

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: P534325

Luminaire Tested: **GALN-SA9D-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
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-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46382 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

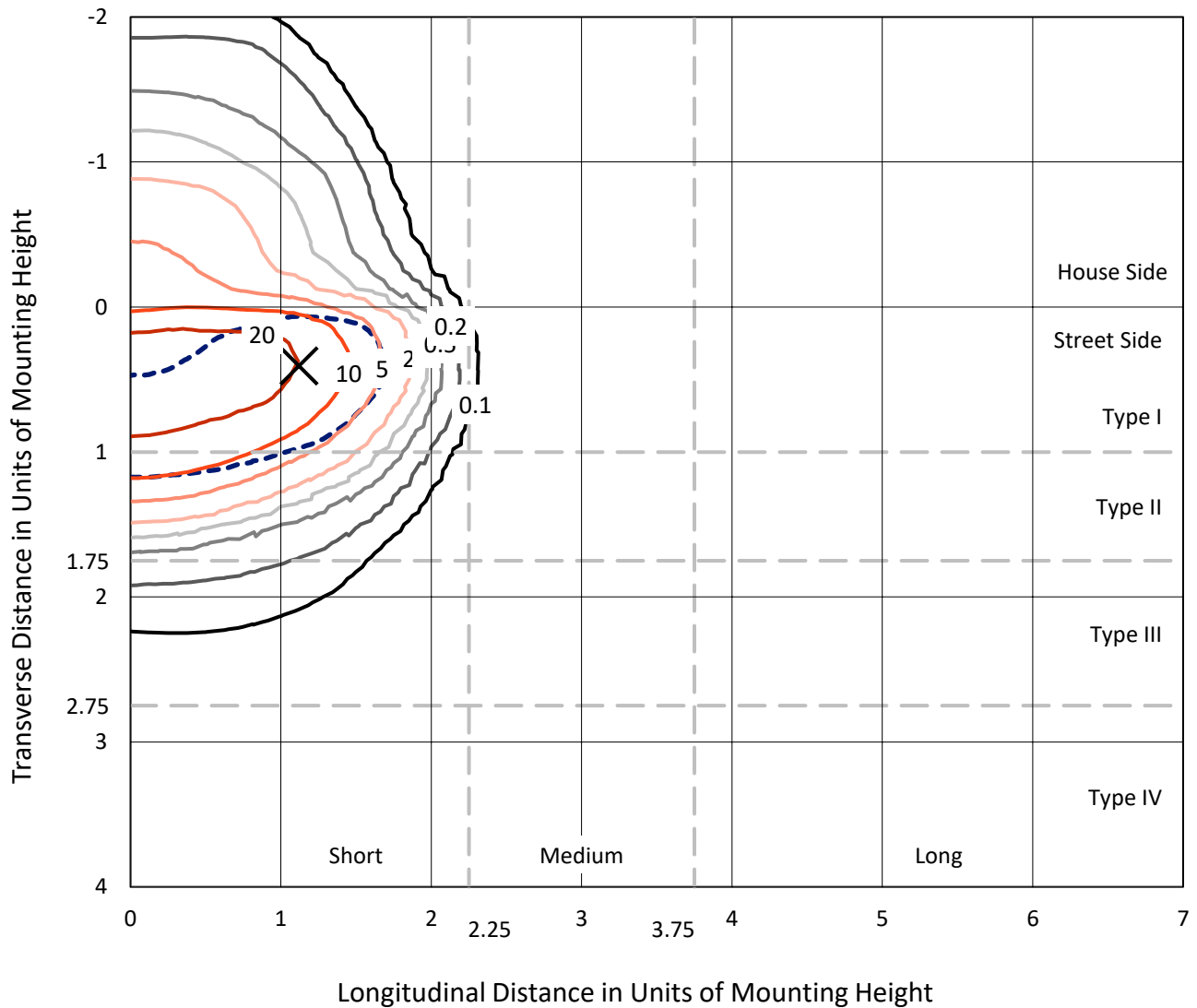
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

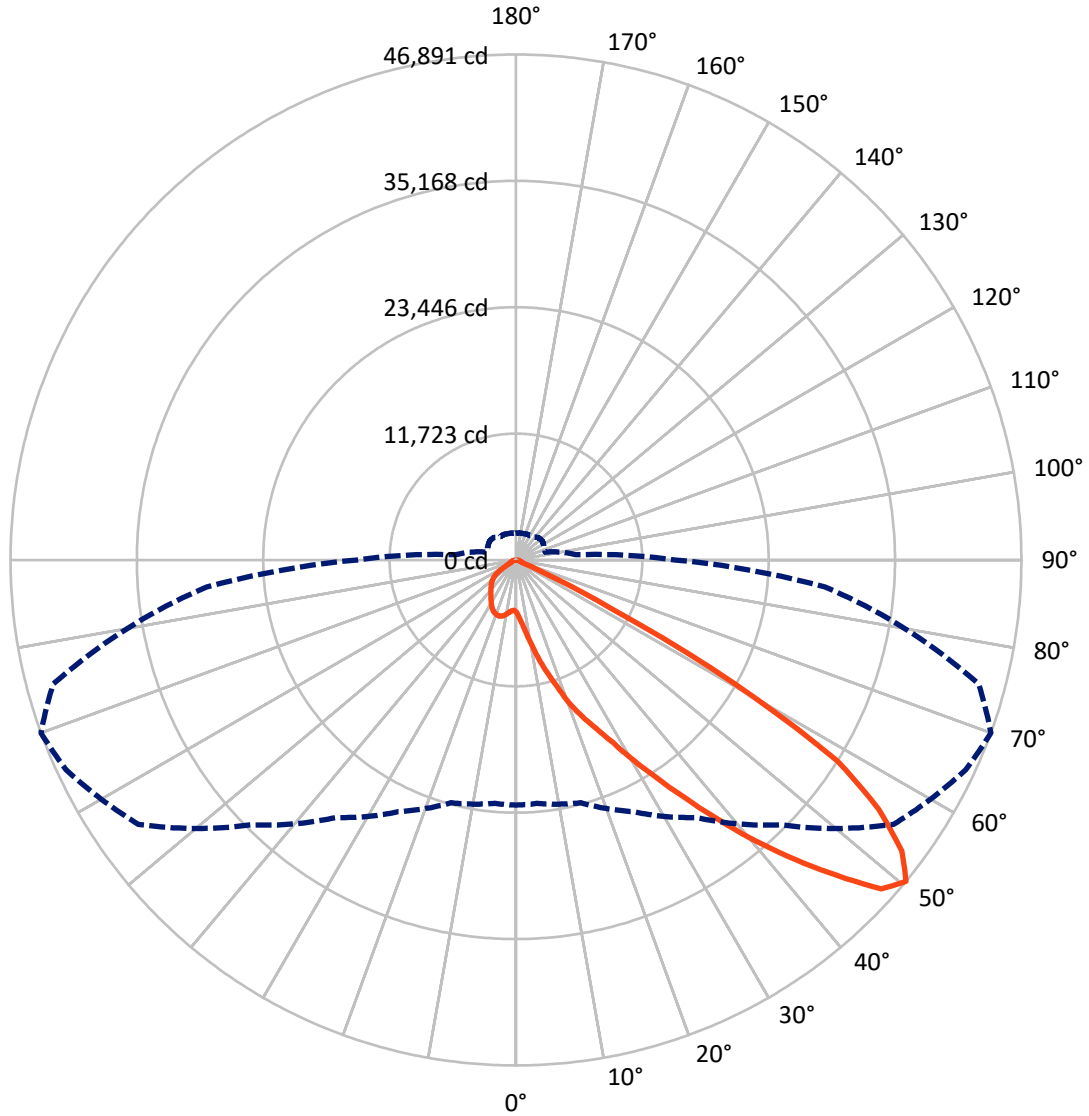
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6477.6	0.0	6477.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	39904.4	0.0	39904.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	46382.0	0.0	46382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.7	1.3
10°-20°	2702.4	5.8
20°-30°	5669.1	12.2
30°-40°	9771.6	21.1
40°-50°	14281.1	30.8
50°-60°	11122.6	24.0
60°-70°	1884.5	4.1
70°-80°	258.9	0.6
80°-90°	67.1	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°	46382.0	100.0
0°-180°	46382.0	100.0

Coefficient of Utilization



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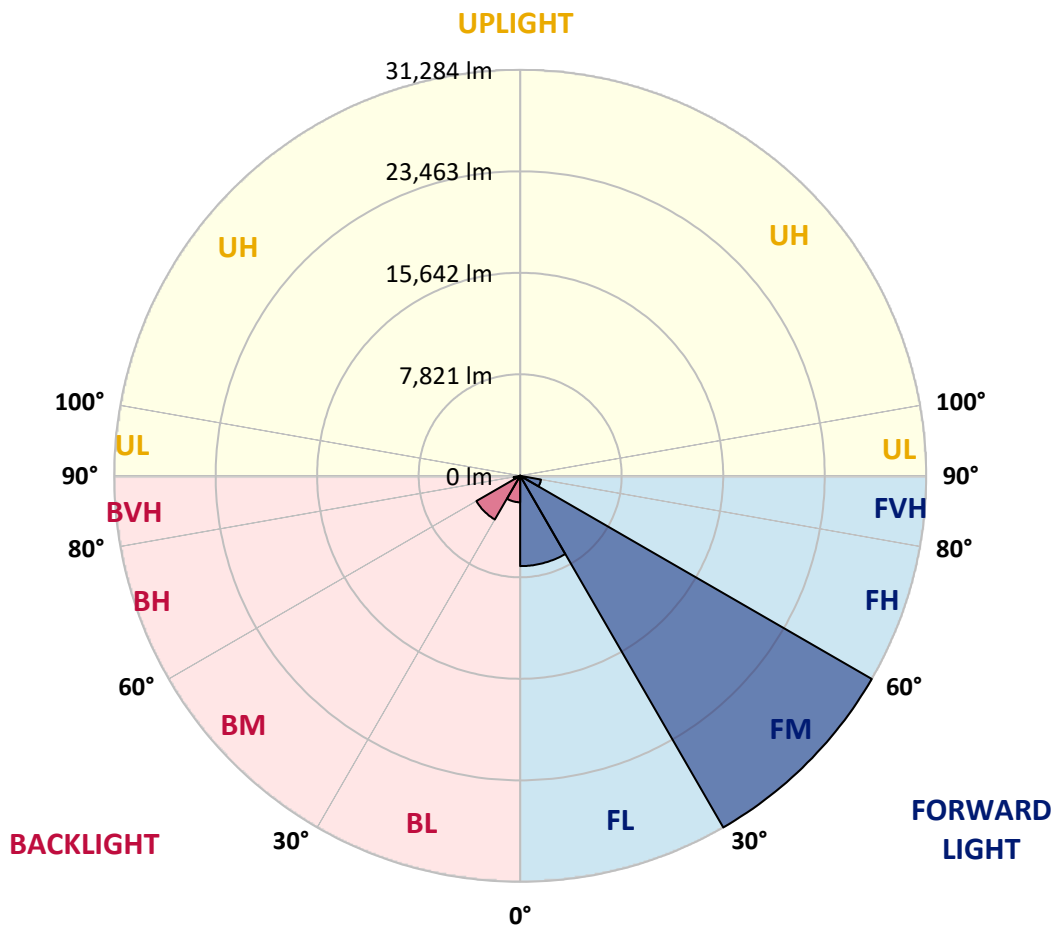
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6957.8	15.0			
FM (30°-60°)	31283.9	67.4			
FH (60°-80°)	1631.7	3.5			G1/1800
FVH (80°-90°)	31.0	0.1			G1/100
BL (0°-30°)	2038.3	4.4	B3/2500		
BM (30°-60°)	3891.5	8.4	B3/5000		
BH (60°-80°)	511.7	1.1	B2/1000		G2/1000
BVH (80°-90°)	36.1	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3
