

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: P533341

Luminaire Tested: **GALN-SA8D-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34599 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

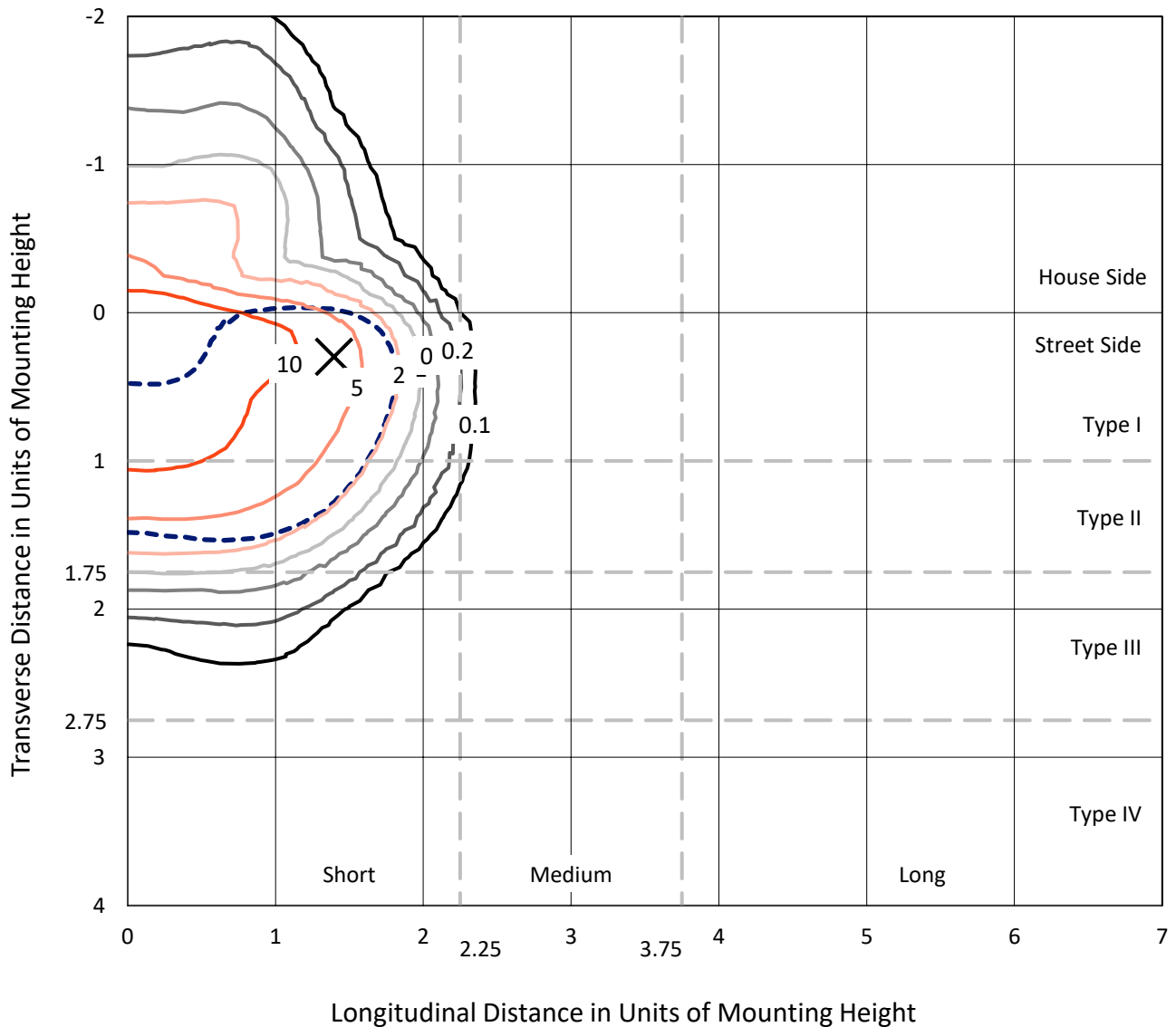
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

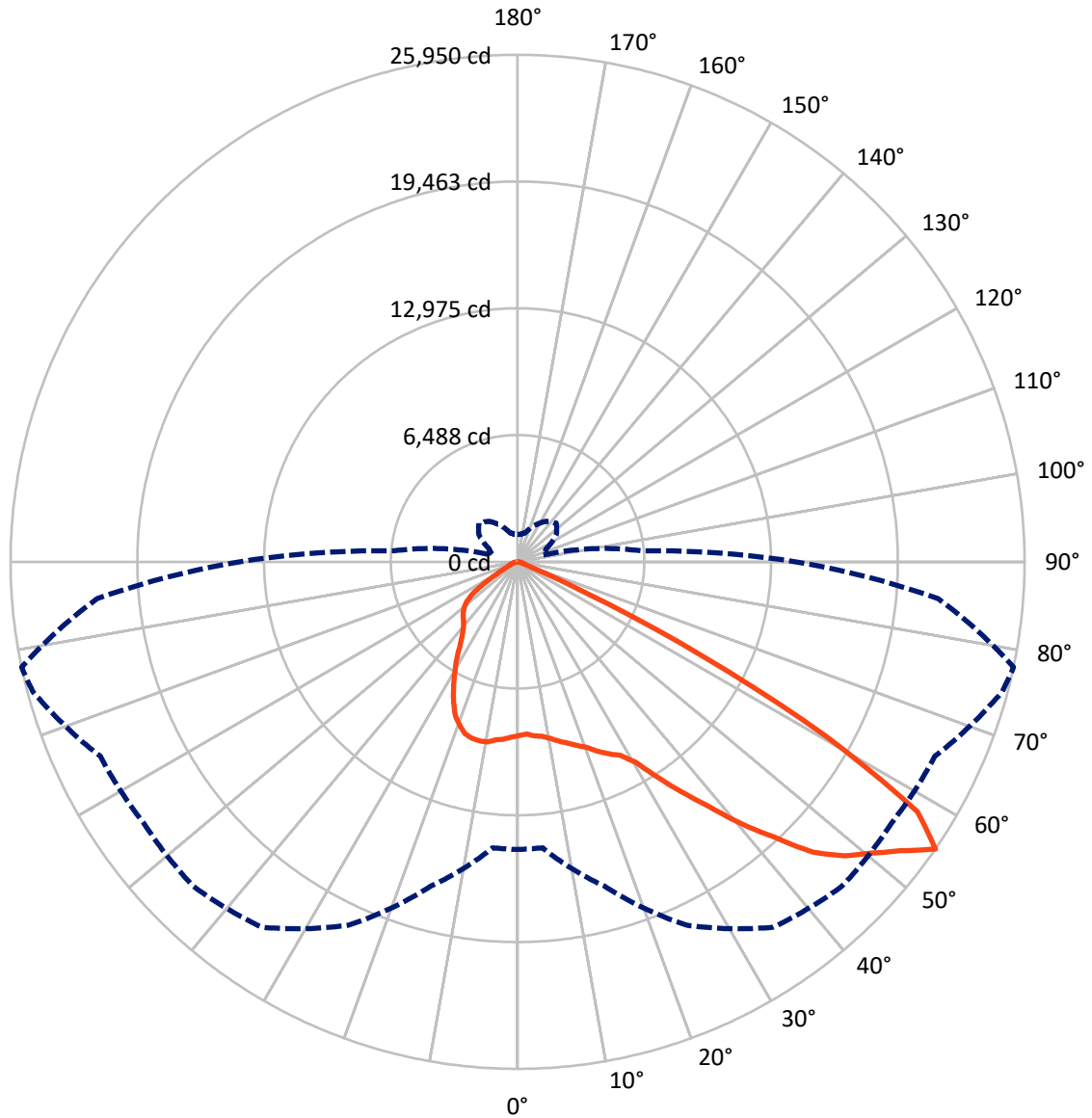
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6426.4	0.0	6426.4
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	28172.6	0.0	28172.6
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	34599.0	0.0	34599.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.2	2.3
10°-20°	2099.2	6.1
20°-30°	3679.5	10.6
30°-40°	6067.0	17.5
40°-50°	8828.3	25.5
50°-60°	10003.4	28.9
60°-70°	2860.1	8.3
70°-80°	222.1	0.6
80°-90°	46.2	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°	34599.0	100.0
0°-180°	34599.0	100.0

**Coefficient of Utilization**

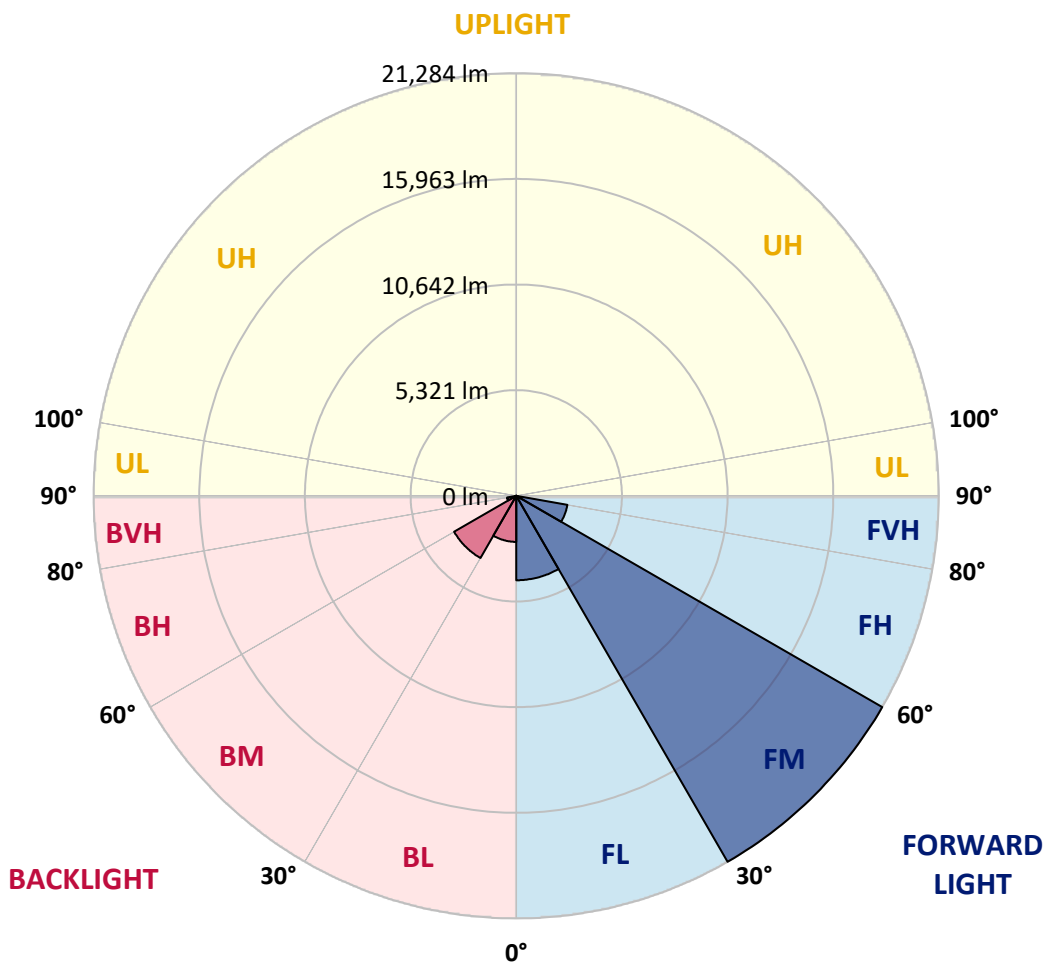


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4253.2	12.3			
FM (30°-60°)	21283.8	61.5			
FH (60°-80°)	2613.1	7.6			G2/5000
FVH (80°-90°)	22.5	0.1			G1/100
BL (0°-30°)	2318.7	6.7	B3/2500		
BM (30°-60°)	3614.9	10.4	B3/5000		
BH (60°-80°)	469.1	1.4	B1/500		G1/500
BVH (80°-90°)	23.7	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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4
2.5°	8363.4	8443.8	8456.2	8555.2	8549.0	8716.0	8765.5	8771.7	8883.1	8827.4	8969.7
