

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: P455769

Luminaire Tested: **GALN-SA7A-727-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-727-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26075 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

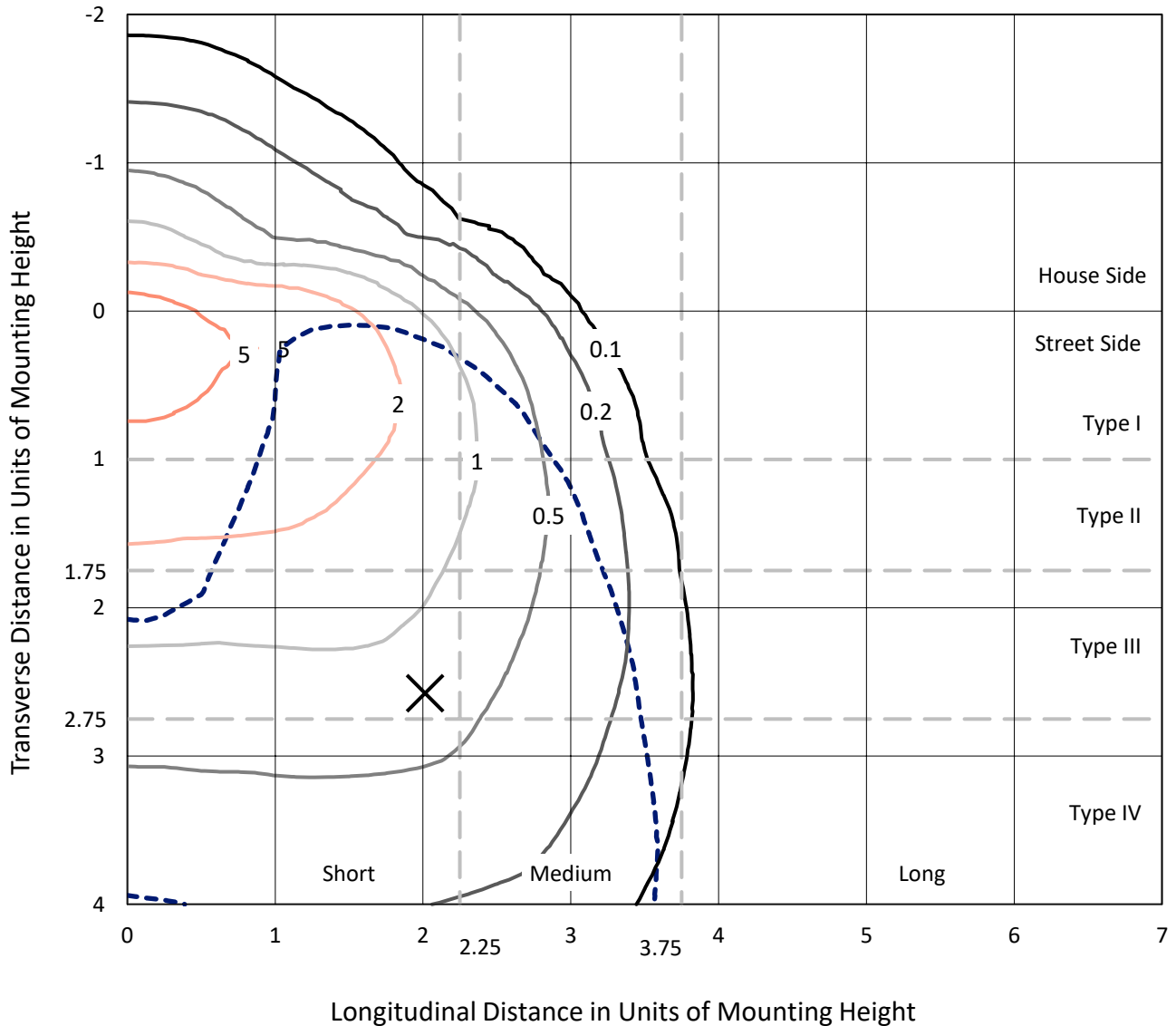
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

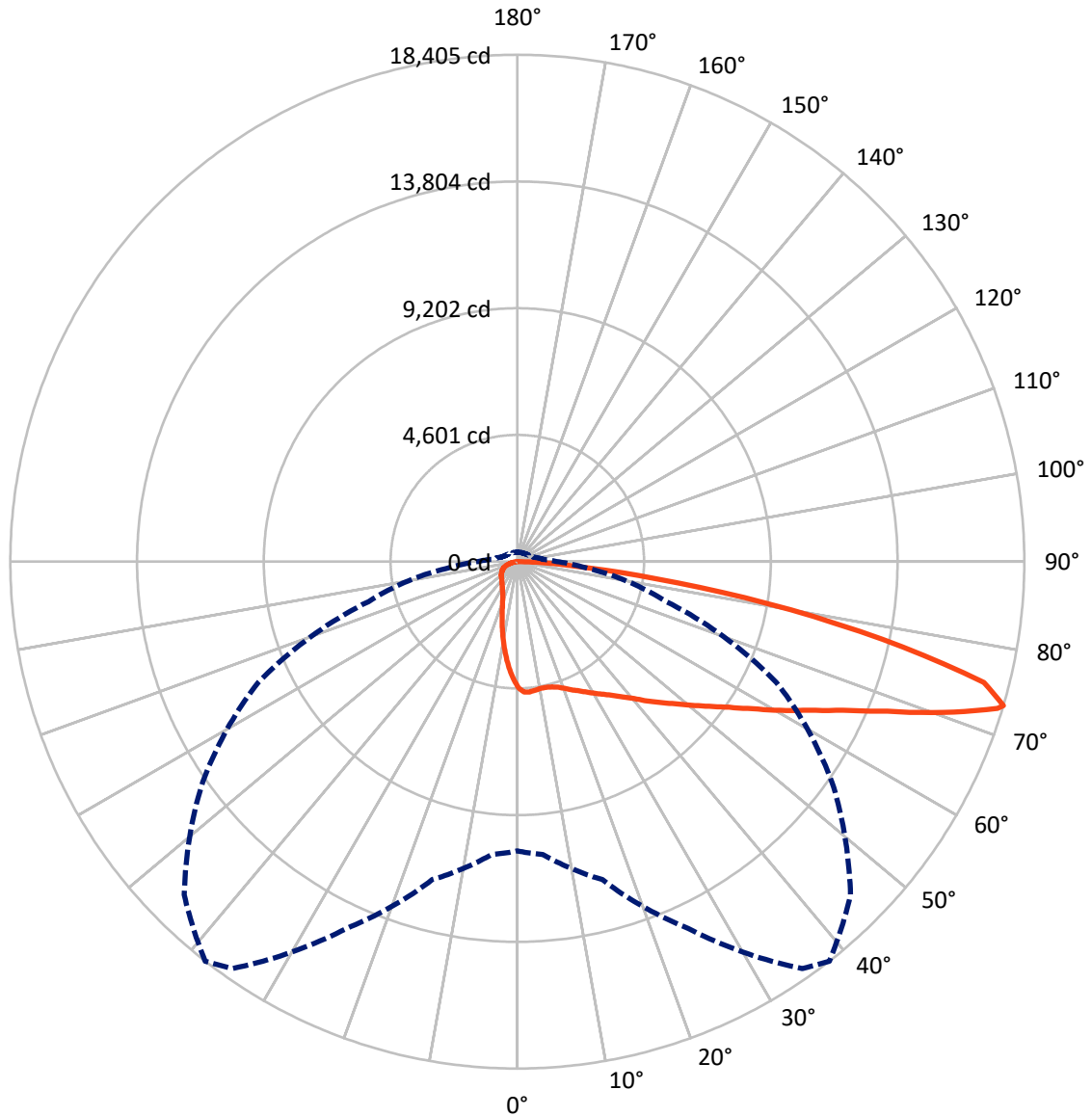
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3505.3	0.0	3505.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	22569.7	0.0	22569.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	26075.0	0.0	26075.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.9	1.5
10°-20°	1025.4	3.9
20°-30°	1596.7	6.1
30°-40°	2342.0	9.0
40°-50°	3474.1	13.3
50°-60°	4922.2	18.9
60°-70°	6243.9	23.9
70°-80°	5197.6	19.9
80°-90°	873.3	3.3
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°	26075.0	100.0
0°-180°	26075.0	100.0

**Coefficient of Utilization**



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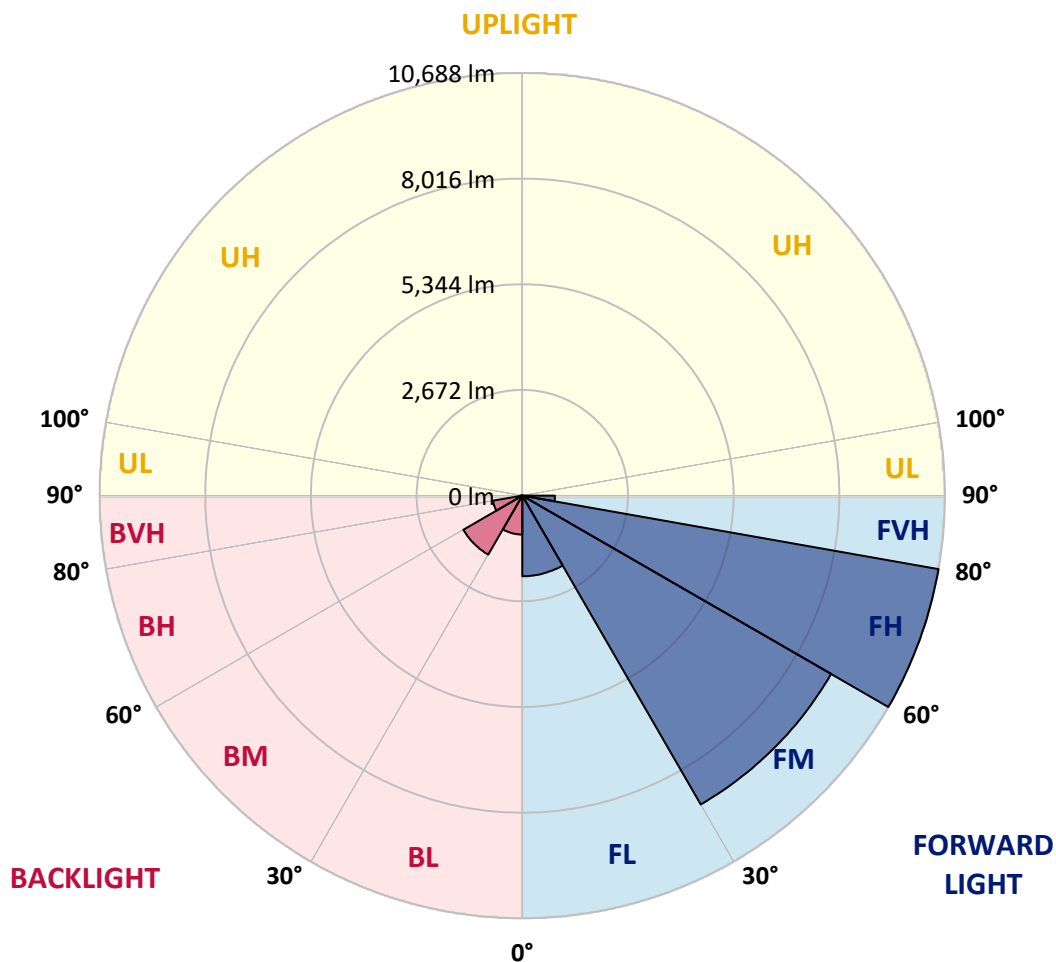
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2038.4	7.8			
FM (30°-60°)	9017.4	34.6			
FH (60°-80°)	10688.0	41.0			G4/12000
FVH (80°-90°)	825.9	3.2			G5
BL (0°-30°)	983.6	3.8	B2/1000		
BM (30°-60°)	1720.9	6.6	B2/2500		
BH (60°-80°)	753.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	47.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9
