

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: P529141

Luminaire Tested: **GALN-SA4B-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12239 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

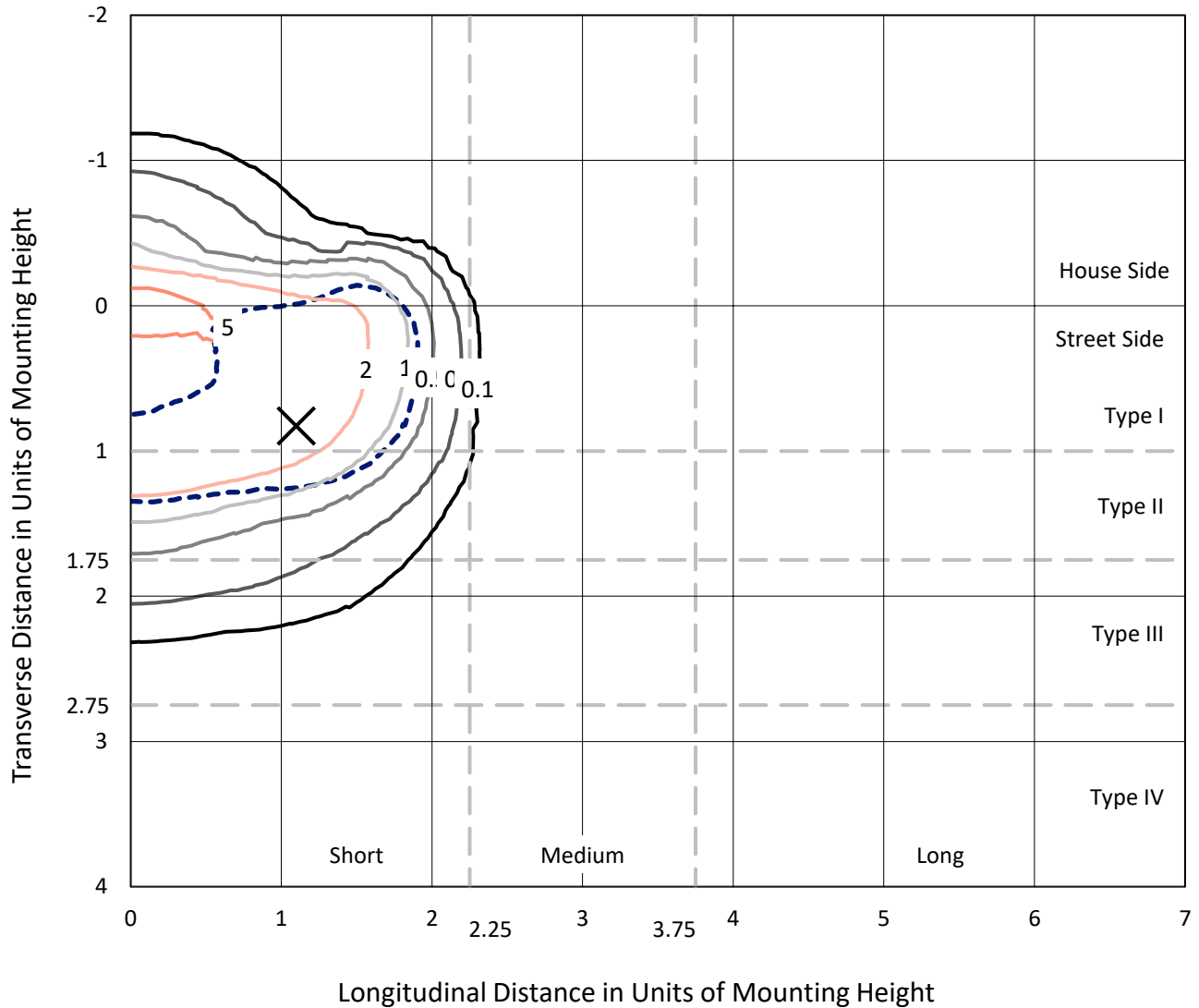
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

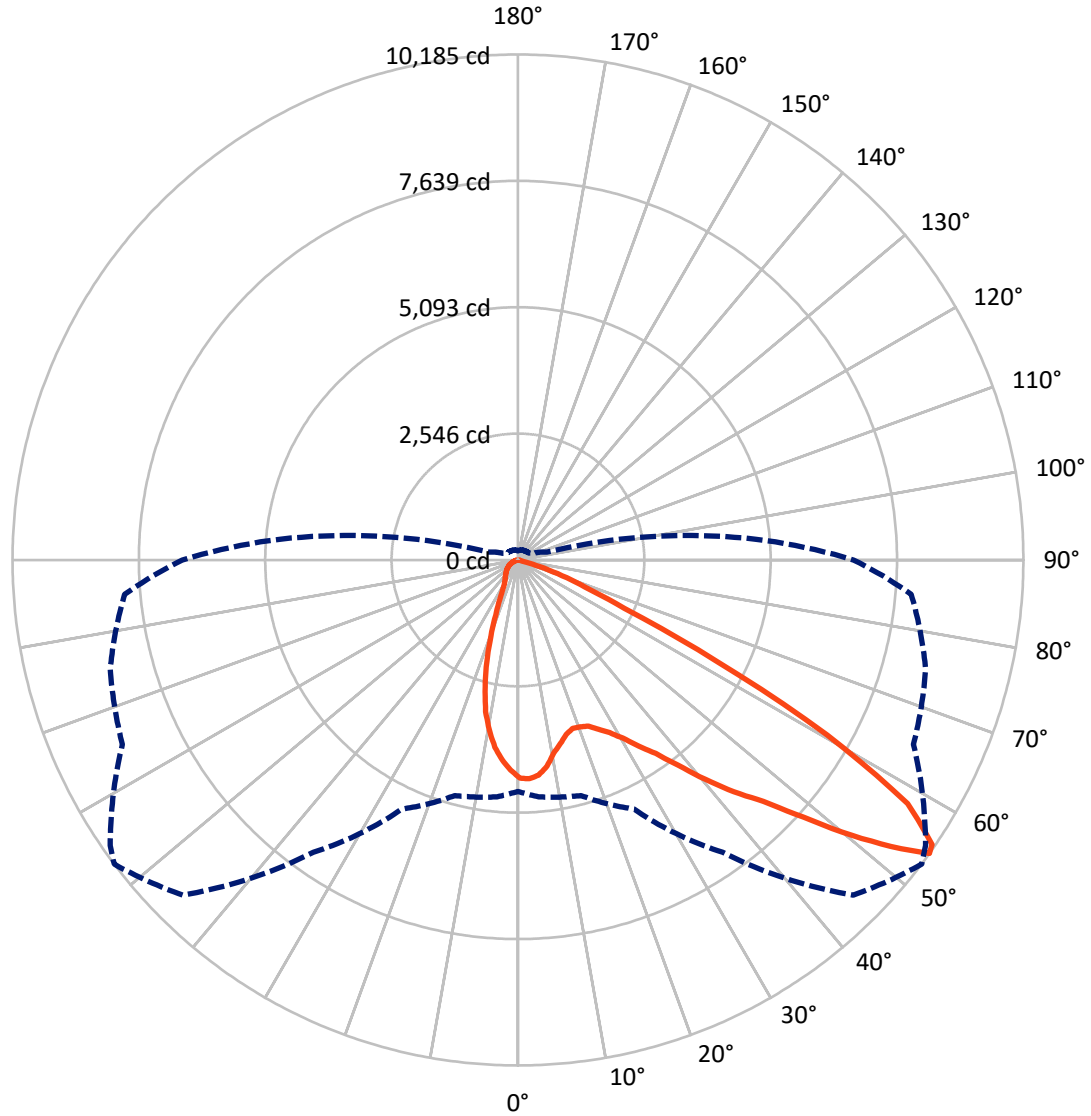
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2025.0	0.0	2025.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10214.0	0.0	10214.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	12239.0	0.0	12239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.2	3.1
10°-20°	864.7	7.1
20°-30°	1229.0	10.0
30°-40°	1896.6	15.5
40°-50°	2973.7	24.3
50°-60°	3454.4	28.2
60°-70°	1305.3	10.7
70°-80°	124.1	1.0
80°-90°	14.0	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°	12239.0	100.0
0°-180°	12239.0	100.0

Coefficient of Utilization



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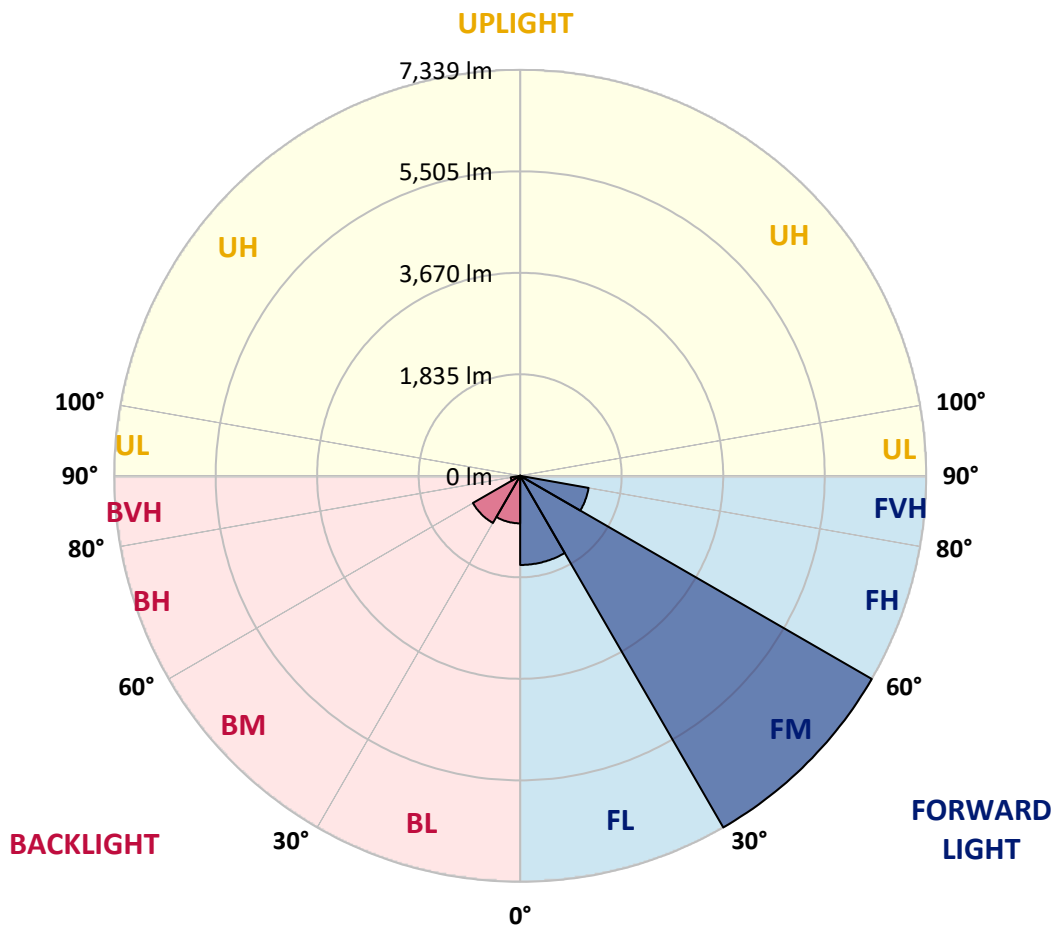
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1611.6	13.2			
FM (30°-60°)	7339.3	60.0			
FH (60°-80°)	1255.9	10.3			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	859.3	7.0	B2/1000		
BM (30°-60°)	985.4	8.1	B1/1000		
BH (60°-80°)	173.5	1.4	B1/500		G1/500
BVH (80°-90°)	6.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0
2.5°	4373.2	4334.5	4373.2	4377.8	4405.2	4430.2	4414.3	4450.8	4430.2	4407.4	4400.6
