

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: P528995

Luminaire Tested: **GALN-SA4A-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528995
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-SA4A-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA 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: 11965 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

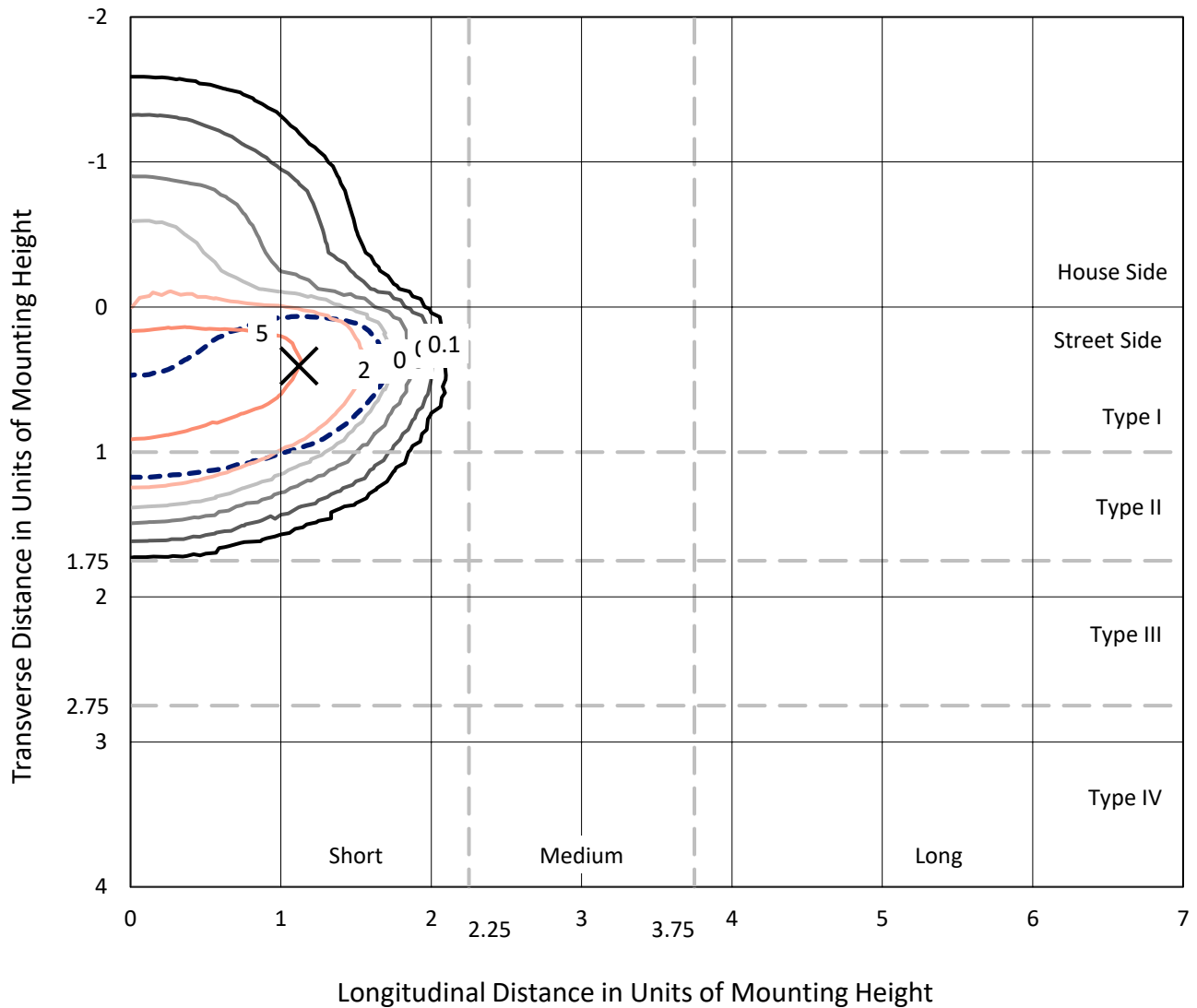
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

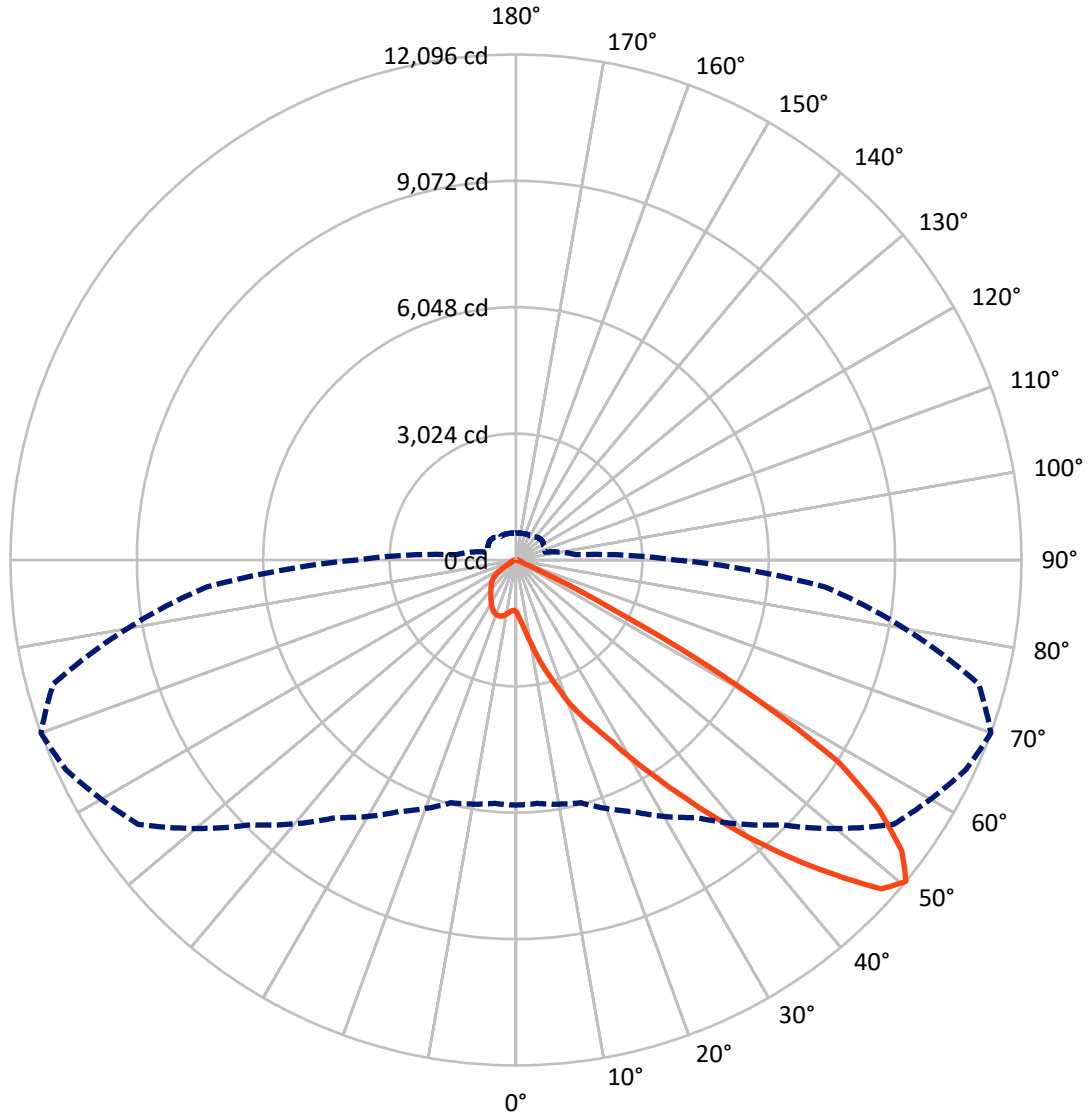
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	1671.0	0.0	1671.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10294.0	0.0	10294.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	11965.0	0.0	11965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.3
10°-20°	697.1	5.8
20°-30°	1462.4	12.2
30°-40°	2520.7	21.1
40°-50°	3684.1	30.8
50°-60°	2869.3	24.0
60°-70°	486.1	4.1
70°-80°	66.8	0.6
80°-90°	17.3	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°	11965.0	100.0
0°-180°	11965.0	100.0

Coefficient of Utilization



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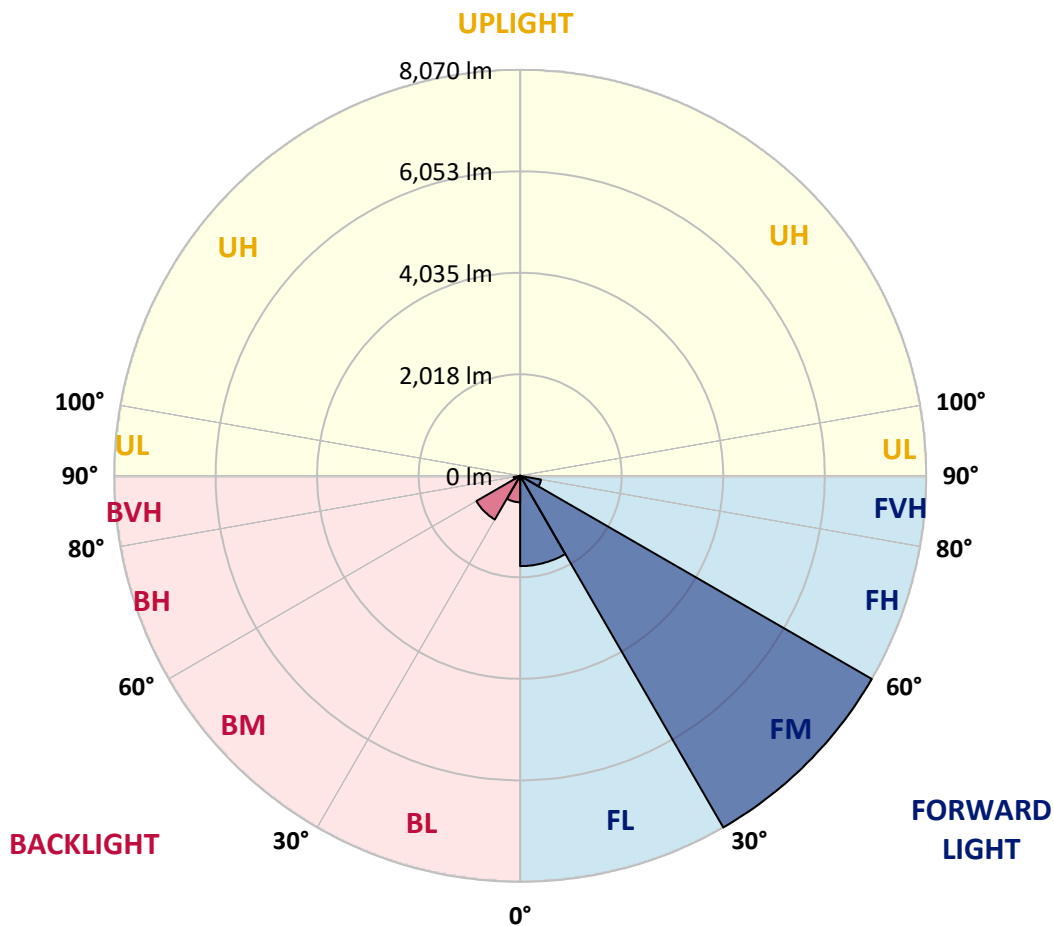
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1794.9	15.0			
FM (30°-60°)	8070.2	67.4			
FH (60°-80°)	420.9	3.5			G0/660
FVH (80°-90°)	8.0	0.1			G0/10
BL (0°-30°)	525.8	4.4	B2/1000		
BM (30°-60°)	1003.9	8.4	B2/2500		