2.5°	4765.0	4788.6	4776.8	4760.6	4750.3	4740.0	4725.2	4682.5	4648.7	4611.9	4554.4
5°	4800.3	4815.1	4804.8	4784.1	4760.6	4750.3	4722.3	4666.3	4611.9	4550.0	4464.6
7.5°	4779.7	4785.6	4773.8	4748.8	4728.2	4709.0	4676.6	4614.8	4548.5	4473.4	4361.5
10°	4706.1	4728.2	4728.2	4707.6	4687.0	4676.6	4644.3	4585.4	4525.0	4439.6	4307.1
12.5°	4645.7	4669.3	4688.4	4682.5	4681.1	4681.1	4656.0	4611.9	4541.2	4460.2	4302.6
15°	4604.5	4632.5	4673.7	4697.3	4712.0	4716.4	4706.1	4667.8	4595.7	4501.4	4320.3
17.5°	4595.7	4629.5	4704.6	4756.2	4794.4	4793.0	4790.0	4737.0	4657.5	4560.3	4342.4
20°	4635.4	4679.6	4784.1	4865.1	4921.1	4910.8	4894.6	4825.4	4732.6	4623.6	4363.0
22.5°	4754.7	4800.3	4915.2	5003.5	5058.0	5058.0	5009.4	4918.1	4819.5	4697.3	4391.0
25°	4925.5	4975.6	5097.8	5187.6	5212.6	5193.5	5144.9	5034.5	4921.1	4803.3	4449.9
27.5°	5134.6	5195.0	5308.3	5383.4	5376.1	5361.4	5311.3	5169.9	5056.6	4949.1	4550.0
30°	5395.2	5439.4	5557.2	5574.9	5548.4	5545.4	5474.7	5333.4	5227.4	5144.9	4692.8
32.5°	5641.1	5680.9	5775.1	5782.5	5735.4	5741.3	5675.0	5545.4	5485.0	5455.6	4932.9
35°	5901.8	5922.4	6003.4	5994.5	5963.6	5959.2	5932.7	5809.0	5828.1	5881.1	5273.0
37.5°	6119.7	6160.9	6206.6	6213.9	6212.5	6227.2	6244.9	6186.0	6296.4	6462.8	5719.2
40°	6320.0	6355.3	6423.0	6446.6	6504.0	6533.5	6593.8	6595.3	6850.1	7123.9	6268.4
42.5°	6455.4	6515.8	6642.4	6685.1	6825.0	6913.4	7003.2	7098.9	7468.5	7820.4	6916.3
45°	6573.2	6652.7	6863.3	6995.8	7185.8	7293.3	7483.2	7683.5	8215.1	8675.9	7574.5
