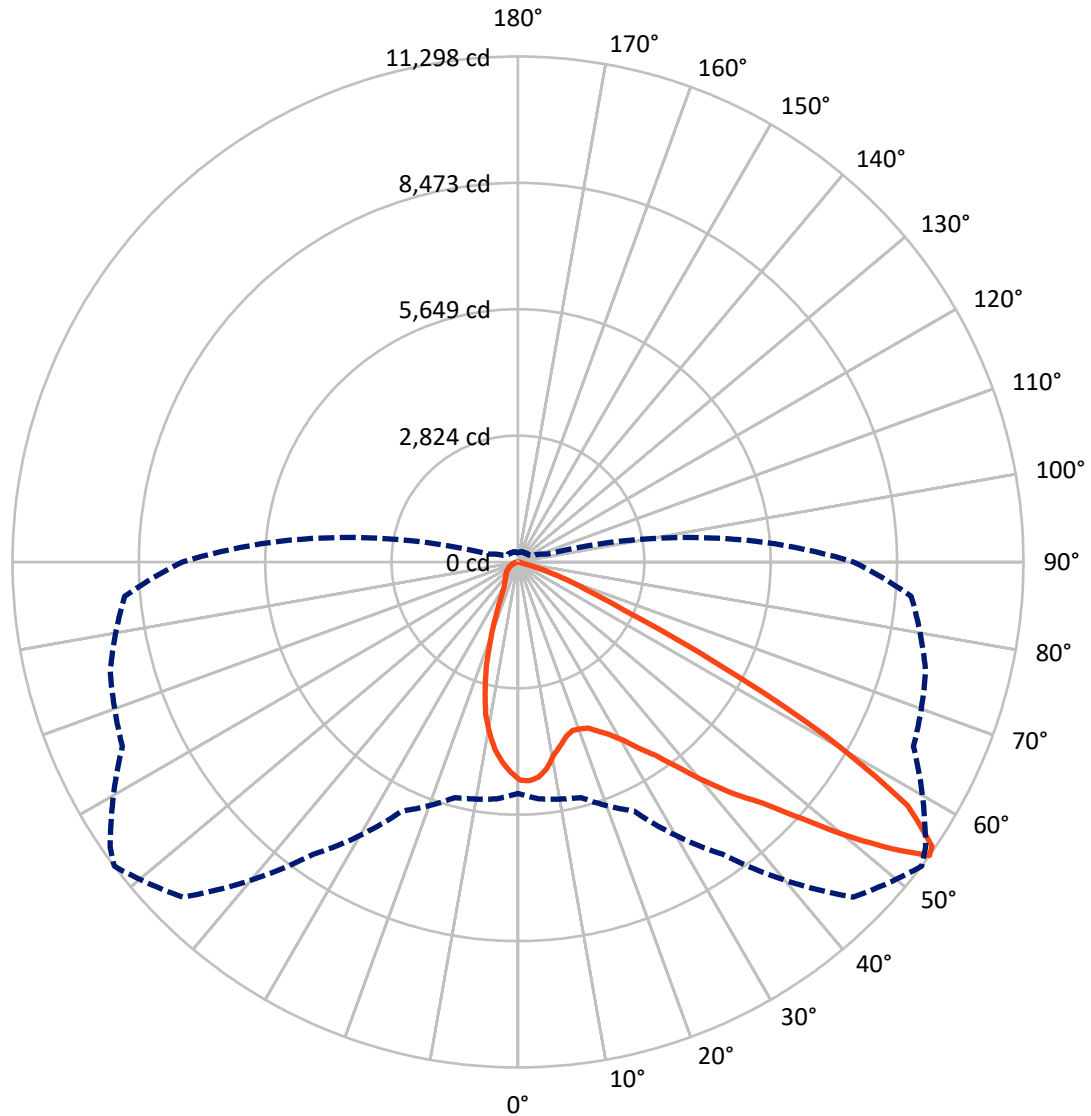
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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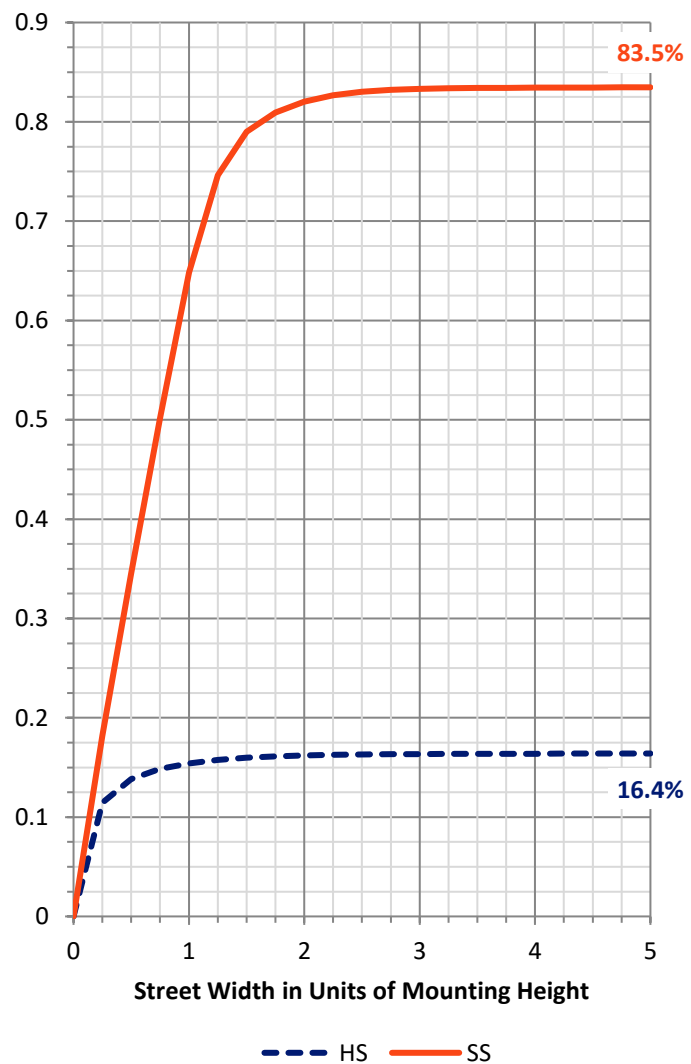
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2246.2	0.0	2246.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11329.8	0.0	11329.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13576.0	0.0	13576.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.4	3.1
10°-20°	959.2	7.1
20°-30°	1363.2	10.0
30°-40°	2103.8	15.5
40°-50°	3298.6	24.3
50°-60°	3831.8	28.2
60°-70°	1447.9	10.7
70°-80°	137.7	1.0
80°-90°	15.5	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°	13576.0	100.0
0°-180°	13576.0	100.0

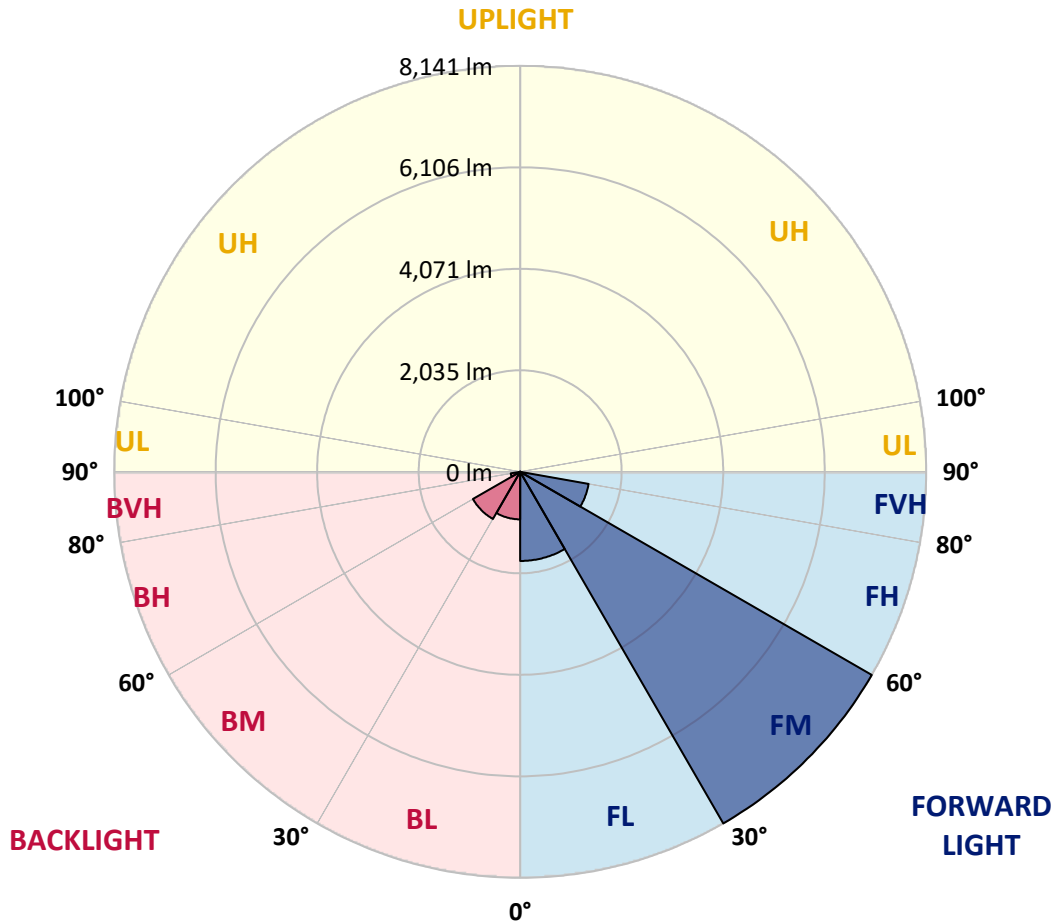


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.6	13.2			
FM (30°-60°)	8141.1	60.0			
FH (60°-80°)	1393.1	10.3			G1/1800
FVH (80°-90°)	8.0	0.1			G0/10
BL (0°-30°)	953.2	7.0	B2/1000		
BM (30°-60°)	1093.1	8.1	B2/2500		
BH (60°-80°)	192.5	1.4	B1/500		G1/500
BVH (80°-90°)	7.5	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°	53°	55°	65°	75°	85°
0°	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3
2.5°	4851.0	4808.0	4851.0	4856.0	4886.4	4914.2	4896.5	4937.0	4914.2	4888.9	4881.3
5°	4459.0	4517.1	4519.7	4610.7	4590.5	4757.4	4830.7	4810.5	4934.4	4926.9	4909.1
