

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: P453967

Luminaire Tested: **GALN-SA5A-740-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22860 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

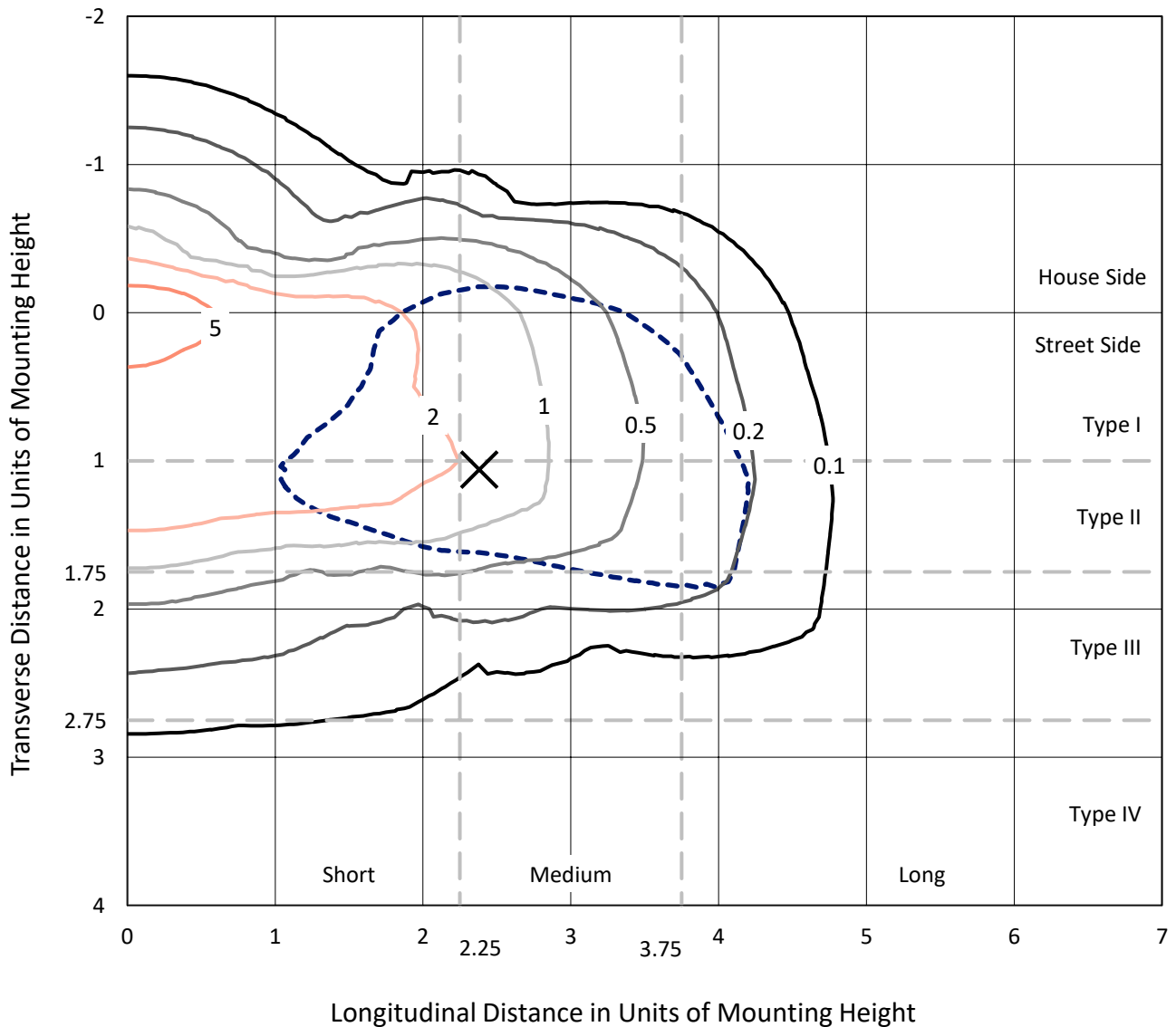
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

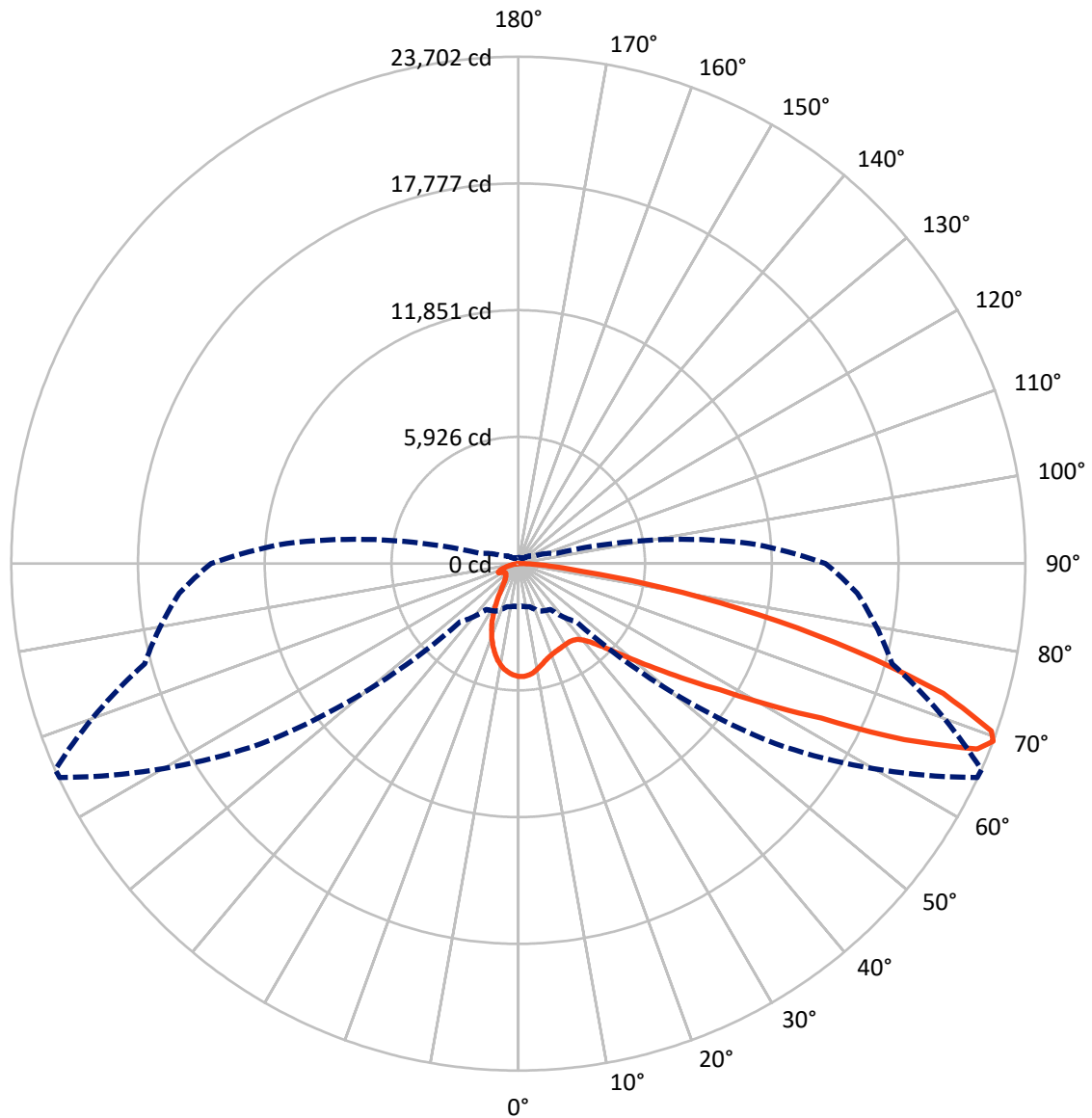
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4299.1	0.0	4299.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	18560.9	0.0	18560.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	22860.0	0.0	22860.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.4	2.0
10°-20°	1087.3	4.8
20°-30°	1480.3	6.5
30°-40°	1989.2	8.7
40°-50°	2970.2	13.0
50°-60°	4724.5	20.7
60°-70°	5810.9	25.4
70°-80°	3780.8	16.5
80°-90°	558.3	2.4
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°	22860.0	100.0
0°-180°	22860.0	100.0

**Coefficient of Utilization**



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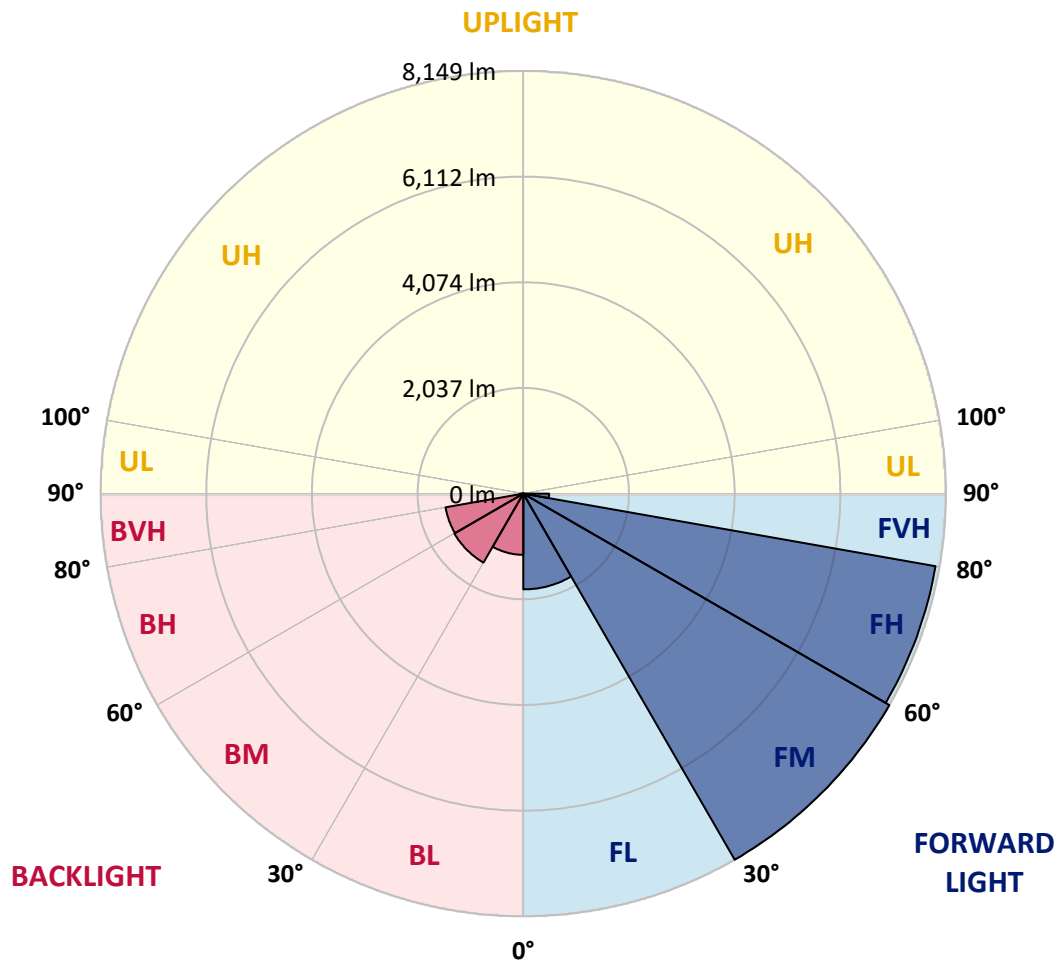
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1845.9	8.1			
FM	(30°-60°)	8148.9	35.6			
FH	(60°-80°)	8069.7	35.3			G4/12000
FVH	(80°-90°)	496.4	2.2			G3/500
BL	(0°-30°)	1180.1	5.2	B3/2500		
BM	(30°-60°)	1535.0	6.7	B2/2500		
BH	(60°-80°)	1522.1	6.7	B3/2500		G3/2500
BVH	(80°-90°)	61.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0
2.5°	5094.2	5114.4	5137.2	5162.5	5210.6	5237.2	5256.2	5277.7	5280.3	5291.7	5282.8