5°	4019.8	4072.3	4074.5	4156.6	4138.4	4288.9	4355.0	4336.8	4448.5	4441.6	4425.7
7.5°	3702.9	3682.4	3709.7	3805.5	3926.3	4099.6	4195.4	4193.1	4352.7	4466.7	4455.3
10°	3408.8	3406.5	3463.5	3538.7	3641.3	3823.7	3956.0	4022.1	4270.6	4443.9	4469.0
12.5°	3210.4	3201.3	3262.8	3324.4	3486.3	3627.6	3796.4	3828.3	4113.3	4364.1	4405.2
15°	3080.4	3100.9	3105.5	3224.1	3326.7	3513.6	3645.9	3712.0	4040.3	4300.3	4457.6
17.5°	3057.6	3085.0	3087.3	3185.3	3294.8	3452.1	3568.4	3657.3	3978.8	4332.2	4459.9
20°	3103.2	3087.3	3100.9	3162.5	3269.7	3420.2	3588.9	3618.5	3958.3	4348.2	4485.0
22.5°	3233.2	3228.6	3194.4	3244.6	3319.8	3477.2	3636.8	3682.4	4017.5	4430.2	4505.5
25°	3376.8	3401.9	3370.0	3363.2	3415.6	3570.6	3782.7	3842.0	4215.9	4578.5	4569.3
27.5°	3645.9	3620.8	3620.8	3588.9	3575.2	3650.4	3940.0	4038.1	4437.1	4770.0	4642.3
30°	3903.5	3930.9	3910.4	3921.8	3830.6	3823.7	4163.5	4284.3	4829.3	5061.8	4797.3
32.5°	4311.7	4275.2	4309.4	4279.8	4158.9	4035.8	4466.7	4592.1	5303.5	5397.0	5029.9
35°	4651.4	4635.5	4781.4	4776.8	4580.7	4459.9	4788.2	4975.2	5634.1	5798.3	5303.5
37.5°	5134.8	5105.2	5271.6	5351.4	5175.8	4995.7	5248.8	5465.4	5942.0	6119.8	5584.0
40°	5631.9	5707.1	5930.6	6062.8	5875.8	5636.4	5812.0	5878.1	6147.2	6329.6	5775.5
42.5°	6261.2	6370.6	6598.6	6712.6	6696.7	6436.7	6384.3	6382.0	6295.4	6270.3	5916.9
