

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: P534329

Luminaire Tested: **GALN-SA9D-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534329
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-SA9D-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 42651 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

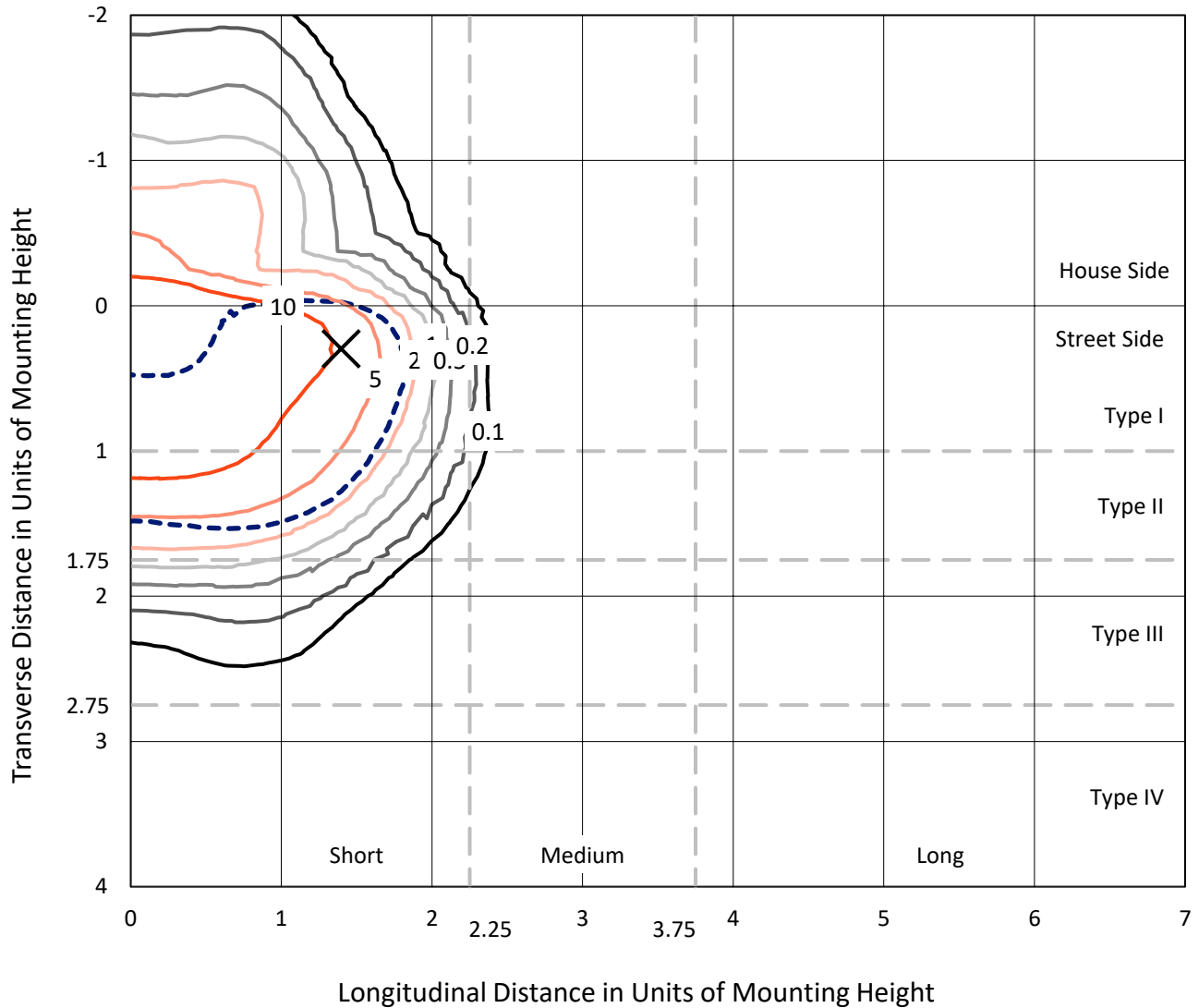
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

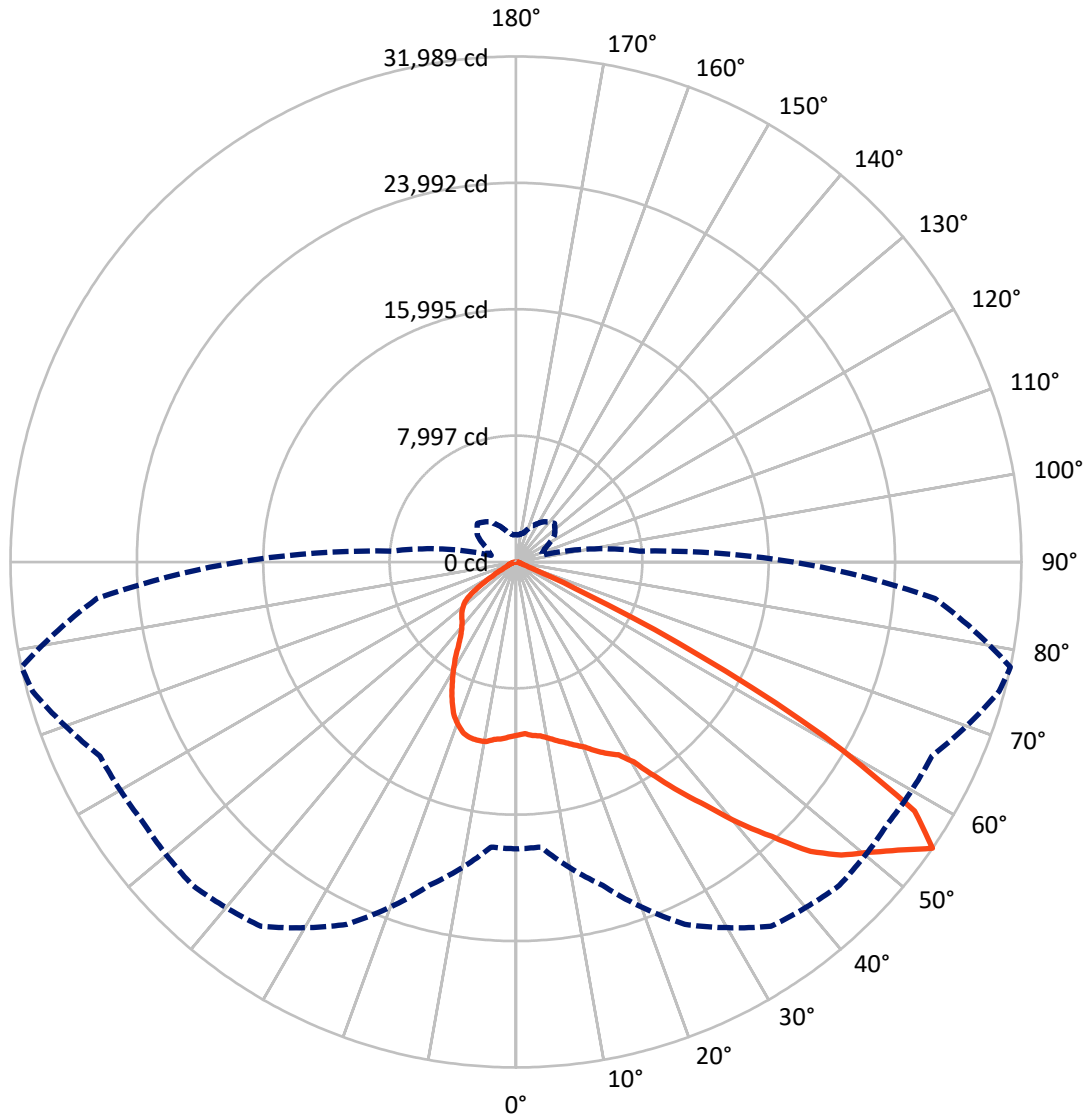
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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
House Side	Lumens	7922.0	0.0	7922.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	34729.1	0.0	34729.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	42651.0	0.0	42651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	977.8	2.3
10°-20°	2587.7	6.1
20°-30°	4535.8	10.6
30°-40°	7479.0	17.5
40°-50°	10882.8	25.5
50°-60°	12331.4	28.9
60°-70°	3525.8	8.3
70°-80°	273.8	0.6
80°-90°	57.0	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°	42651.0	100.0
0°-180°	42651.0	100.0

Coefficient of Utilization



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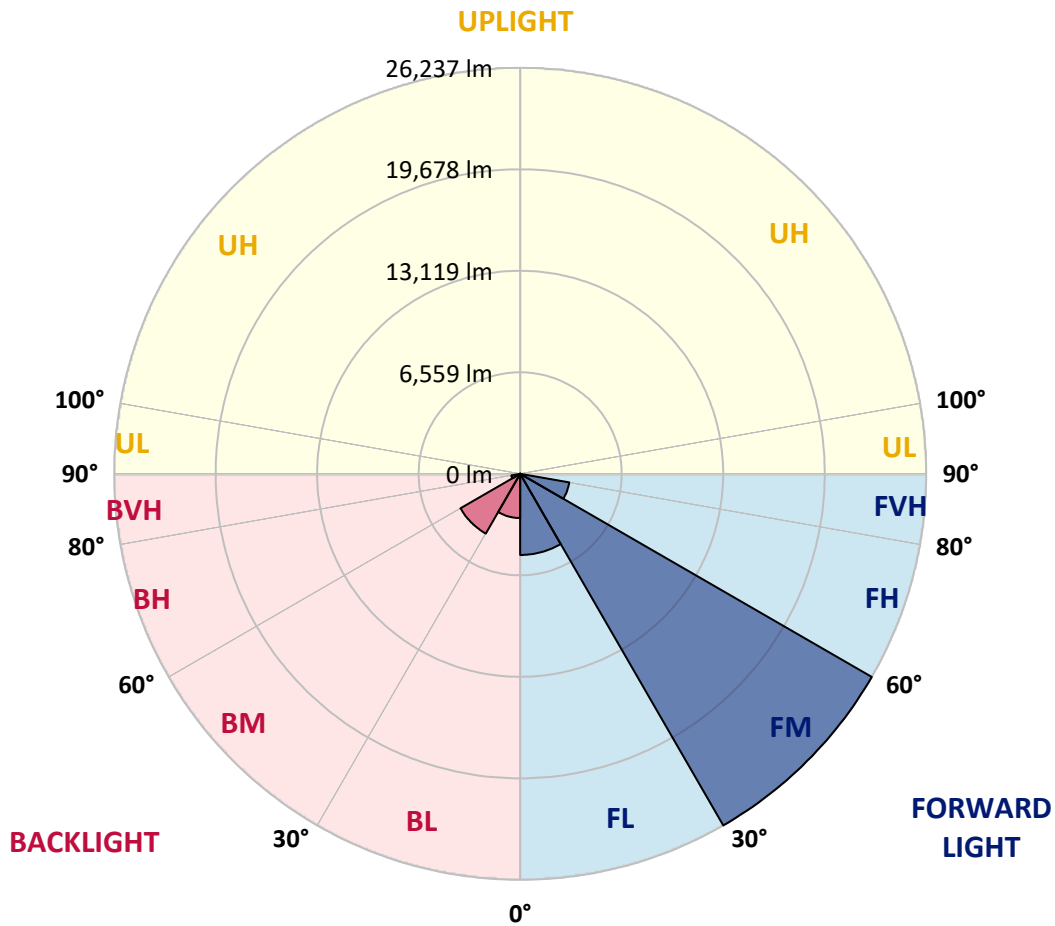
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5243.0	12.3			
FM (30°-60°)	26237.0	61.5			
FH (60°-80°)	3221.3	7.6			G2/5000
FVH (80°-90°)	27.7	0.1			G1/100
BL (0°-30°)	2858.3	6.7	B4/5000		
BM (30°-60°)	4456.2	10.4	B3/5000		
BH (60°-80°)	578.3	1.4	B2/1000		G2/1000
