

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: P531519

Luminaire Tested: **GALN-SA6D-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27394 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

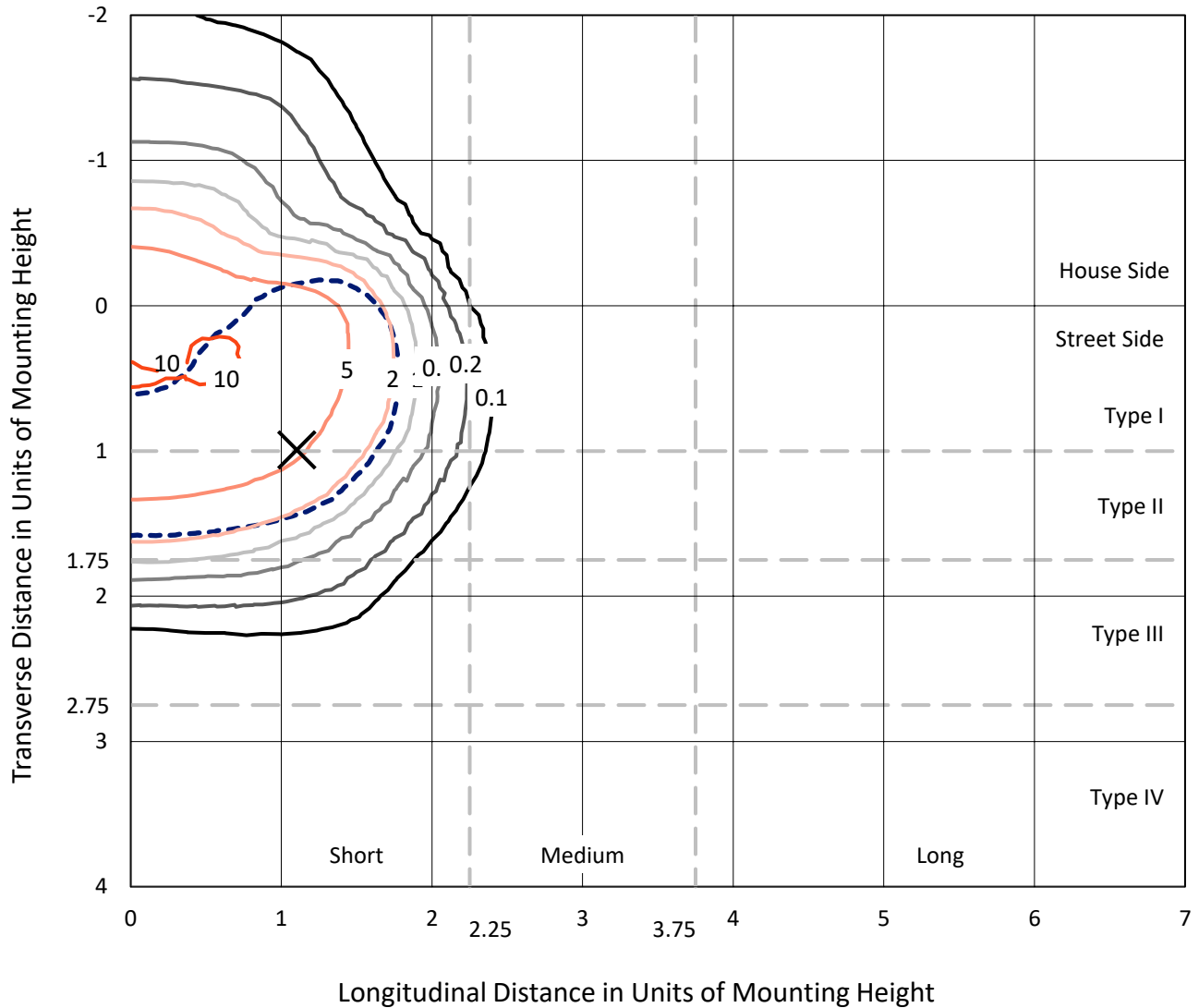
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

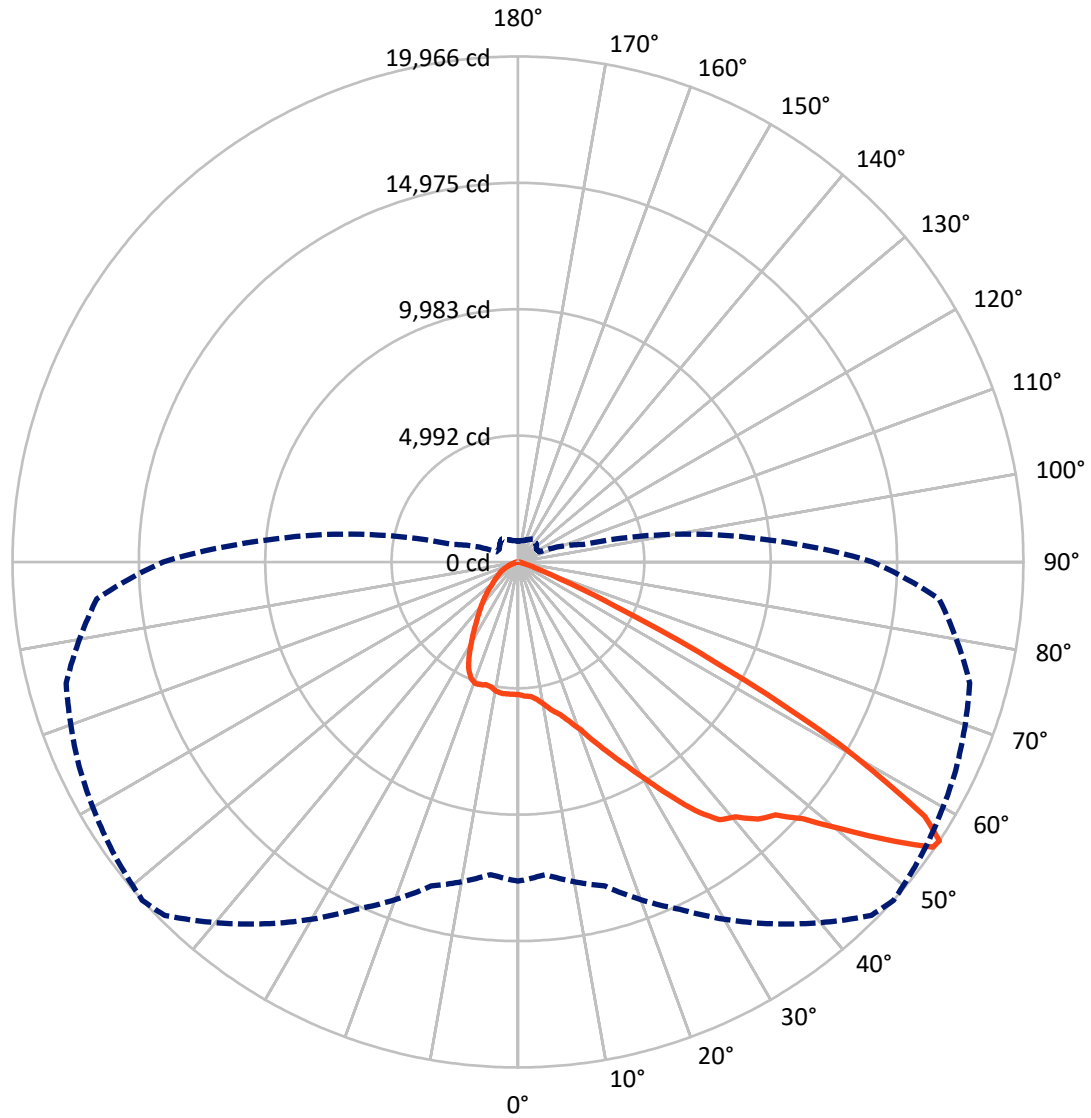
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

REPORT NUMBER: P531519
CATALOG NUMBER: GALN-SA6D-740-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5957.7	0.0	5957.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	21436.3	0.0	21436.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	27394.0	0.0	27394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.7	1.9
10°-20°	1628.9	5.9
20°-30°	2954.4	10.8
30°-40°	4640.8	16.9
40°-50°	6770.1	24.7
50°-60°	8156.6	29.8
60°-70°	2388.2	8.7
70°-80°	303.0	1.1
80°-90°	42.5	0.2
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°	27394.0	100.0
0°-180°	27394.0	100.0

Coefficient of Utilization



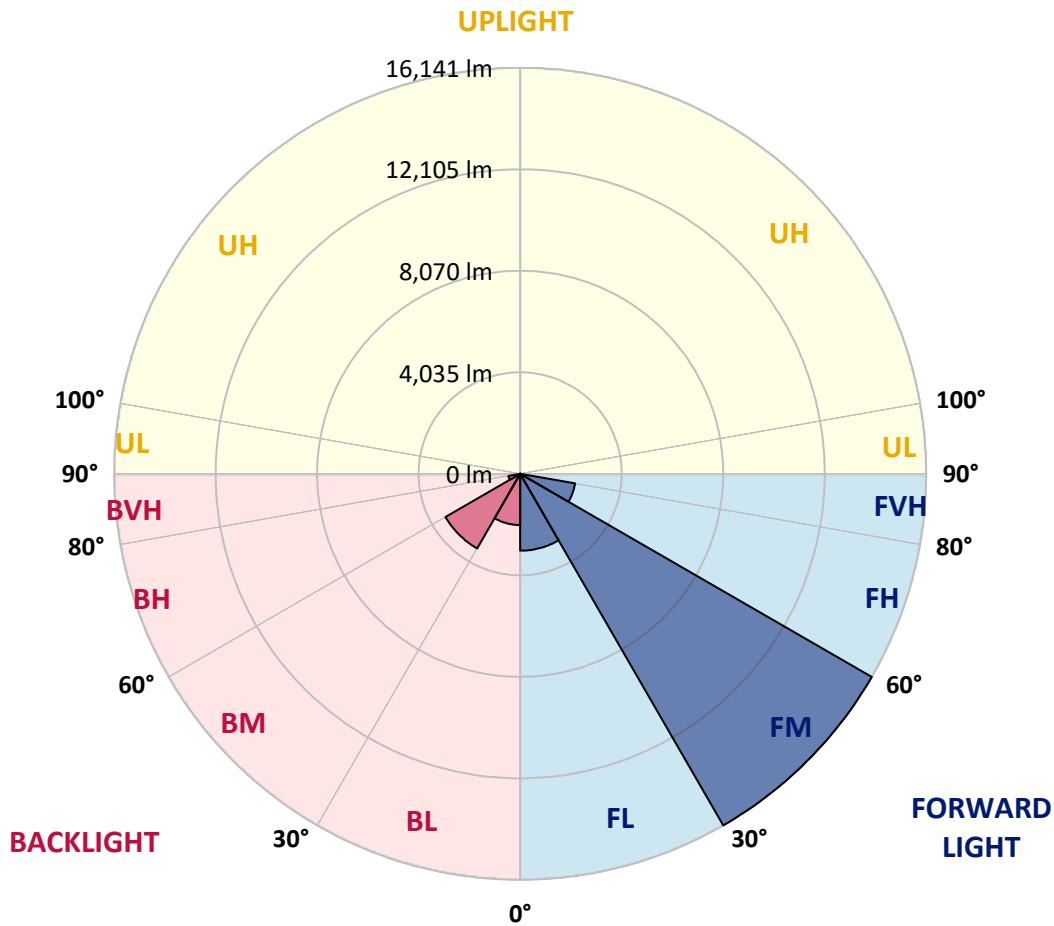
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3056.6	11.2			
FM (30°-60°)	16140.6	58.9			
FH (60°-80°)	2217.7	8.1			G2/5000
FVH (80°-90°)	21.3	0.1			G1/100
BL (0°-30°)	2036.3	7.4	B3/2500		
BM (30°-60°)	3426.8	12.5	B3/5000		
BH (60°-80°)	473.4	1.7	B1/500		G1/500
BVH (80°-90°)	21.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CATALOG NUMBER: GALN-SA6D-740-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3
