

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: P455377

Luminaire Tested: **GALN-SA6C-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455377  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30020 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

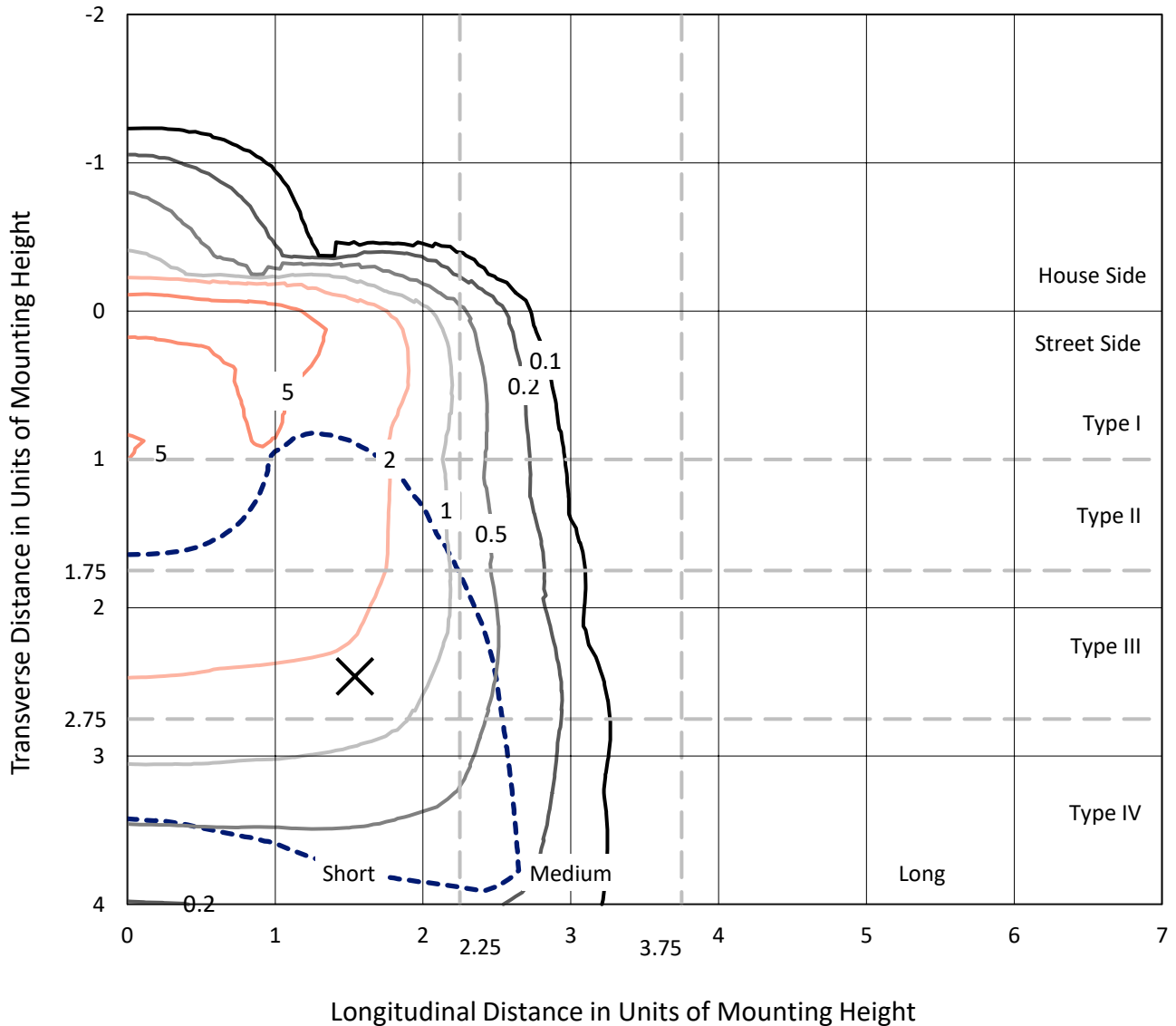
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

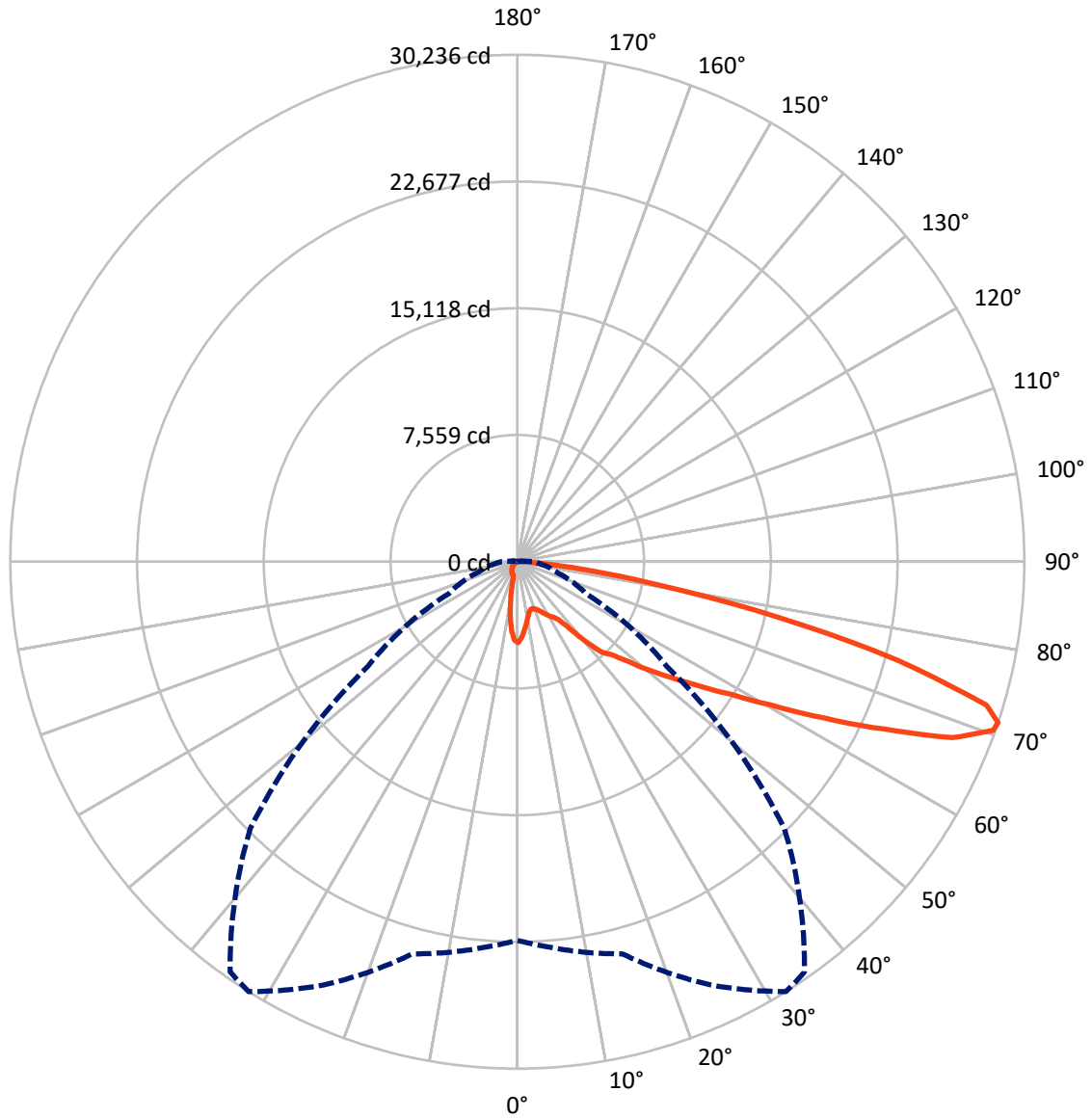
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2514.5	0.0	2514.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	27505.5	0.0	27505.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	30020.0	0.0	30020.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.6	1.3
10°-20°	852.0	2.8
20°-30°	1325.4	4.4
30°-40°	2208.1	7.4
40°-50°	4107.5	13.7
50°-60°	6594.7	22.0
60°-70°	8870.2	29.5
70°-80°	5262.8	17.5
80°-90°	406.8	1.4
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°	30020.0	100.0
0°-180°	30020.0	100.0

**Coefficient of Utilization**



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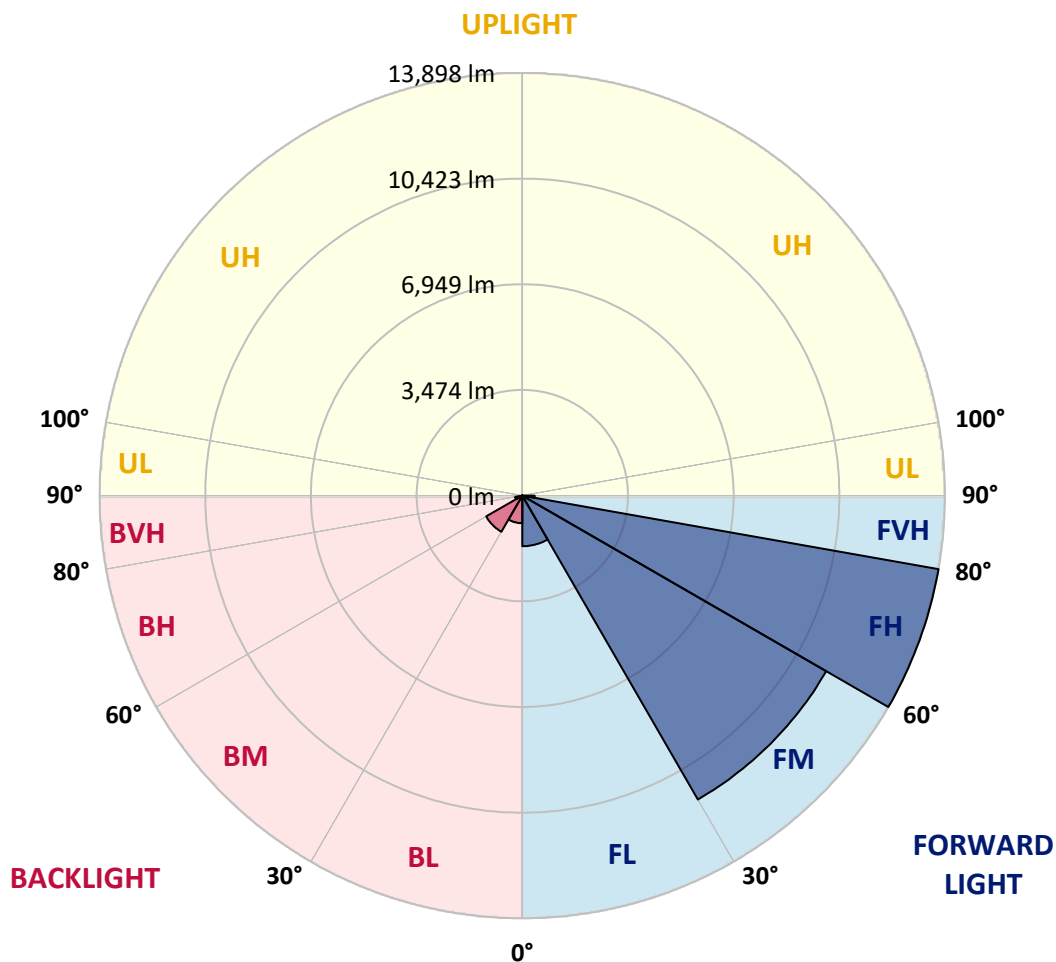
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1663.9	5.5			
FM	(30°-60°)	11538.6	38.4			
FH	(60°-80°)	13897.8	46.3			G5
FVH	(80°-90°)	405.2	1.3			G3/500
BL	(0°-30°)	906.0	3.0	B2/1000		
BM	(30°-60°)	1371.7	4.6	B2/2500		
BH	(60°-80°)	235.2	0.8	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7
2.5°	4477.4	4523.5	4516.6	4532.7	4571.9	4588.0	4631.8	4680.2	4747.0	4793.1	4823.1