5°	4718.2	4742.2	4776.4	4824.5	4896.7	5009.4	5125.8	5220.8	5232.2	5285.3	5300.5
7.5°	4404.2	4418.2	4446.0	4523.2	4625.8	4751.1	4920.7	5113.2	5141.0	5267.6	5311.9
10°	4148.5	4162.4	4195.4	4275.1	4376.4	4533.4	4719.5	4972.6	4995.4	5213.2	5314.5
12.5°	3957.4	3970.0	4005.5	4084.0	4200.4	4347.3	4552.4	4820.7	4853.7	5141.0	5290.4
15°	3811.8	3835.8	3864.9	3929.5	4052.3	4194.1	4392.8	4681.5	4708.1	5065.1	5273.9
17.5°	3749.7	3761.1	3781.4	3840.9	3930.8	4070.0	4270.0	4572.6	4604.3	5011.9	5270.1
20°	3752.3	3763.7	3767.5	3800.4	3864.9	3985.2	4182.7	4486.5	4524.5	4965.1	5276.5
22.5°	3838.4	3839.6	3825.7	3814.3	3839.6	3939.6	4120.7	4422.0	4466.3	4944.8	5281.5
25°	3971.3	3994.1	3973.8	3920.6	3873.8	3921.9	4096.6	4386.5	4428.3	4915.7	5275.2
27.5°	4186.5	4190.3	4173.8	4101.7	3980.1	3944.7	4086.5	4359.9	4395.4	4894.2	5243.6
30°	4475.1	4463.7	4448.5	4368.8	4177.6	4032.0	4108.0	4335.9	4372.6	4862.5	5205.6
32.5°	4767.6	4803.0	4789.1	4695.4	4447.3	4201.7	4177.6	4333.3	4363.7	4838.5	5163.8
35°	5077.7	5094.2	5160.0	5111.9	4857.4	4476.4	4308.0	4372.6	4396.6	4839.7	5134.7
37.5°	5320.8	5365.1	5519.5	5561.3	5322.1	4839.7	4519.4	4484.0	4494.1	4901.8	5146.1
40°	5614.5	5690.4	5889.2	6060.1	5903.1	5311.9	4879.0	4690.3	4703.0	5051.1	5220.8
42.5°	5986.7	6039.8	6307.0	6538.6	6513.3	5936.0	5314.5	5028.4	5034.7	5348.6	5429.7
45°	6422.2	6498.1	6798.1	7146.3	7205.8	6642.4	5943.6	5539.8	5536.0	5810.7	5819.6
47.5°	6979.2	7026.0	7323.5	7703.3	7943.8	7529.9	6707.0	6274.0	6233.5	6484.2	6412.0