2.5°	5327.0	5302.1	5302.1	5262.2	5307.1	5287.1	5302.1	5252.2	5302.1	5227.3	5287.1
5°	5352.0	5357.0	5337.0	5362.0	5362.0	5391.9	5342.0	5386.9	5411.8	5357.0	5332.0
7.5°	5481.7	5491.6	5486.6	5466.7	5506.6	5501.6	5496.6	5461.7	5471.7	5451.7	5421.8
10°	5736.0	5731.1	5756.0	5706.1	5676.2	5711.1	5721.1	5666.2	5626.3	5611.3	5516.6
12.5°	6105.1	6045.3	6010.4	5960.5	5975.5	5925.6	6015.4	5920.6	5900.6	5810.9	5716.1
15°	6404.4	6394.4	6399.4	6319.6	6229.8	6249.8	6249.8	6199.9	6170.0	6060.3	5925.6
17.5°	7017.9	6808.4	6853.3	6753.6	6678.7	6673.8	6628.9	6638.8	6559.0	6329.6	6125.1
20°	7496.8	7407.0	7337.1	7167.6	7052.8	7087.8	7067.8	7017.9	6993.0	6693.7	6404.4
22.5°	7925.7	7955.6	7840.9	7796.0	7636.4	7651.4	7691.3	7646.4	7456.9	7147.6	6718.6
25°	8529.2	8494.3	8339.7	8284.8	8135.2	8190.1	8344.7	8309.8	8190.1	7631.4	6963.1
27.5°	9242.5	9122.8	9152.7	8903.3	8758.7	8913.3	9097.9	9272.4	8933.3	8200.0	7252.3
30°	9746.3	9621.6	9611.6	9601.6	9566.7	9746.3	9960.8	10120.4	9846.0	8768.7	7731.2
32.5°	9995.7	10025.6	10110.4	10080.5	10384.7	10753.8	10978.3	11207.7	10863.6	9696.4	8364.6
35°	10659.1	10469.5	10659.1	10679.0	10993.2	11776.3	12060.6	12609.3	12524.5	11008.2	9137.8
37.5°	11048.1	11033.1	11058.1	11247.6	11551.9	12519.5	12923.5	13347.5	13187.9	11796.3	10100.4
40°	11691.5	11731.4	11726.5	11871.1	12205.3	13078.2	13242.8	13586.9	13601.9	12888.6	11517.0
42.5°	12724.0	12564.4	12459.7	12609.3	13078.2	13562.0	13891.2	13821.4	14315.2	14215.4	13337.5