45°	6865.4	6824.4	7175.5	7424.0	7624.7	7549.4	6936.1	6867.7	6530.2	6359.2	5953.4
47.5°	7129.9	7116.2	7355.6	7798.0	8482.0	8575.5	7738.7	7474.2	6927.0	6733.2	6151.7
50°	6787.9	6858.6	7095.7	7585.9	8634.8	9348.4	8723.7	8368.0	7389.8	7189.2	6621.4
52.5°	5670.6	5718.5	5944.2	6566.7	8114.9	9804.5	9667.6	9462.4	8240.3	7907.4	7440.0
54°	4662.8	4790.5	4913.6	5538.4	7189.2	9551.4	10185.2	10027.9	8794.4	8504.8	7955.3
55°	4060.9	4136.1	4225.0	4847.5	6548.5	9122.7	10125.9	10139.6	9166.0	8691.8	8301.9
57.5°	2966.4	3018.9	2927.7	3203.5	4496.4	7408.1	9261.8	9631.2	9667.6	8972.2	8513.9
60°	2266.4	2289.2	2186.6	2229.9	2795.4	5084.6	7164.1	7608.7	8721.4	7841.3	7212.0
62.5°	1758.0	1762.5	1760.2	1835.5	1926.7	2991.5	4480.4	4874.9	6012.6	5568.0	4897.7
65°	1295.1	1274.6	1311.1	1539.1	1644.0	1881.1	2359.9	2647.2	3267.4	2758.9	1972.3
67.5°	839.1	845.9	882.4	1144.6	1409.1	1443.3	1452.4	1429.6	1431.9	788.9	494.8
70°	503.9	515.3	503.9	647.5	1007.8	1035.2	946.2	923.4	720.5	187.0	184.7
72.5°	298.7	282.7	253.1	278.2	419.5	501.6	451.5	449.2	282.7	109.4	109.4
75°	125.4	114.0	93.5	84.4	111.7	107.2	107.2	95.8	75.2	73.0	68.4
77.5°	25.1	25.1	18.2	20.5	27.4	31.9	38.8	38.8	45.6	45.6	43.3
80°	0.0	2.3	6.8	13.7	20.5	29.6	34.2	34.2	38.8	38.8	31.9
82.5°	0.0	2.3	6.8	13.7	18.2	27.4	34.2	34.2	38.8	41.0	34.2
85°	0.0	2.3	6.8	11.4	18.2	22.8	22.8	20.5	16.0	13.7	9.1