5°	4009.6	4044.2	4048.8	4129.5	4168.6	4212.4	4341.5	4482.0	4638.7	4763.2	4846.1
7.5°	3509.6	3528.0	3564.9	3670.9	3770.0	3813.8	4009.6	4253.9	4500.5	4733.2	4883.0
10°	3097.1	3117.8	3184.7	3297.6	3389.7	3447.4	3719.3	4025.8	4371.4	4717.1	4936.0
12.5°	2862.0	2873.6	2898.9	3000.3	3117.8	3180.1	3472.7	3823.0	4267.7	4724.0	5025.9
15°	2845.9	2841.3	2811.3	2852.8	2958.8	3023.4	3309.1	3684.7	4175.5	4747.0	5131.9
17.5°	2931.2	2919.7	2848.2	2848.2	2935.8	2988.8	3240.0	3611.0	4129.5	4800.0	5281.6
20°	3062.5	3044.1	2926.6	2917.4	3002.6	3057.9	3281.4	3615.6	4138.7	4899.1	5482.1
22.5°	3228.4	3207.7	3030.3	3034.9	3127.0	3182.4	3401.3	3698.5	4196.3	5021.3	5696.4
25°	3445.1	3422.0	3212.3	3203.1	3299.9	3348.3	3578.7	3846.0	4276.9	5173.3	5977.6
27.5°	3733.1	3684.7	3433.5	3419.7	3523.4	3585.6	3793.0	4044.2	4419.8	5383.0	6355.5
30°	3970.5	3917.5	3677.8	3640.9	3751.5	3799.9	4014.2	4311.5	4700.9	5749.4	6878.6
32.5°	4281.5	4203.2	3922.1	3825.3	3942.8	4005.0	4334.5	4809.2	5118.0	6136.6	7500.8
35°	4982.1	4933.7	4590.3	4251.6	4244.7	4323.0	4806.9	5311.6	5546.7	6740.3	8348.8
37.5°	5984.5	5949.9	5585.8	5131.9	5000.5	4963.6	5380.7	5864.7	6231.1	7569.9	9335.1
40°	7148.2	7067.5	6733.4	6348.6	6178.1	6069.7	6058.2	6687.3	7125.2	8696.7	10362.8
42.5°	7982.4	7834.9	7429.3	7401.7	7364.8	7251.9	6924.7	7890.2	8279.7	9908.9	11462.0
45°	8858.1	8634.5	8030.8	7927.1	7913.3	7906.3	8233.6	9314.3	9537.8	11222.4	12591.2
