

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: P529071

Luminaire Tested: **GALN-SA4B-722-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-722-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9761 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

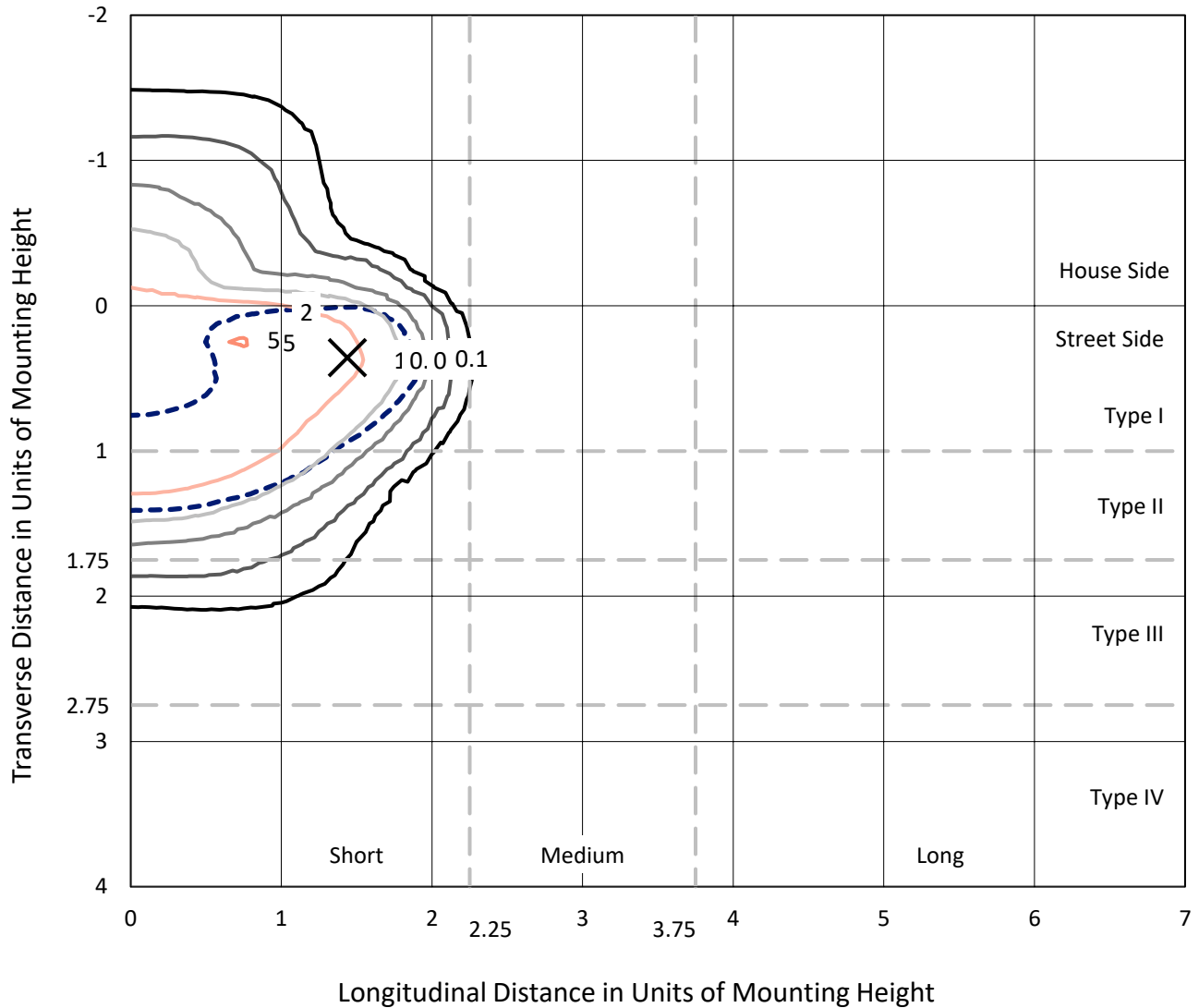
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