50°	7491.9	7565.3	7790.7	8205.9	8804.7	8569.2	7710.9	7226.0	7131.1	7365.3	7243.8
52.5°	7707.1	7784.3	7974.2	8489.5	9542.7	9913.7	8985.7	8361.6	8203.4	8383.1	8338.8
55°	7333.6	7433.7	7610.9	8237.5	9866.8	11464.4	10704.9	9674.4	9559.2	9482.0	9494.6
57.5°	6329.7	6424.7	6664.0	7355.2	9479.4	12589.9	13159.5	11361.9	11115.0	10759.3	10820.1
60°	4818.2	4877.7	5001.8	5767.7	8331.2	12882.3	15947.2	13495.0	13338.0	12031.6	12074.6
62.5°	3421.9	3489.0	3575.0	3957.4	6099.3	12058.2	18129.7	16473.8	15913.0	13349.4	13307.7
65°	2778.8	2733.2	2837.0	3015.5	3578.8	9345.2	18620.9	20608.4	19836.2	15085.1	14505.2
67.5°	2285.0	2236.9	2339.5	2657.2	2721.8	5424.6	16851.1	23292.2	23137.8	16972.6	15721.8
69°	2023.0	1997.7	2087.6	2449.6	2612.9	3852.3	14679.9	23665.7	23702.4	18085.4	15909.2
70°	1823.0	1833.1	1920.4	2344.5	2563.5	3176.3	12546.8	23150.4	23461.8	18641.1	15706.6
72.5°	1341.9	1363.4	1485.0	1942.0	2516.7	2695.2	7466.6	20221.0	20771.7	18674.0	14368.5
75°	938.1	927.9	1035.5	1462.2	2377.5	2671.2	4385.2	15638.3	16262.4	16140.9	12073.4
77.5°	614.0	630.4	716.5	1033.0	2000.2	2650.9	2858.5	11094.8	11499.9	10794.8	7141.2
80°	433.0	431.7	479.8	705.1	1483.7	2547.1	2340.7	6993.1	6890.6	4242.2	2117.9
82.5°	248.1	265.8	321.6	496.3	992.5	2242.0	2153.4	3344.6	3053.5	1209.0	715.3
85°	138.0	144.3	191.2	300.0	579.8	1688.8	1879.9	1521.7	1435.6	505.1	307.6
87.5°	44.3	48.1	79.8	151.9	263.3	797.5	1064.7	702.6	648.2	182.3	124.1