47.5°	9537.8	9360.4	8865.0	8818.9	8876.5	9033.2	9964.2	10826.0	10779.9	12393.0	13538.3
50°	10443.5	10309.8	9759.1	9846.6	10143.9	10399.7	11916.0	12473.6	11800.8	13314.7	14227.3
52.5°	11512.7	11266.1	10754.6	10991.9	11448.2	11874.5	13987.6	13916.2	12517.4	14008.4	14741.1
55°	12439.1	12263.9	12088.8	12335.4	13017.5	13549.8	15858.8	14996.9	13038.2	14566.0	14967.0
57.5°	14006.0	13964.6	13784.8	14036.0	14863.3	15416.3	17534.1	15835.7	13372.3	14856.4	14702.0
60°	16324.3	16257.4	15923.3	16243.6	17322.1	18190.8	19078.0	16589.3	13448.4	14743.5	13939.2
62.5°	19112.6	18884.4	18598.7	19071.1	20550.5	20933.0	20532.1	17036.3	13164.9	13844.7	12100.3
65°	21716.5	21481.5	21488.4	22483.9	24094.6	24355.0	22228.1	16969.5	12335.4	11593.4	8924.9
67.5°	23709.8	23670.6	23951.8	25894.4	28000.6	27820.8	23744.4	15969.4	9876.6	7514.6	4742.4
70°	23811.2	23887.2	24693.8	27972.9	30111.4	29825.6	23615.3	12980.6	6157.3	3456.6	1868.9
71°	22585.3	23096.8	24212.2	27908.4	30235.8	29864.8	22527.7	10872.1	4516.6	2410.4	1348.1
72.5°	19246.2	19515.8	21926.2	26265.4	29251.9	28459.1	19769.3	7620.6	2892.0	1474.8	774.3
75°	10600.2	11263.8	14683.5	20605.8	23396.4	22700.5	12883.8	3620.2	1442.5	806.5	320.3
77.5°	5046.6	4917.6	7164.3	12254.7	15863.4	15826.5	6491.5	1608.5	841.1	546.1	161.3
80°	1442.5	1622.3	2742.2	5825.5	8807.4	8904.1	2493.3	776.6	583.0	426.3	83.0
82.5°	435.5	444.7	1007.0	2576.3	4380.6	4129.5	935.6	396.4	419.4	338.7	48.4