BVH (80°-90°)	29.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6
2.5°	10309.8	10408.9	10424.2	10546.2	10538.6	10744.5	10805.5	10813.1	10950.3	10881.7	11057.1
5°	10020.0	9966.6	9943.8	10157.3	10218.3	10401.3	10553.8	10645.3	10927.5	11026.6	11209.6
7.5°	9760.8	9760.8	9776.0	9966.6	9943.8	10180.2	10340.3	10622.4	11034.2	11118.1	11339.3
10°	9509.1	9417.6	9532.0	9730.3	9898.0	10004.8	10340.3	10607.2	11087.6	11331.6	11636.6
12.5°	9379.5	9425.2	9440.5	9585.4	9768.4	10088.7	10271.7	10714.0	11468.9	11613.8	11941.7
15°	10195.4	10103.9	9882.8	9753.1	9905.6	10058.2	10515.7	10965.6	11667.2	11873.0	12239.1
17.5°	11141.0	11064.7	10881.7	10530.9	10187.8	10469.9	10828.3	11240.1	11880.7	12185.7	12727.1
20°	12376.3	12254.3	12071.3	11385.0	11087.6	10782.6	11163.9	11651.9	12231.4	12506.0	13062.6
22.5°	13848.1	13848.1	13436.3	12605.1	11987.4	11697.7	11857.8	12139.9	12620.4	12994.0	13543.0
25°	15380.8	15335.1	14961.4	14099.7	13055.0	12711.9	12894.9	13093.1	13222.8	13428.7	13794.7
27.5°	17134.7	16867.8	16395.0	15441.8	14519.1	13855.7	14054.0	13878.6	13718.4	13825.2	14351.4
30°	18324.3	18492.1	17889.6	16974.6	16105.2	15365.6	15403.7	15251.2	14519.1	14671.6	14984.3
32.5°	19559.6	19666.4	19330.9	18827.6	17958.3	17096.6	16783.9	16654.3	16105.2	16173.9	15868.9
35°	20589.1	20795.0	20497.6	20276.4	20024.8	19330.9	18469.2	18888.6	18004.0	17836.3	17043.2
37.5°	21534.7	21473.7	21824.4	21595.7	21542.3	21054.3	20108.7	20192.6	19597.8	19559.6	18644.6
40°	22381.1	22396.4	22876.8	22983.5	22770.0	21900.7	20528.1	21191.5	21671.9	21717.7	20543.3