45°	13651.8	13746.5	13591.9	13841.3	14010.9	14270.3	14260.3	14409.9	15038.4	15512.2	14709.2
47.5°	14519.7	14579.5	14654.3	14823.9	15193.0	15232.9	15148.1	15083.3	15951.2	16440.0	15771.6
50°	15038.4	15093.3	15442.4	15746.7	16435.0	16524.8	16574.7	16410.1	16998.6	17053.5	16774.2
52.5°	14898.7	14958.6	15447.4	16450.0	17547.3	18370.3	18220.7	17941.3	17906.4	18120.9	17701.9
55°	13661.8	13606.9	14280.2	15841.4	17896.4	19871.6	19891.6	19597.3	19033.7	18889.0	17562.3
56°	12609.3	12394.8	13252.7	15138.2	17447.5	19742.0	19966.4	19652.2	19123.5	18475.0	16699.4
57.5°	10329.9	10534.4	11387.3	12948.5	15896.3	18809.2	18938.9	18864.1	18465.1	17377.7	14694.2
60°	5696.1	6055.3	6808.4	8718.8	11317.5	14434.9	14539.6	15148.1	15223.0	13307.6	10110.4
62.5°	2419.1	2379.2	3162.3	4568.9	6444.3	8713.8	8908.3	9531.8	9646.5	7671.3	5072.7
65°	982.6	1037.5	1431.5	2299.4	3406.7	3970.3	4244.7	4449.2	4828.2	3167.3	1870.4
67.5°	648.4	643.4	842.9	1311.8	1835.5	1770.7	1770.7	1870.4	1730.8	1291.9	808.0
70°	463.9	478.8	603.5	907.8	1142.2	847.9	813.0	778.1	882.9	852.9	653.4
72.5°	304.3	324.2	404.0	543.7	593.6	463.9	463.9	558.6	728.2	688.3	533.7
75°	199.5	204.5	249.4	314.2	294.3	239.4	264.4	374.1	528.7	508.8	379.1
77.5°	134.7	139.7	169.6	204.5	164.6	134.7	144.6	189.5	259.4	259.4	199.5
80°	49.9	54.9	69.8	64.8	74.8	94.8	104.7	129.7	154.6	154.6	134.7
82.5°	0.0	5.0	15.0	34.9	54.9	74.8	84.8	99.8	114.7	129.7	124.7
85°	0.0	5.0	15.0	24.9	39.9	44.9	49.9	34.9	29.9	29.9	24.9
87.5°	0.0	0.0	5.0	5.0	5.0	5.0	5.0	5.0	10.0	5.0	5.0