85°	76.0	94.5	297.3	907.9	1670.7	1267.4	235.0	189.0	276.5	223.5	27.7
87.5°	4.6	6.9	99.1	103.7	147.5	85.3	41.5	27.7	59.9	59.9	16.1
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°	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7	4827.7
2.5°	4843.8	4857.6	4848.4	4827.7	4793.1	4751.6	4696.3	4650.2	4611.1	4590.3	4615.7
5°	4873.8	4892.2	4846.1	4742.4	4585.7	4415.2	4221.6	4071.8	3954.3	3917.5	3903.6
7.5°	4919.9	4931.4	4806.9	4576.5	4244.7	3841.4	3488.8	3191.6	2961.1	2892.0	2790.6
10°	4979.8	4972.9	4737.8	4309.2	3726.2	3120.1	2574.0	2168.4	1861.9	1751.3	1742.1
12.5°	5071.9	5035.1	4650.2	3945.1	3108.6	2315.9	1640.7	1283.5	1090.0	1025.5	1011.6
15°	5187.2	5099.6	4512.0	3518.8	2380.4	1495.5	1011.6	903.3	878.0	873.4	868.8
17.5°	5323.1	5184.9	4329.9	2995.7	1673.0	970.1	845.7	843.4	845.7	841.1	838.8
20°	5507.5	5274.7	4113.3	2375.8	1106.1	818.1	806.5	806.5	808.8	806.5	806.5
22.5°	5703.4	5380.7	3846.0	1813.6	834.2	776.6	774.3	778.9	783.5	781.2	781.2
25°	5945.3	5519.0	3493.4	1242.1	746.6	742.0	744.3	753.5	762.8	765.1	762.8
27.5°	6295.6	5689.5	3115.5	854.9	684.4	689.0	712.1	735.1	748.9	751.2	751.2
30°	6689.6	5878.5	2622.4	693.6	633.7	633.7	661.4	705.1	735.1	739.7	742.0
32.5°	7196.6	6097.4	2076.3	624.5	585.3	580.7	606.1	659.1	714.4	730.5	730.5
35°	7823.4	6355.5	1543.9	580.7	550.7	539.2	553.1	596.8	668.3	714.4	719.0
37.5°	8558.5	6599.8	1129.1	541.5	518.5	502.4	511.6	546.1	603.7	672.9	691.3