47.5°	6751.4	6822.1	7063.6	7297.7	7584.8	7708.5	7992.7	8291.6	8986.6	9491.7	8204.7
50°	6998.8	7041.5	7287.4	7668.8	8035.4	8194.4	8569.9	9001.4	9811.2	10297.2	8758.4
52.5°	7315.4	7333.0	7528.9	8036.9	8519.9	8717.2	9214.9	9718.5	10532.8	10996.6	9197.2
55°	7689.4	7659.9	7813.1	8427.1	9073.5	9331.2	9865.7	10444.4	11344.1	11562.0	9516.7
57.5°	8059.0	8013.3	8135.5	8901.2	9756.8	10067.5	10690.3	11192.4	12068.6	12090.7	9740.6
60°	8450.7	8416.8	8562.6	9457.8	10594.6	10962.7	11538.5	11968.4	12769.5	12458.8	9775.9
62.5°	8852.6	8798.2	9005.8	10083.7	11538.5	11872.7	12430.8	12793.0	13457.1	12595.7	9435.8
65°	9242.9	9217.8	9538.8	10827.3	12613.4	12993.3	13535.2	13781.1	14007.9	12389.6	8592.0
67.5°	9658.1	9708.2	10220.6	11819.7	14015.2	14492.3	15076.9	14845.7	14165.4	11413.3	7235.8
70°	10291.3	10323.7	11115.9	13119.9	15822.0	16397.7	16680.4	15224.1	13405.6	9559.4	5439.4
72.5°	10563.7	10706.5	11915.4	14484.9	17874.6	18226.6	17219.4	14380.4	11167.4	6493.7	2858.1
73°	10503.3	10674.1	11952.3	14692.6	18035.1	18404.7	17104.5	13946.0	10381.1	5592.5	2450.2
75°	9750.9	9961.4	11473.7	14518.8	17723.0	17502.1	15258.0	11886.0	7015.0	2543.0	1116.2
77.5°	7693.8	7754.2	9091.2	11724.0	13956.3	13547.0	11419.2	7428.7	2865.5	945.3	633.2
80°	3859.4	4081.8	5124.3	6716.1	9332.7	9198.7	7207.9	3513.4	1194.2	555.1	419.7
82.5°	1856.8	2014.4	2495.9	3274.8	5156.7	5034.5	3569.3	1920.1	758.3	323.9	247.4
85°	1195.7	1313.5	1588.8	1562.3	2120.4	2024.7	1603.5	1453.4	449.1	169.3	172.3