2.5°	6291.3	6245.5	6146.4	5963.4	5887.1	5704.1	5597.3	5391.4	5261.8	5116.9	4956.8
5°	8861.2	8624.8	8479.9	8274.0	7671.6	7297.9	6680.2	6154.0	5910.0	5643.1	5277.1
7.5°	11515.0	11362.5	11164.2	10721.9	10310.1	9532.3	8472.3	7313.2	6817.5	6359.9	5635.5
10°	13711.2	13284.2	13261.3	12933.4	12483.5	11553.1	10279.6	8838.3	7953.7	7282.7	6146.4
12.5°	15244.0	14855.1	15030.5	14992.3	14572.9	13718.8	12247.1	10340.6	9417.9	8373.1	6672.6
15°	16639.5	16479.4	16426.0	16380.2	16212.5	15579.5	14260.3	12170.8	10836.3	9578.0	7267.4
17.5°	18004.5	17592.7	17791.0	17829.1	17813.9	17242.0	16006.6	13909.5	12338.6	10851.5	7892.7
20°	19217.0	19255.2	18988.3	18934.9	18889.1	18866.3	17661.4	15632.9	14184.0	12186.0	8708.7
22.5°	20772.7	20505.8	20742.2	20589.7	20292.3	20109.3	19186.5	17158.1	15785.4	13795.1	9539.9
25°	22610.5	22824.1	22267.4	22206.4	21878.5	21245.5	20414.3	18866.3	17325.8	15289.8	10439.7
27.5°	24875.4	24501.7	24356.8	24021.3	23426.5	23159.6	22183.5	20627.8	19186.5	16860.7	11309.1
30°	26820.0	26720.8	25996.4	25599.9	25081.3	25073.7	23708.7	23014.7	21611.6	19323.8	12506.3
32.5°	28406.2	27971.5	27704.6	27430.0	27010.6	27125.0	25973.5	25607.5	24196.7	21611.6	13917.1
35°	29466.1	29153.5	28993.3	28573.9	28451.9	28962.8	28482.4	28329.9	27170.8	24829.6	15571.9
37.5°	29801.7	29900.8	29870.3	29344.1	29603.4	30983.7	31601.4	31204.8	30594.8	28223.1	17364.0
40°	30099.1	30167.7	30015.2	30632.9	31372.6	32943.5	35177.9	34522.1	34293.3	31662.4	19857.6