5°	8128.4	8085.1	8066.5	8239.7	8289.2	8437.7	8561.4	8635.6	8864.5	8944.9	9093.4
7.5°	7918.0	7918.0	7930.4	8085.1	8066.5	8258.3	8388.2	8617.1	8951.1	9019.1	9198.5
10°	7713.9	7639.7	7732.5	7893.3	8029.4	8116.0	8388.2	8604.7	8994.4	9192.3	9439.8
12.5°	7608.7	7645.9	7658.2	7775.8	7924.2	8184.0	8332.5	8691.3	9303.7	9421.2	9687.2
15°	8270.6	8196.4	8017.0	7911.9	8035.6	8159.3	8530.5	8895.4	9464.5	9631.6	9928.5
17.5°	9037.7	8975.8	8827.4	8542.8	8264.5	8493.3	8784.1	9118.1	9637.7	9885.2	10324.4
20°	10039.8	9940.9	9792.4	9235.7	8994.4	8747.0	9056.3	9452.2	9922.3	10145.0	10596.6
22.5°	11233.7	11233.7	10899.7	10225.4	9724.3	9489.3	9619.2	9848.1	10237.8	10540.9	10986.3
25°	12477.1	12440.0	12136.9	11437.9	10590.4	10312.0	10460.5	10621.3	10726.5	10893.5	11190.4
27.5°	13899.9	13683.4	13299.8	12526.6	11778.1	11239.9	11400.7	11258.5	11128.6	11215.2	11642.0
30°	14864.9	15001.0	14512.3	13770.0	13064.8	12464.7	12495.7	12371.9	11778.1	11901.8	12155.4
32.5°	15867.0	15953.6	15681.4	15273.2	14568.0	13868.9	13615.3	13510.2	13064.8	13120.4	12873.0
35°	16702.1	16869.1	16627.9	16448.5	16244.4	15681.4	14982.4	15322.6	14605.1	14469.0	13825.6
37.5°	17469.2	17419.7	17704.2	17518.7	17475.4	17079.5	16312.4	16380.4	15897.9	15867.0	15124.7
40°	18155.8	18168.2	18557.9	18644.5	18471.3	17766.1	16652.6	17190.8	17580.5	17617.6	16665.0
42.5°	18724.9	18891.9	19226.0	19925.0	19665.2	18489.9	17005.2	17592.9	19040.4	19269.3	18124.9