7.5°	4107.4	4084.6	4115.0	4221.2	4355.3	4547.5	4653.7	4651.2	4828.2	4954.7	4942.0
10°	3781.1	3778.6	3841.8	3925.3	4039.1	4241.4	4388.1	4461.5	4737.2	4929.4	4957.2
12.5°	3561.1	3551.0	3619.3	3687.6	3867.1	4023.9	4211.1	4246.5	4562.7	4840.9	4886.4
15°	3416.9	3439.7	3444.8	3576.3	3690.1	3897.5	4044.2	4117.5	4481.7	4770.0	4944.6
17.5°	3391.6	3422.0	3424.5	3533.3	3654.7	3829.2	3958.2	4056.8	4413.4	4805.5	4947.1
20°	3442.2	3424.5	3439.7	3508.0	3626.9	3793.8	3980.9	4013.8	4390.7	4823.2	4974.9
22.5°	3586.4	3581.3	3543.4	3599.0	3682.5	3857.0	4034.1	4084.6	4456.4	4914.2	4997.7
25°	3745.7	3773.5	3738.1	3730.5	3788.7	3960.7	4195.9	4261.7	4676.5	5078.6	5068.5
27.5°	4044.2	4016.3	4016.3	3980.9	3965.8	4049.2	4370.4	4479.2	4921.8	5291.1	5149.4
30°	4330.0	4360.3	4337.6	4350.2	4249.0	4241.4	4618.3	4752.3	5356.8	5614.8	5321.4
32.5°	4782.7	4742.2	4780.2	4747.3	4613.2	4476.7	4954.7	5093.8	5882.9	5986.6	5579.4
35°	5159.5	5141.8	5303.7	5298.6	5081.1	4947.1	5311.3	5518.7	6249.6	6431.7	5882.9
37.5°	5695.7	5662.8	5847.5	5936.0	5741.3	5541.4	5822.2	6062.5	6591.1	6788.3	6194.0
40°	6247.1	6330.6	6578.4	6725.1	6517.7	6252.1	6446.9	6520.2	6818.7	7021.0	6406.4
42.5°	6945.1	7066.5	7319.5	7445.9	7428.2	7139.9	7081.7	7079.2	6983.1	6955.3	6563.2
45°	7615.4	7569.9	7959.3	8235.0	8457.6	8374.1	7693.8	7617.9	7243.6	7053.9	6603.7
47.5°	7908.8	7893.6	8159.2	8649.8	9408.6	9512.3	8584.1	8290.7	7683.7	7468.7	6823.7