BH (60°-80°)	132.0	1.1	B1/500		G1/500
BVH (80°-90°)	9.3	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3
2.5°	1622.9	1611.1	1585.6	1538.4	1518.7	1471.5	1443.9	1390.8	1357.4	1320.0	1278.7
5°	2285.9	2224.9	2187.5	2134.4	1979.0	1882.6	1723.3	1587.5	1524.6	1455.7	1361.3
7.5°	2970.5	2931.1	2880.0	2765.9	2659.7	2459.0	2185.6	1886.5	1758.7	1640.6	1453.8
10°	3537.0	3426.9	3421.0	3336.4	3220.3	2980.3	2651.8	2280.0	2051.8	1878.7	1585.6
12.5°	3932.4	3832.1	3877.4	3867.5	3759.3	3539.0	3159.3	2667.5	2429.5	2160.0	1721.3
15°	4292.4	4251.1	4237.4	4225.6	4182.3	4019.0	3678.7	3139.7	2795.4	2470.8	1874.7
17.5°	4644.6	4538.3	4589.5	4599.3	4595.4	4447.8	4129.2	3588.2	3182.9	2799.3	2036.1
20°	4957.4	4967.2	4898.3	4884.6	4872.8	4866.9	4556.0	4032.8	3659.0	3143.6	2246.5
22.5°	5358.7	5289.8	5350.8	5311.5	5234.7	5187.5	4949.5	4426.2	4072.1	3558.7	2461.0
25°	5832.8	5887.8	5744.2	5728.5	5643.9	5480.6	5266.2	4866.9	4469.5	3944.2	2693.1
27.5°	6417.0	6320.6	6283.2	6196.7	6043.3	5974.4	5722.6	5321.3	4949.5	4349.5	2917.4
30°	6918.7	6893.1	6706.2	6603.9	6470.1	6468.2	6116.0	5937.0	5575.1	4984.9	3226.2
32.5°	7327.8	7215.7	7146.9	7076.0	6967.8	6997.3	6700.3	6605.9	6241.9	5575.1	3590.1
35°	7601.3	7520.6	7479.3	7371.1	7339.6	7471.4	7347.5	7308.2	7009.1	6405.2	4017.0
37.5°	7687.8	7713.4	7705.5	7569.8	7636.7	7992.7	8152.1	8049.8	7892.4	7280.6	4479.3