87.5°	789.3	864.4	1036.6	829.0	771.6	698.0	708.3	818.7	88.3	64.8	23.6
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9	4580.9
2.5°	4530.9	4511.7	4448.4	4386.6	4327.7	4271.7	4234.9	4186.3	4153.9	4162.7	4176.0
5°	4417.5	4374.8	4262.9	4153.9	4050.8	3928.6	3830.0	3750.4	3690.1	3668.0	3663.6
7.5°	4298.2	4226.1	4065.6	3878.6	3703.3	3551.7	3376.4	3289.6	3188.0	3152.6	3140.8
10°	4226.1	4128.9	3903.6	3643.0	3379.4	3127.6	2937.6	2783.0	2643.1	2616.6	2603.4
12.5°	4205.4	4077.3	3774.0	3438.3	3087.8	2778.6	2497.4	2294.1	2158.7	2127.8	2082.1
15°	4193.7	4034.6	3653.3	3232.1	2787.4	2410.5	2114.5	1877.4	1753.7	1671.3	1672.8
17.5°	4183.4	3986.0	3517.8	3006.8	2528.3	2093.9	1767.0	1553.5	1440.1	1395.9	1391.5
20°	4168.6	3928.6	3361.7	2769.8	2232.3	1805.3	1509.3	1350.3	1273.7	1236.9	1235.4
22.5°	4162.7	3872.7	3208.6	2528.3	1970.2	1582.9	1338.5	1226.6	1178.0	1153.0	1153.0
25°	4177.5	3832.9	3048.1	2298.6	1737.5	1393.0	1220.7	1144.1	1116.2	1102.9	1098.5
27.5°	4223.1	3815.2	2889.0	2068.9	1524.0	1263.4	1141.2	1088.2	1067.6	1057.3	1058.7
30°	4310.0	3813.8	2733.0	1842.1	1365.0	1164.7	1077.9	1041.1	1024.9	1019.0	1017.5
32.5°	4449.9	3846.2	2579.8	1655.1	1231.0	1082.3	1019.0	992.5	985.1	980.7	979.2
35°	4687.0	3937.5	2428.1	1484.3	1127.9	1008.7	963.0	949.8	939.5	943.9	945.3
37.5°	5006.5	4095.0	2283.8	1350.3	1049.9	954.2	915.9	904.1	898.2	902.6	907.1
40°	5435.0	4321.8	2163.1	1242.8	993.9	908.5	874.7	864.4	858.5	865.8	867.3