45°	19219.8	19560.0	19974.5	20599.3	20450.8	19516.7	17883.6	18421.8	20599.3	21199.3	19498.2
47.5°	19250.7	19696.1	20147.7	21075.6	21261.2	20067.3	18793.0	19733.2	21836.5	22486.0	20500.3
50°	19127.0	19362.1	20265.2	21273.5	21694.2	20964.2	20067.3	20834.3	23036.5	23444.8	21007.6
52.5°	17660.9	17840.3	19652.8	21459.1	22473.6	21978.7	21756.1	22368.5	24261.4	24564.5	21483.9
55°	14722.6	14691.7	17184.6	20525.0	22832.4	23481.9	23345.8	23562.4	25678.0	25950.1	21601.4
57.5°	10070.8	10633.7	12786.4	17091.8	20636.4	23129.3	23271.6	22912.8	24026.3	24131.5	18830.1
60°	5431.3	5666.3	7398.4	11406.9	15712.4	18848.6	19219.8	18570.3	18483.7	18186.7	13442.1
62.5°	2158.9	2276.4	3260.0	5647.8	8561.4	11456.4	12254.4	11988.4	11419.3	10639.9	6959.2
65°	1026.9	1101.1	1620.7	2641.4	3798.2	4775.6	5573.6	5821.0	4293.1	3866.2	2295.0
67.5°	699.0	754.7	1181.5	1509.4	1354.7	1416.6	1843.4	1713.5	1008.3	859.8	637.2
70°	532.0	569.1	946.5	1026.9	606.2	426.8	476.3	445.4	414.5	420.6	414.5
72.5°	377.3	408.3	692.8	606.2	266.0	198.0	253.6	303.1	303.1	303.1	296.9
75°	228.9	259.8	402.1	235.1	105.2	105.2	160.8	204.1	216.5	222.7	210.3
77.5°	117.5	148.5	136.1	68.0	68.0	80.4	117.5	142.3	154.6	154.6	148.5
80°	24.7	24.7	24.7	37.1	68.0	86.6	117.5	129.9	148.5	148.5	136.1
82.5°	0.0	6.2	18.6	37.1	61.9	80.4	111.3	129.9	148.5	154.6	142.3
85°	0.0	6.2	12.4	24.7	43.3	49.5	43.3	37.1	37.1	37.1	37.1
87.5°	0.0	0.0	6.2	6.2	6.2	12.4	12.4	12.4	12.4	12.4	12.4