40°	7764.6	7782.3	7742.9	7902.3	8093.1	8498.3	9074.7	8905.5	8846.5	8167.8	5122.6
42.5°	7807.8	7794.1	7794.1	8069.5	8358.6	9173.1	9965.9	9853.7	9808.5	9112.1	5866.2
45°	7620.9	7487.2	7630.8	8004.6	8586.8	9505.5	10678.0	10833.4	10768.5	10235.4	6735.7
47.5°	6922.6	7005.2	7085.9	7585.5	8309.5	9403.2	11114.7	11643.9	11763.9	11179.6	7306.2
50°	5866.2	5848.5	6015.7	6645.2	7524.6	8962.6	11030.1	11878.0	12096.3	11462.9	7426.2
52.5°	4266.9	4396.7	4577.7	5203.3	6245.9	7821.6	9938.3	11274.0	11565.2	11114.7	7347.5
55°	2484.6	2341.0	2748.2	3277.4	4261.0	5899.6	8401.9	9993.4	10532.4	10481.3	6950.1
57.5°	995.4	963.9	1103.6	1487.2	2222.9	3657.0	6110.1	8211.1	9074.7	9600.0	6108.2
60°	436.7	426.9	501.6	605.9	908.8	1685.9	3342.3	5106.9	6007.8	6708.2	4203.9
62.5°	314.8	310.8	348.2	385.6	480.0	733.8	1404.6	2057.7	2565.2	3098.3	1882.6
65°	253.8	263.6	289.2	308.9	354.1	407.2	495.7	572.5	702.3	727.9	415.1
67.5°	206.6	214.4	238.0	259.7	267.5	220.3	228.2	200.7	200.7	179.0	143.6
70°	151.5	153.4	181.0	206.6	165.2	88.5	155.4	155.4	139.7	133.8	122.0
72.5°	112.1	114.1	135.7	127.9	64.9	55.1	114.1	125.9	114.1	108.2	98.4
75°	82.6	84.6	70.8	29.5	27.5	35.4	66.9	86.6	82.6	80.7	74.8
77.5°	15.7	11.8	9.8	13.8	19.7	29.5	43.3	53.1	55.1	59.0	55.1
80°	2.0	2.0	5.9	11.8	21.6	31.5	45.2	51.1	53.1	55.1	51.1
82.5°	0.0	2.0	5.9	11.8	21.6	29.5	39.3	45.2	49.2	51.1	49.2
85°	0.0	2.0	3.9	9.8	17.7	21.6	19.7	13.8	11.8	13.8	9.8