40°	9238.3	6816.4	843.4	509.3	486.2	474.7	481.6	497.7	546.1	610.7	622.2
42.5°	9980.3	6984.6	670.6	474.7	454.0	449.4	449.4	456.3	488.5	525.4	527.7
45°	10720.0	7044.5	562.3	433.2	419.4	424.0	421.7	417.1	430.9	426.3	426.3
47.5°	11247.7	6973.1	465.5	394.0	394.0	401.0	389.4	373.3	366.4	338.7	341.0
50°	11609.5	6712.7	382.5	348.0	366.4	375.6	352.6	327.2	301.9	271.9	265.0
52.5°	11759.3	6249.5	313.4	288.0	324.9	336.4	308.8	278.8	239.7	214.3	207.4
55°	11662.5	5678.0	260.4	235.0	274.2	288.0	260.4	225.8	182.0	154.4	149.8
57.5°	11236.2	4995.9	221.2	186.7	218.9	228.1	209.7	172.8	129.0	101.4	101.4
60°	10498.8	4290.8	179.7	147.5	163.6	177.4	159.0	124.4	87.6	62.2	57.6
62.5°	9003.2	3484.2	145.2	115.2	115.2	126.7	110.6	89.9	55.3	32.3	30.0
65°	6500.7	2389.6	115.2	85.3	83.0	83.0	69.1	59.9	32.3	13.8	9.2
67.5°	3532.6	1348.1	92.2	64.5	57.6	55.3	43.8	34.6	13.8	2.3	0.0
70°	1389.5	518.5	71.4	43.8	36.9	34.6	23.0	16.1	9.2	0.0	0.0
71°	942.5	357.2	62.2	36.9	30.0	25.3	18.4	13.8	6.9	0.0	0.0
72.5°	539.2	221.2	48.4	27.7	23.0	18.4	13.8	9.2	6.9	0.0	0.0
75°	235.0	112.9	30.0	20.7	16.1	11.5	9.2	6.9	2.3	0.0	0.0
77.5°	119.8	62.2	20.7	16.1	9.2	6.9	4.6	2.3	0.0	0.0	0.0
80°	66.8	32.3	13.8	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0
82.5°	36.9	18.4	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.0	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	4.6	0.0	0.0	0.0	0.0	2.3	2.3	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)