42.5°	30266.8	30213.5	30213.5	31281.1	32402.1	35559.2	38632.4	38197.7	38022.3	35322.8	22740.2
45°	29542.4	29023.8	29580.5	31029.4	33286.7	36847.9	41392.9	41995.3	41743.7	39677.1	26110.8
47.5°	26835.2	27155.5	27468.2	29405.1	32211.4	36451.4	43085.8	45137.2	45602.4	43337.5	28322.3
50°	22740.2	22671.5	23319.7	25760.0	29168.7	34743.2	42757.9	46044.7	46891.1	44435.6	28787.4
52.5°	16540.4	17043.7	17745.3	20170.3	24212.0	30320.2	38525.6	43703.5	44832.2	43085.8	28482.4
55°	9631.4	9074.7	10653.3	12704.6	16517.5	22869.8	32569.8	38739.1	40828.6	40630.3	26942.0
57.5°	3858.7	3736.6	4278.1	5765.1	8617.2	14176.4	23685.8	31830.1	35177.9	37214.0	23678.1
60°	1692.9	1654.8	1944.6	2348.8	3523.1	6535.3	12956.3	19796.6	23289.2	26004.0	16296.4
62.5°	1220.1	1204.9	1349.8	1494.7	1860.7	2844.4	5444.8	7976.6	9944.1	12010.7	7297.9
65°	983.7	1021.9	1121.0	1197.3	1372.6	1578.5	1921.7	2219.1	2722.4	2821.6	1609.0
67.5°	800.7	831.2	922.7	1006.6	1037.1	854.1	884.6	777.8	777.8	693.9	556.7
70°	587.2	594.8	701.6	800.7	640.6	343.2	602.4	602.4	541.4	518.6	472.8
72.5°	434.7	442.3	526.2	495.7	251.7	213.5	442.3	488.1	442.3	419.4	381.3
75°	320.3	327.9	274.5	114.4	106.8	137.3	259.3	335.5	320.3	312.7	289.8
77.5°	61.0	45.8	38.1	53.4	76.3	114.4	167.8	205.9	213.5	228.8	213.5
80°	7.6	7.6	22.9	45.8	83.9	122.0	175.4	198.3	205.9	213.5	198.3
82.5°	0.0	7.6	22.9	45.8	83.9	114.4	152.5	175.4	190.6	198.3	190.6
85°	0.0	7.6	15.3	38.1	68.6	83.9	76.3	53.4	45.8	53.4	38.1