42.5°	23082.7	23288.5	23700.3	24562.0	24241.7	22792.9	20962.7	21687.2	23471.6	23753.7	22343.0
45°	23692.7	24112.1	24623.0	25393.2	25210.2	24058.7	22045.6	22709.0	25393.2	26132.9	24035.9
47.5°	23730.8	24279.9	24836.5	25980.4	26209.1	24737.4	23166.5	24325.6	26918.3	27719.0	25271.2
50°	23578.3	23868.1	24981.4	26224.4	26742.9	25843.1	24737.4	25683.0	28397.7	28901.0	25896.5
52.5°	21771.1	21992.2	24226.5	26453.2	27703.8	27093.7	26819.2	27574.1	29907.6	30281.2	26483.7
55°	18148.9	18110.8	21183.9	25301.7	28146.0	28946.7	28779.0	29045.9	31653.8	31989.3	26628.6
57.5°	12414.5	13108.4	15762.1	21069.5	25439.0	28512.1	28687.5	28245.2	29617.8	29747.4	23212.3
60°	6695.3	6985.0	9120.2	14061.6	19369.0	23235.2	23692.7	22892.0	22785.3	22419.2	16570.4
62.5°	2661.3	2806.2	4018.7	6962.2	10553.8	14122.6	15106.3	14778.4	14076.8	13116.0	8578.8
65°	1265.8	1357.4	1997.9	3256.1	4682.1	5887.0	6870.7	7175.7	5292.2	4766.0	2829.1
67.5°	861.7	930.3	1456.5	1860.6	1670.0	1746.3	2272.4	2112.3	1243.0	1060.0	785.4
70°	655.8	701.6	1166.7	1265.8	747.3	526.2	587.2	549.0	510.9	518.5	510.9
72.5°	465.2	503.3	854.1	747.3	327.9	244.0	312.6	373.7	373.7	373.7	366.0
75°	282.1	320.3	495.7	289.8	129.6	129.6	198.3	251.6	266.9	274.5	259.3
77.5°	144.9	183.0	167.8	83.9	83.9	99.1	144.9	175.4	190.6	190.6	183.0
80°	30.5	30.5	30.5	45.8	83.9	106.8	144.9	160.1	183.0	183.0	167.8
82.5°	0.0	7.6	22.9	45.8	76.3	99.1	137.3	160.1	183.0	190.6	175.4
85°	0.0	7.6	15.3	30.5	53.4	61.0	53.4	45.8	45.8	45.8	45.8