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°	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4	8895.4
2.5°	8982.0	9000.6	8969.7	8963.5	8938.7	9013.0	8833.6	8790.3	8901.6	8796.4	8821.2
5°	9099.6	9142.9	9087.2	8994.4	8858.3	8648.0	8468.6	8233.5	8122.2	8041.8	8029.4
7.5°	9186.2	9217.1	9161.4	8864.5	8456.2	7924.2	7528.3	7237.6	7008.7	6940.7	6829.3
10°	9538.8	9544.9	9266.6	8610.9	7812.9	7113.9	6507.6	6062.2	5833.4	5691.1	5629.2
12.5°	9773.8	9761.5	9198.5	8109.8	7045.8	6117.9	5425.1	4886.9	4676.6	4608.5	4565.2
15°	10070.8	10002.7	9037.7	7596.4	6056.1	5053.9	4429.2	4058.0	4039.4	3996.1	4039.4
17.5°	10305.8	10114.1	8802.6	6662.3	5109.6	4163.2	3754.9	3779.6	3829.1	3872.4	3878.6
20°	10689.4	10293.5	8264.5	5845.7	4231.2	3569.3	3563.1	3674.5	3798.2	3847.7	3897.2
22.5°	10980.1	10367.7	7689.2	4973.5	3513.6	3328.1	3433.2	3600.2	3693.0	3742.5	3816.7
25°	11085.3	10163.5	6922.1	4101.3	3167.2	3216.7	3377.5	3488.9	3606.4	3662.1	3631.2
27.5°	11190.4	10058.4	6006.6	3377.5	2981.6	3142.5	3278.6	3389.9	3427.0	3501.3	3550.7
30°	11444.0	9693.4	5183.8	2919.8	2888.8	3093.0	3192.0	3229.1	3328.1	3371.4	3371.4
32.5°	11648.2	9551.1	4311.6	2703.3	2876.5	3117.7	3130.1	3130.1	3142.5	3111.5	3099.2
35°	12068.8	9062.4	3532.2	2573.4	2870.3	3123.9	3154.8	3049.7	2765.1	2653.8	2622.9
37.5°	12588.4	8747.0	2956.9	2542.4	2913.6	3198.1	3247.6	2851.7	2480.6	2301.2	2270.3
40°	13219.4	8524.3	2579.5	2530.1	3012.6	3371.4	3222.9	2697.1	2214.6	1954.8	1942.4