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°	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3	5232.3
2.5°	5232.3	5227.3	5227.3	5212.3	5242.2	5227.3	5237.3	5232.3	5167.4	5217.3	5182.4
5°	5287.1	5322.0	5267.2	5257.2	5217.3	5232.3	5232.3	5182.4	5227.3	5222.3	5212.3
7.5°	5426.8	5366.9	5307.1	5247.2	5237.3	5222.3	5167.4	5147.5	5182.4	5142.5	5202.3
10°	5486.6	5496.6	5406.8	5327.0	5252.2	5147.5	5072.7	5027.8	4972.9	5032.8	5067.7
12.5°	5761.0	5661.2	5506.6	5381.9	5127.5	5022.8	4948.0	4928.0	5022.8	5042.7	5007.8
15°	5855.7	5840.8	5641.3	5362.0	5097.6	4972.9	4987.9	4948.0	4957.9	4908.1	4918.0
17.5°	6050.3	5880.7	5646.3	5297.1	5092.6	5062.7	4972.9	4813.3	4723.5	4683.6	4718.5
20°	6264.8	6100.2	5761.0	5322.0	5137.5	5057.7	4763.4	4568.9	4384.3	4284.6	4289.6
22.5°	6454.3	6249.8	5711.1	5332.0	5177.4	4848.2	4494.1	4110.0	3880.6	3725.9	3730.9
25°	6683.7	6394.4	5731.1	5352.0	5072.7	4514.0	4005.3	3631.2	3356.8	3252.1	3287.0
27.5°	6813.4	6484.2	5840.8	5396.9	4798.3	4040.2	3491.5	3142.4	2982.7	2932.9	2927.9
30°	7202.5	6683.7	5975.5	5307.1	4339.4	3531.4	3022.6	2808.2	2653.5	2608.7	2618.6
32.5°	7781.1	7047.8	6150.0	5072.7	3870.6	3077.5	2718.4	2558.8	2414.1	2329.3	2319.4
35°	8264.9	7671.3	6334.6	4708.5	3326.9	2728.4	2503.9	2304.4	2084.9	1990.2	1965.2
37.5°	9187.6	8374.6	6294.7	4159.9	2808.2	2469.0	2274.5	2030.1	1840.5	1710.8	1695.9
40°	10414.7	9197.6	6100.2	3491.5	2424.1	2239.5	2030.1	1795.6	1561.2	1451.5	1441.5