87.5°	0.0	0.0	7.6	7.6	7.6	15.3	15.3	15.3	15.3	15.3	15.3
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°	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6	10965.6
2.5°	11072.4	11095.2	11057.1	11049.5	11019.0	11110.5	10889.3	10836.0	10973.2	10843.6	10874.1
5°	11217.2	11270.6	11202.0	11087.6	10919.8	10660.6	10439.4	10149.7	10012.4	9913.3	9898.0
7.5°	11324.0	11362.1	11293.5	10927.5	10424.2	9768.4	9280.3	8921.9	8639.8	8555.9	8418.7
10°	11758.7	11766.3	11423.1	10614.8	9631.1	8769.4	8022.1	7473.1	7190.9	7015.5	6939.3
12.5°	12048.4	12033.2	11339.3	9997.1	8685.5	7541.7	6687.6	6024.2	5764.9	5681.1	5627.7
15°	12414.5	12330.6	11141.0	9364.2	7465.5	6230.1	5459.9	5002.4	4979.5	4926.1	4979.5
17.5°	12704.2	12467.8	10851.2	8212.8	6298.7	5132.0	4628.7	4659.2	4720.2	4773.6	4781.2
20°	13177.0	12689.0	10187.8	7206.2	5215.9	4400.0	4392.3	4529.6	4682.1	4743.1	4804.1
22.5°	13535.4	12780.5	9478.6	6131.0	4331.3	4102.6	4232.2	4438.1	4552.5	4613.5	4705.0
25°	13665.1	12528.8	8533.0	5055.8	3904.3	3965.3	4163.6	4300.8	4445.7	4514.3	4476.2
27.5°	13794.7	12399.2	7404.4	4163.6	3675.5	3873.8	4041.6	4178.8	4224.6	4316.1	4377.1
30°	14107.3	11949.3	6390.2	3599.3	3561.2	3812.8	3934.8	3980.6	4102.6	4155.9	4155.9
32.5°	14359.0	11773.9	5315.0	3332.4	3545.9	3843.3	3858.5	3858.5	3873.8	3835.7	3820.4
35°	14877.5	11171.5	4354.2	3172.2	3538.3	3850.9	3889.1	3759.4	3408.6	3271.4	3233.2
37.5°	15518.1	10782.6	3645.0	3134.1	3591.7	3942.4	4003.4	3515.4	3057.9	2836.7	2798.6
40°	16295.9	10508.1	3179.9	3118.9	3713.7	4155.9	3972.9	3324.8	2730.0	2409.7	2394.4