50°	7529.4	7607.8	7870.8	8414.6	9578.0	10369.7	9676.7	9282.1	8197.1	7974.5	7344.8
52.5°	6290.1	6343.2	6593.6	7284.1	9001.4	10875.5	10723.7	10496.1	9140.5	8771.2	8252.7
54°	5172.2	5313.8	5450.4	6143.4	7974.5	10594.8	11297.9	11123.4	9755.1	9433.9	8824.3
55°	4504.5	4587.9	4686.6	5377.0	7263.8	10119.3	11232.1	11247.3	10167.3	9641.3	9208.8
57.5°	3290.5	3348.6	3247.5	3553.5	4987.6	8217.3	10273.6	10683.3	10723.7	9952.3	9444.0
60°	2514.0	2539.3	2425.5	2473.5	3100.8	5640.1	7946.7	8439.9	9674.1	8697.9	7999.8
62.5°	1950.0	1955.1	1952.5	2036.0	2137.2	3318.3	4969.9	5407.4	6669.5	6176.3	5432.7
65°	1436.6	1413.8	1454.3	1707.2	1823.5	2086.6	2617.7	2936.4	3624.3	3060.3	2187.7
67.5°	930.7	938.3	978.8	1269.7	1563.0	1601.0	1611.1	1585.8	1588.3	875.1	548.8
70°	559.0	571.6	559.0	718.3	1117.9	1148.3	1049.6	1024.3	799.2	207.4	204.9
72.5°	331.3	313.6	280.7	308.6	465.4	556.4	500.8	498.2	313.6	121.4	121.4
75°	139.1	126.5	103.7	93.6	123.9	118.9	118.9	106.2	83.5	80.9	75.9
77.5°	27.8	27.8	20.2	22.8	30.4	35.4	43.0	43.0	50.6	50.6	48.1
80°	0.0	2.5	7.6	15.2	22.8	32.9	37.9	37.9	43.0	43.0	35.4
82.5°	0.0	2.5	7.6	15.2	20.2	30.4	37.9	37.9	43.0	45.5	37.9
85°	0.0	2.5	7.6	12.6	20.2	25.3	25.3	22.8	17.7	15.2	10.1
87.5°	0.0	0.0	2.5	5.1	2.5	5.1	5.1	5.1	5.1	5.1	5.1
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°	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3	4876.3