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°	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0	5279.0
2.5°	5286.6	5301.8	5261.3	5222.0	5186.6	5137.2	5092.9	5056.2	5030.9	5027.1	5014.4
5°	5304.3	5305.6	5228.4	5124.6	5023.3	4911.9	4796.7	4714.4	4637.2	4594.1	4572.6
7.5°	5317.0	5305.6	5166.3	4998.0	4803.0	4600.5	4397.9	4235.9	4110.5	4061.2	4080.2
10°	5311.9	5276.5	5072.7	4803.0	4519.4	4216.9	3925.7	3697.8	3489.0	3381.4	3383.9
12.5°	5284.1	5225.8	4933.4	4584.0	4167.5	3762.4	3316.8	3009.2	2767.4	2624.3	2580.0
15°	5260.0	5158.7	4770.1	4286.5	3768.7	3190.2	2647.1	2267.3	2064.8	1952.1	1950.8
17.5°	5234.7	5094.2	4591.6	3971.3	3310.5	2566.1	1996.4	1706.5	1611.6	1622.9	1604.0
20°	5208.1	5018.2	4405.5	3620.6	2752.2	1914.1	1495.1	1377.4	1403.9	1455.8	1463.4
22.5°	5177.7	4937.2	4205.5	3234.5	2164.8	1440.7	1212.8	1195.1	1263.4	1344.4	1355.8
25°	5130.9	4835.9	3953.6	2830.7	1669.8	1160.9	1062.1	1074.8	1141.9	1210.2	1217.8
27.5°	5065.1	4710.6	3699.1	2326.8	1254.6	996.3	971.0	987.4	1020.4	1062.1	1072.3
30°	4976.4	4568.8	3406.7	1891.3	1005.2	914.0	903.9	912.7	931.7	949.5	954.5
32.5°	4887.8	4432.1	3111.7	1448.2	896.3	859.6	849.5	849.5	849.5	852.0	853.2
35°	4805.5	4303.0	2795.2	1128.0	839.3	816.5	802.6	787.4	784.9	776.0	776.0
37.5°	4760.0	4185.2	2458.5	944.4	797.5	781.1	762.1	736.8	722.9	724.1	721.6
40°	4768.8	4108.0	2152.1	840.6	763.4	745.6	716.5	687.4	678.5	678.5	676.0
42.5°	4868.8	4082.7	1858.4	786.2	730.5	710.2	673.5	646.9	641.8	640.6	643.1