42.5°	11906.0	10205.2	5746.0	2813.2	2040.0	2010.1	1820.6	1551.2	1341.7	1261.9	1266.9
45°	13118.1	11068.1	5386.9	2259.5	1755.7	1785.7	1621.1	1366.7	1222.0	1157.2	1157.2
47.5°	14195.5	11651.6	4997.8	1865.5	1491.4	1561.2	1416.6	1266.9	1142.2	1092.3	1082.4
50°	15232.9	12245.2	4608.8	1511.3	1271.9	1341.7	1326.8	1207.1	1107.3	1047.5	1052.4
52.5°	15881.3	12340.0	4115.0	1237.0	1112.3	1192.1	1242.0	1132.2	1022.5	987.6	977.6
55°	15088.3	11117.9	3192.2	1017.5	942.7	1047.5	1142.2	1017.5	932.7	872.9	867.9
56°	14020.9	9940.8	2668.5	937.7	892.8	1007.5	1107.3	972.6	877.9	842.9	818.0
57.5°	11871.1	8135.2	1970.2	833.0	828.0	937.7	1052.4	927.7	818.0	788.1	788.1
60°	7402.0	4578.9	1192.1	698.3	718.3	833.0	947.7	828.0	728.2	728.2	743.2
62.5°	3371.8	1905.4	723.2	593.6	618.5	718.3	842.9	748.2	693.3	748.2	758.2
65°	1147.2	823.0	523.7	473.8	488.8	593.6	723.2	758.2	753.2	788.1	808.0
67.5°	643.4	528.7	438.9	394.0	384.1	438.9	593.6	758.2	728.2	713.3	723.2
70°	543.7	448.9	389.1	349.2	334.2	354.1	458.9	573.6	513.7	498.8	488.8
72.5°	438.9	374.1	339.2	314.2	269.3	229.4	209.5	219.5	244.4	259.4	284.3
75°	309.2	284.3	284.3	254.4	194.5	144.6	114.7	94.8	64.8	44.9	49.9
77.5°	174.6	174.6	179.6	154.6	124.7	94.8	69.8	49.9	24.9	10.0	5.0
80°	119.7	129.7	139.7	124.7	104.7	84.8	59.9	34.9	15.0	0.0	0.0
82.5°	119.7	134.7	144.6	124.7	104.7	79.8	59.9	34.9	15.0	5.0	0.0
85°	24.9	29.9	34.9	39.9	59.9	59.9	44.9	29.9	15.0	5.0	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	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)