87.5°	0.0	0.0	2.3	4.6	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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°	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0	4396.0
2.5°	4416.6	4414.3	4359.6	4270.6	4250.1	4174.9	4165.8	4120.1	4145.2	4060.9	4051.7
5°	4380.1	4352.7	4286.6	4229.6	4063.1	3944.6	3851.1	3737.1	3671.0	3682.4	3639.0
7.5°	4432.5	4361.8	4245.6	4047.2	3844.3	3636.8	3525.0	3292.5	3208.1	3082.7	3064.5
10°	4377.8	4325.4	4145.2	3816.9	3536.4	3237.7	2975.5	2717.9	2521.8	2437.4	2419.2
12.5°	4373.2	4282.0	3981.1	3616.2	3210.4	2781.7	2401.0	2079.5	1885.6	1776.2	1751.1
15°	4302.6	4193.1	3796.4	3306.2	2745.2	2211.7	1796.7	1486.6	1338.4	1274.6	1292.8
17.5°	4309.4	4145.2	3611.7	2977.8	2286.9	1623.4	1226.7	1067.1	1028.3	1044.3	1044.3
20°	4302.6	4038.1	3388.2	2599.3	1751.1	1126.4	900.6	843.6	868.7	918.9	907.5
22.5°	4266.1	3987.9	3183.0	2200.3	1288.3	834.5	722.8	725.1	763.8	825.4	839.1
25°	4293.4	3876.2	2923.1	1796.7	939.4	665.8	627.0	643.0	684.0	729.6	738.8
27.5°	4272.9	3796.4	2651.8	1395.4	686.3	572.3	570.0	588.3	606.5	640.7	640.7
30°	4295.7	3723.4	2385.0	1037.4	565.5	524.4	515.3	529.0	547.2	554.1	551.8
32.5°	4380.1	3668.7	2077.2	775.2	499.3	478.8	478.8	478.8	476.5	485.7	487.9
35°	4564.8	3677.8	1805.8	599.7	456.0	440.1	433.2	424.1	419.5	424.1	426.4
37.5°	4765.4	3673.2	1525.4	510.7	424.1	410.4	394.5	380.8	378.5	383.1	376.2
40°	4854.3	3716.6	1265.5	458.3	394.5	378.5	353.4	342.0	344.3	348.9	344.3