42.5°	17203.3	10256.4	2867.2	3111.2	3866.2	4377.1	3942.4	3164.6	2394.4	2180.9	2211.4
45°	17927.8	10119.2	2653.7	3057.9	3919.6	4506.7	3965.3	2882.5	2257.2	2119.9	2135.2
47.5°	18492.1	9829.4	2478.3	2966.4	3911.9	4552.5	3759.4	2768.1	2188.5	2226.7	2264.8
50°	18507.3	9440.5	2257.2	2768.1	3797.5	4468.6	3523.0	2661.3	2173.3	2333.4	2409.7
52.5°	18301.4	8891.4	2020.8	2485.9	3530.6	4178.8	3309.5	2615.6	2104.7	2089.4	2180.9
55°	17569.4	7862.0	1624.3	2013.2	2981.6	3446.8	3118.9	2531.7	1898.8	1723.4	1738.6
57.5°	14198.8	5635.3	1197.2	1441.2	2112.3	2524.1	2813.8	2493.6	1708.1	1464.1	1471.7
60°	8792.3	3195.1	876.9	983.7	1304.0	1532.7	2280.1	2318.2	1525.1	1235.3	1220.1
62.5°	4514.3	1578.5	678.7	693.9	800.7	899.8	1563.2	1944.5	1380.2	1174.3	1174.3
65°	1509.9	777.8	594.8	533.8	533.8	556.7	945.6	1349.7	1166.7	983.7	983.7
67.5°	648.2	579.5	518.5	465.2	427.0	404.2	533.8	785.4	869.3	747.3	716.8
70°	503.3	488.0	449.9	388.9	335.5	305.0	312.6	404.2	495.7	480.4	465.2
72.5°	373.7	373.7	358.4	305.0	259.3	221.1	205.9	213.5	236.4	244.0	251.6
75°	259.3	266.9	266.9	236.4	190.6	160.1	137.3	114.4	91.5	76.3	68.6
77.5°	175.4	183.0	198.3	175.4	144.9	106.8	83.9	61.0	38.1	15.3	15.3
80°	152.5	175.4	190.6	175.4	152.5	114.4	83.9	45.8	22.9	0.0	0.0
82.5°	160.1	175.4	198.3	167.8	144.9	106.8	83.9	53.4	22.9	7.6	0.0
85°	38.1	38.1	45.8	53.4	68.6	76.3	61.0	38.1	22.9	7.6	0.0
87.5°	15.3	15.3	15.3	15.3	15.3	7.6	7.6	7.6	7.6	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)