2.5°	4899.0	4896.5	4835.8	4737.2	4714.4	4630.9	4620.8	4570.2	4598.1	4504.5	4494.4
5°	4858.6	4828.2	4754.9	4691.6	4507.0	4375.5	4271.8	4145.3	4072.0	4084.6	4036.6
7.5°	4916.7	4838.3	4709.3	4489.3	4264.2	4034.1	3910.1	3652.1	3558.6	3419.5	3399.2
10°	4856.0	4797.9	4598.1	4233.9	3922.8	3591.4	3300.6	3014.8	2797.3	2703.7	2683.5
12.5°	4851.0	4749.8	4416.0	4011.3	3561.1	3085.6	2663.2	2306.6	2091.6	1970.2	1942.4
15°	4772.6	4651.2	4211.1	3667.3	3045.1	2453.3	1993.0	1649.0	1484.6	1413.8	1434.0
17.5°	4780.2	4598.1	4006.2	3303.1	2536.8	1800.8	1360.7	1183.7	1140.7	1158.4	1158.4
20°	4772.6	4479.2	3758.4	2883.3	1942.4	1249.4	999.0	935.8	963.6	1019.3	1006.6
22.5°	4732.1	4423.5	3530.7	2440.7	1429.0	925.7	801.8	804.3	847.3	915.6	930.7
25°	4762.5	4299.6	3242.4	1993.0	1042.0	738.5	695.5	713.2	758.8	809.3	819.5
27.5°	4739.7	4211.1	2941.4	1547.9	761.3	634.8	632.3	652.5	672.8	710.7	710.7
30°	4765.0	4130.2	2645.5	1150.8	627.2	581.7	571.6	586.8	607.0	614.6	612.1
32.5°	4858.6	4069.5	2304.1	859.9	553.9	531.1	531.1	531.1	528.6	538.7	541.2
35°	5063.4	4079.6	2003.1	665.2	505.8	488.1	480.5	470.4	465.4	470.4	473.0
37.5°	5286.0	4074.5	1692.0	566.5	470.4	455.3	437.5	422.4	419.8	424.9	417.3
40°	5384.6	4122.6	1403.7	508.4	437.5	419.8	392.0	379.4	381.9	387.0	381.9
42.5°	5518.7	4137.7	1216.5	462.8	407.2	379.4	361.7	346.5	344.0	351.6	349.0