42.5°	4975.2	3730.3	1096.7	417.3	367.1	342.0	326.1	312.4	310.1	316.9	314.7
45°	4972.9	3652.7	918.9	394.5	342.0	314.7	294.1	282.7	282.7	287.3	289.6
47.5°	5118.8	3641.3	788.9	373.9	323.8	296.4	271.3	262.2	259.9	259.9	255.4
50°	5458.6	3800.9	688.6	351.1	301.0	275.9	255.4	244.0	234.9	230.3	228.0
52.5°	6122.1	4298.0	611.1	323.8	275.9	255.4	237.1	228.0	216.6	205.2	202.9
54°	6765.1	4811.0	606.5	301.0	255.4	241.7	225.7	221.2	207.5	191.5	187.0
55°	7054.6	5109.7	622.5	282.7	241.7	232.6	218.9	214.3	200.6	182.4	180.1
57.5°	7294.1	5226.0	613.3	234.9	218.9	216.6	205.2	198.4	182.4	157.3	152.8
60°	5871.3	3951.4	440.1	207.5	200.6	196.1	187.0	182.4	161.9	134.5	132.2
62.5°	3709.7	2273.3	280.5	182.4	175.6	168.7	157.3	152.8	134.5	107.2	100.3
65°	1580.1	941.7	189.2	161.9	150.5	139.1	130.0	123.1	107.2	79.8	77.5
67.5°	410.4	335.2	157.3	141.4	125.4	109.4	102.6	91.2	73.0	54.7	52.4
70°	184.7	168.7	132.2	118.6	100.3	84.4	75.2	63.8	47.9	36.5	34.2
72.5°	109.4	107.2	100.3	88.9	75.2	63.8	54.7	43.3	31.9	20.5	20.5
75°	68.4	66.1	68.4	61.6	52.4	47.9	41.0	29.6	18.2	9.1	9.1
77.5°	41.0	41.0	41.0	38.8	36.5	36.5	29.6	18.2	9.1	2.3	2.3
80°	31.9	31.9	34.2	31.9	31.9	31.9	25.1	13.7	4.6	0.0	0.0
82.5°	31.9	34.2	38.8	36.5	31.9	27.4	22.8	13.7	4.6	0.0	0.0
85°	9.1	6.8	11.4	16.0	22.8	20.5	16.0	11.4	4.6	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	2.3	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)