45°	5099.2	4144.7	1595.1	750.7	702.6	672.2	635.5	611.5	606.4	606.4	605.1
47.5°	5548.7	4346.0	1406.5	727.9	682.3	643.1	605.1	581.1	572.2	569.7	569.7
50°	6247.5	4782.8	1265.9	707.7	657.0	616.5	577.3	549.4	535.5	534.2	533.0
52.5°	7218.4	5463.8	1211.5	692.5	629.2	588.7	545.6	519.0	501.3	497.5	495.0
55°	8354.0	6414.6	1286.2	681.1	600.1	557.0	512.7	484.9	468.4	460.8	459.5
57.5°	9669.3	7556.5	1569.8	665.9	573.5	522.8	479.8	451.9	434.2	425.4	422.8
60°	10850.5	8730.0	2064.8	657.0	550.7	486.1	441.8	416.5	400.0	391.2	389.9
62.5°	12148.1	9849.1	2656.0	681.1	540.6	450.7	406.4	383.6	369.7	360.8	360.8
65°	13534.3	10969.5	3047.1	762.1	555.8	422.8	368.4	349.4	336.7	330.4	329.1
67.5°	14468.5	11356.8	2510.4	845.7	593.7	392.4	331.7	316.5	308.9	302.6	302.6
69°	14367.3	10866.9	1852.1	867.2	605.1	377.3	311.4	300.0	289.9	287.4	284.8
70°	14047.0	10308.6	1552.1	853.2	596.3	363.3	298.8	284.8	276.0	273.4	272.2
72.5°	12511.4	8940.1	1155.8	741.8	507.6	315.2	264.6	251.9	244.3	240.5	240.5
75°	10394.7	7307.1	902.6	589.9	397.5	265.8	226.6	216.5	210.1	207.6	206.3
77.5°	5825.9	4080.2	648.2	462.1	301.3	215.2	189.9	181.0	174.7	172.2	172.2
80°	1622.9	1165.9	381.1	305.1	205.1	163.3	150.6	144.3	135.5	129.1	132.9
82.5°	611.5	505.1	217.7	183.6	130.4	108.9	105.1	100.0	96.2	87.4	87.4
85°	297.5	245.6	139.3	97.5	72.2	57.0	54.4	51.9	49.4	43.0	44.3
87.5°	102.5	108.9	60.8	35.4	21.5	13.9	11.4	6.3	6.3	6.3	6.3
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)