45°	5516.2	4051.8	1019.3	437.5	379.4	349.0	326.3	313.6	313.6	318.7	321.2
47.5°	5678.0	4039.1	875.1	414.8	359.1	328.8	301.0	290.9	288.3	288.3	283.3
50°	6054.9	4216.2	763.8	389.5	333.9	306.0	283.3	270.6	260.5	255.4	252.9
52.5°	6790.9	4767.5	677.8	359.1	306.0	283.3	263.0	252.9	240.3	227.6	225.1
54°	7504.1	5336.6	672.8	333.9	283.3	268.1	250.4	245.3	230.2	212.5	207.4
55°	7825.3	5667.9	690.5	313.6	268.1	258.0	242.8	237.7	222.6	202.3	199.8
57.5°	8090.9	5796.9	680.4	260.5	242.8	240.3	227.6	220.0	202.3	174.5	169.5
60°	6512.7	4383.1	488.1	230.2	222.6	217.5	207.4	202.3	179.6	149.2	146.7
62.5°	4115.0	2521.6	311.1	202.3	194.7	187.2	174.5	169.5	149.2	118.9	111.3
65°	1752.7	1044.6	209.9	179.6	166.9	154.3	144.2	136.6	118.9	88.5	86.0
67.5°	455.3	371.8	174.5	156.8	139.1	121.4	113.8	101.2	80.9	60.7	58.2
70°	204.9	187.2	146.7	131.5	111.3	93.6	83.5	70.8	53.1	40.5	37.9
72.5°	121.4	118.9	111.3	98.6	83.5	70.8	60.7	48.1	35.4	22.8	22.8
75°	75.9	73.3	75.9	68.3	58.2	53.1	45.5	32.9	20.2	10.1	10.1
77.5°	45.5	45.5	45.5	43.0	40.5	40.5	32.9	20.2	10.1	2.5	2.5
80°	35.4	35.4	37.9	35.4	35.4	35.4	27.8	15.2	5.1	0.0	0.0
82.5°	35.4	37.9	43.0	40.5	35.4	30.4	25.3	15.2	5.1	0.0	0.0
85°	10.1	7.6	12.6	17.7	25.3	22.8	17.7	12.6	5.1	0.0	0.0
87.5°	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5	2.5	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)