87.5°	0.0	0.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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°	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3
2.5°	1255.1	1247.2	1219.7	1190.2	1164.6	1176.4	1164.6	1154.7	1158.7	1154.7	1150.8
5°	1323.9	1288.5	1229.5	1203.9	1182.3	1180.3	1174.4	1172.5	1174.4	1174.4	1156.7
7.5°	1388.8	1331.8	1268.8	1241.3	1215.7	1217.7	1203.9	1203.9	1202.0	1192.1	1188.2
10°	1487.2	1410.5	1329.8	1280.6	1249.2	1243.3	1229.5	1215.7	1215.7	1215.7	1196.1
12.5°	1595.4	1499.0	1388.8	1331.8	1294.4	1264.9	1243.3	1239.3	1217.7	1213.8	1203.9
15°	1689.8	1567.9	1428.2	1349.5	1302.3	1262.9	1229.5	1207.9	1198.0	1192.1	1184.3
17.5°	1782.3	1626.9	1449.8	1349.5	1298.4	1253.1	1217.7	1198.0	1174.4	1178.4	1162.6
20°	1906.2	1689.8	1455.7	1323.9	1261.0	1217.7	1170.5	1160.7	1146.9	1135.1	1139.0
22.5°	2026.2	1735.1	1438.0	1292.5	1202.0	1150.8	1127.2	1115.4	1109.5	1099.7	1085.9
25°	2134.4	1784.3	1410.5	1235.4	1139.0	1101.6	1080.0	1078.0	1064.3	1064.3	1038.7
27.5°	2244.6	1802.0	1363.3	1168.5	1083.9	1062.3	1052.5	1048.5	1042.6	1028.8	1011.1
30°	2370.5	1807.9	1294.4	1099.7	1034.7	1011.1	1024.9	1034.7	1009.2	983.6	991.5
32.5°	2474.7	1794.1	1211.8	1034.7	999.3	987.5	1015.1	1024.9	995.4	967.9	954.1
35°	2600.6	1760.6	1131.1	983.6	963.9	987.5	1011.1	1011.1	952.1	918.7	910.8
37.5°	2791.5	1723.3	1056.4	940.3	926.6	975.7	1007.2	985.6	893.1	851.8	842.0