87.5°	0.0	0.0	7.6	7.6	15.3	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°	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3	4804.3
2.5°	4865.3	4834.8	4728.0	4613.6	4514.5	4560.2	4514.5	4476.4	4491.6	4476.4	4461.1
5°	5132.2	4994.9	4766.1	4667.0	4583.1	4575.5	4552.6	4545.0	4552.6	4552.6	4484.0
7.5°	5383.8	5162.7	4918.6	4811.9	4712.8	4720.4	4667.0	4667.0	4659.4	4621.2	4606.0
10°	5765.1	5467.7	5155.0	4964.4	4842.4	4819.5	4766.1	4712.8	4712.8	4712.8	4636.5
12.5°	6184.5	5810.9	5383.8	5162.7	5017.8	4903.4	4819.5	4804.3	4720.4	4705.1	4667.0
15°	6550.6	6077.8	5536.3	5231.3	5048.3	4895.8	4766.1	4682.2	4644.1	4621.2	4590.7
17.5°	6909.0	6306.5	5620.2	5231.3	5033.0	4857.6	4720.4	4644.1	4552.6	4567.9	4506.9
20°	7389.4	6550.6	5643.1	5132.2	4888.1	4720.4	4537.4	4499.2	4445.8	4400.1	4415.3
22.5°	7854.6	6726.0	5574.5	5010.2	4659.4	4461.1	4369.6	4323.8	4301.0	4262.8	4209.4
25°	8274.0	6916.6	5467.7	4789.0	4415.3	4270.5	4186.6	4178.9	4125.6	4125.6	4026.4
27.5°	8701.1	6985.2	5284.7	4529.7	4201.8	4117.9	4079.8	4064.6	4041.7	3988.3	3919.7
30°	9189.1	7008.1	5017.8	4262.8	4011.2	3919.7	3973.0	4011.2	3912.0	3812.9	3843.4
32.5°	9593.3	6954.7	4697.5	4011.2	3873.9	3828.2	3934.9	3973.0	3858.7	3751.9	3698.5
35°	10081.3	6825.1	4384.8	3812.9	3736.6	3828.2	3919.7	3919.7	3690.9	3561.3	3530.8
37.5°	10821.0	6680.2	4095.1	3645.1	3591.8	3782.4	3904.4	3820.5	3462.1	3302.0	3263.8
40°	11614.1	6588.7	3812.9	3477.4	3515.5	3706.1	3774.8	3515.5	3149.5	3050.3	3019.8