42.5°	5907.7	4583.9	2063.0	1158.9	948.3	870.2	837.9	826.1	821.7	826.1	827.5
45°	6393.6	4888.7	2011.4	1098.5	910.0	842.3	808.4	795.1	784.8	781.9	786.3
47.5°	6872.1	5153.7	2010.0	1061.7	879.1	817.2	780.4	765.7	752.4	745.1	743.6
50°	7262.4	5364.3	2045.3	1045.5	852.6	789.3	752.4	737.7	720.1	705.3	708.3
52.5°	7556.9	5501.2	2061.5	1038.1	837.9	759.8	723.0	709.7	689.1	670.0	670.0
55°	7746.8	5533.6	2021.7	1030.7	826.1	728.9	689.1	677.3	656.7	637.6	637.6
57.5°	7811.6	5433.5	1878.9	1013.1	814.3	702.4	655.3	645.0	628.8	609.6	606.7
60°	7661.4	5094.8	1628.6	960.1	790.7	674.4	618.4	614.0	608.1	591.9	590.5
62.5°	7082.7	4376.3	1356.2	890.9	751.0	645.0	584.6	591.9	596.4	587.5	586.1
65°	6119.7	3553.1	1158.9	795.1	698.0	603.7	547.8	566.9	578.7	578.7	575.7
67.5°	4963.8	2728.5	976.3	712.7	631.7	547.8	506.5	521.3	530.1	527.2	534.5
70°	3528.1	1848.0	795.1	618.4	547.8	484.5	453.5	453.5	447.6	444.7	444.7
72.5°	1711.0	1055.8	645.0	516.8	466.8	413.8	388.7	378.4	366.7	365.2	357.8
73°	1429.8	946.8	615.5	497.7	447.6	403.5	375.5	359.3	351.9	346.0	344.6
75°	870.2	718.6	513.9	419.7	381.4	347.5	322.5	307.8	300.4	296.0	294.5
77.5°	572.8	536.0	399.0	321.0	291.6	270.9	260.6	245.9	241.5	235.6	235.6
80°	427.0	409.4	285.7	226.8	209.1	191.4	188.5	185.5	173.8	166.4	163.4
82.5°	275.4	291.6	194.4	151.7	132.5	117.8	119.3	123.7	111.9	101.6	98.7
85°	195.8	210.6	117.8	69.2	56.0	48.6	54.5	48.6	50.1	39.8	32.4
87.5°	32.4	56.0	20.6	8.8	4.4	2.9	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)