42.5°	13955.5	8320.1	2325.9	2523.9	3136.3	3550.7	3198.1	2567.2	1942.4	1769.2	1793.9
45°	14543.2	8208.8	2152.7	2480.6	3179.6	3655.9	3216.7	2338.3	1831.0	1719.7	1732.1
47.5°	15001.0	7973.7	2010.4	2406.3	3173.4	3693.0	3049.7	2245.5	1775.4	1806.3	1837.2
50°	15013.3	7658.2	1831.0	2245.5	3080.6	3625.0	2857.9	2158.9	1763.0	1892.9	1954.8
52.5°	14846.3	7212.8	1639.3	2016.6	2864.1	3389.9	2684.7	2121.8	1707.3	1695.0	1769.2
55°	14252.5	6377.7	1317.6	1633.1	2418.7	2796.1	2530.1	2053.7	1540.3	1398.0	1410.4
57.5°	11518.3	4571.4	971.2	1169.1	1713.5	2047.6	2282.6	2022.8	1385.7	1187.7	1193.9
60°	7132.4	2591.9	711.4	798.0	1057.8	1243.4	1849.6	1880.5	1237.2	1002.1	989.8
62.5°	3662.1	1280.5	550.6	562.9	649.5	729.9	1268.1	1577.4	1119.7	952.6	952.6
65°	1224.8	631.0	482.5	433.0	433.0	451.6	767.1	1094.9	946.5	798.0	798.0
67.5°	525.8	470.1	420.6	377.3	346.4	327.9	433.0	637.2	705.2	606.2	581.5
70°	408.3	395.9	365.0	315.5	272.2	247.4	253.6	327.9	402.1	389.7	377.3
72.5°	303.1	303.1	290.7	247.4	210.3	179.4	167.0	173.2	191.8	198.0	204.1
75°	210.3	216.5	216.5	191.8	154.6	129.9	111.3	92.8	74.2	61.9	55.7
77.5°	142.3	148.5	160.8	142.3	117.5	86.6	68.0	49.5	30.9	12.4	12.4
80°	123.7	142.3	154.6	142.3	123.7	92.8	68.0	37.1	18.6	0.0	0.0
82.5°	129.9	142.3	160.8	136.1	117.5	86.6	68.0	43.3	18.6	6.2	0.0
85°	30.9	30.9	37.1	43.3	55.7	61.9	49.5	30.9	18.6	6.2	0.0
87.5°	12.4	12.4	12.4	12.4	12.4	6.2	6.2	6.2	6.2	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)