42.5°	12765.6	6405.7	3561.3	3332.5	3446.9	3599.4	3599.4	3134.2	2996.9	2943.6	2935.9
45°	14199.3	6276.0	3340.1	3210.5	3347.7	3385.9	3263.8	2935.9	2836.8	2821.6	2829.2
47.5°	14900.8	6024.4	3111.3	3065.6	3164.7	3172.3	2852.1	2775.8	2691.9	2669.0	2653.8
50°	14794.1	5574.5	2813.9	2874.9	3012.2	2935.9	2600.4	2615.7	2539.4	2531.8	2493.6
52.5°	14046.7	4865.3	2516.5	2661.4	2813.9	2592.8	2394.5	2379.3	2379.3	2280.1	2242.0
55°	12453.0	3919.7	2158.1	2341.1	2524.1	2181.0	2127.6	2112.4	2074.2	1982.7	1959.8
57.5°	9860.2	2874.9	1624.3	1822.6	2142.9	1853.1	1845.4	1776.8	1677.7	1609.0	1609.0
60°	5864.2	1654.8	1021.9	1113.4	1418.4	1502.3	1670.1	1639.5	1471.8	1365.0	1334.5
62.5°	2676.7	854.1	648.2	663.4	762.6	976.1	1311.6	1517.5	1281.1	1098.1	1082.9
65°	899.8	632.9	533.8	510.9	526.2	587.2	785.5	1075.2	1021.9	846.5	816.0
67.5°	549.1	564.3	503.3	465.2	465.2	457.5	449.9	488.1	602.4	587.2	594.8
70°	472.8	518.6	465.2	419.4	404.2	381.3	320.3	266.9	228.8	266.9	282.2
72.5°	381.3	411.8	396.5	358.4	320.3	289.8	228.8	175.4	129.6	114.4	114.4
75°	282.2	305.0	320.3	274.5	244.0	205.9	167.8	114.4	68.6	45.8	45.8
77.5°	205.9	228.8	236.4	213.5	183.0	144.9	106.8	76.3	38.1	15.3	15.3
80°	175.4	205.9	228.8	213.5	190.6	137.3	99.1	53.4	30.5	7.6	7.6
82.5°	167.8	205.9	228.8	205.9	183.0	129.6	99.1	61.0	22.9	7.6	7.6
85°	38.1	53.4	68.6	83.9	99.1	99.1	76.3	45.8	22.9	7.6	7.6
87.5°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	7.6	7.6	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)