40°	2996.1	1699.7	983.6	897.0	906.9	956.1	973.8	906.9	812.5	786.9	779.0
42.5°	3293.1	1652.5	918.7	859.7	889.2	928.5	928.5	808.5	773.1	759.3	757.4
45°	3662.9	1619.0	861.6	828.2	863.6	873.4	842.0	757.4	731.8	727.9	729.8
47.5°	3843.9	1554.1	802.6	790.8	816.4	818.4	735.7	716.1	694.4	688.5	684.6
50°	3816.4	1438.0	725.9	741.6	777.0	757.4	670.8	674.8	655.1	653.1	643.3
52.5°	3623.6	1255.1	649.2	686.6	725.9	668.8	617.7	613.8	613.8	588.2	578.4
55°	3212.4	1011.1	556.7	603.9	651.1	562.6	548.8	544.9	535.1	511.5	505.6
57.5°	2543.6	741.6	419.0	470.2	552.8	478.0	476.1	458.4	432.8	415.1	415.1
60°	1512.8	426.9	263.6	287.2	365.9	387.5	430.8	422.9	379.7	352.1	344.3
62.5°	690.5	220.3	167.2	171.1	196.7	251.8	338.4	391.5	330.5	283.3	279.3
65°	232.1	163.3	137.7	131.8	135.7	151.5	202.6	277.4	263.6	218.4	210.5
67.5°	141.6	145.6	129.8	120.0	120.0	118.0	116.1	125.9	155.4	151.5	153.4
70°	122.0	133.8	120.0	108.2	104.3	98.4	82.6	68.9	59.0	68.9	72.8
72.5°	98.4	106.2	102.3	92.5	82.6	74.8	59.0	45.2	33.4	29.5	29.5
75°	72.8	78.7	82.6	70.8	63.0	53.1	43.3	29.5	17.7	11.8	11.8
77.5°	53.1	59.0	61.0	55.1	47.2	37.4	27.5	19.7	9.8	3.9	3.9
80°	45.2	53.1	59.0	55.1	49.2	35.4	25.6	13.8	7.9	2.0	2.0
82.5°	43.3	53.1	59.0	53.1	47.2	33.4	25.6	15.7	5.9	2.0	2.0
85°	9.8	13.8	17.7	21.6	25.6	25.6	19.7	11.8	5.9	2.0	2.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	2.0	2.0	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)