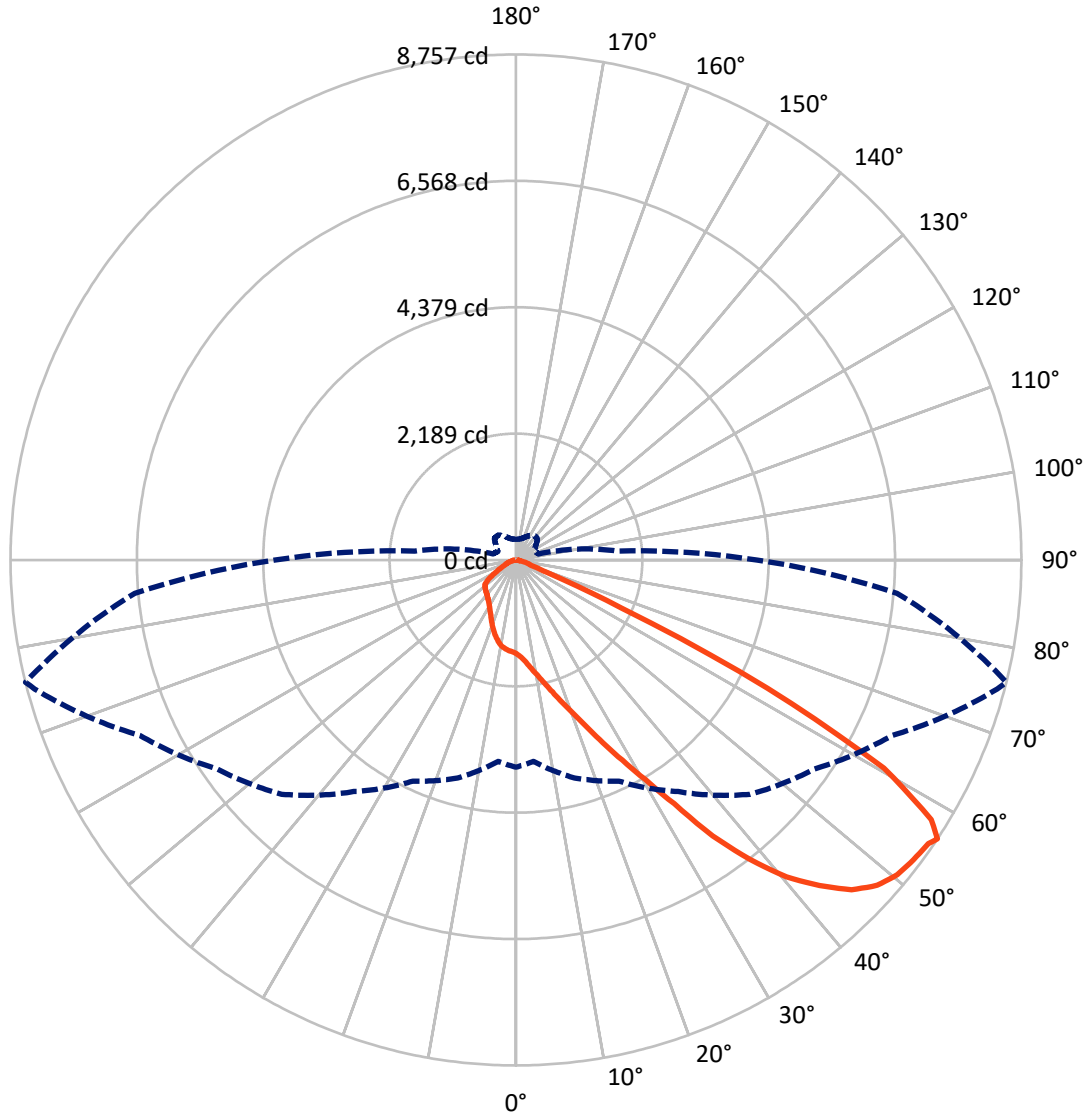
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1533.4	0.0	1533.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	8227.6	0.0	8227.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	9761.0	0.0	9761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	1.7
10°-20°	525.8	5.4
20°-30°	953.4	9.8
30°-40°	1644.2	16.8
40°-50°	2671.1	27.4
50°-60°	2815.5	28.8
60°-70°	860.2	8.8
70°-80°	110.3	1.1
80°-90°	16.8	0.2
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°	9761.0	100.0
0°-180°	9761.0	100.0

Coefficient of Utilization

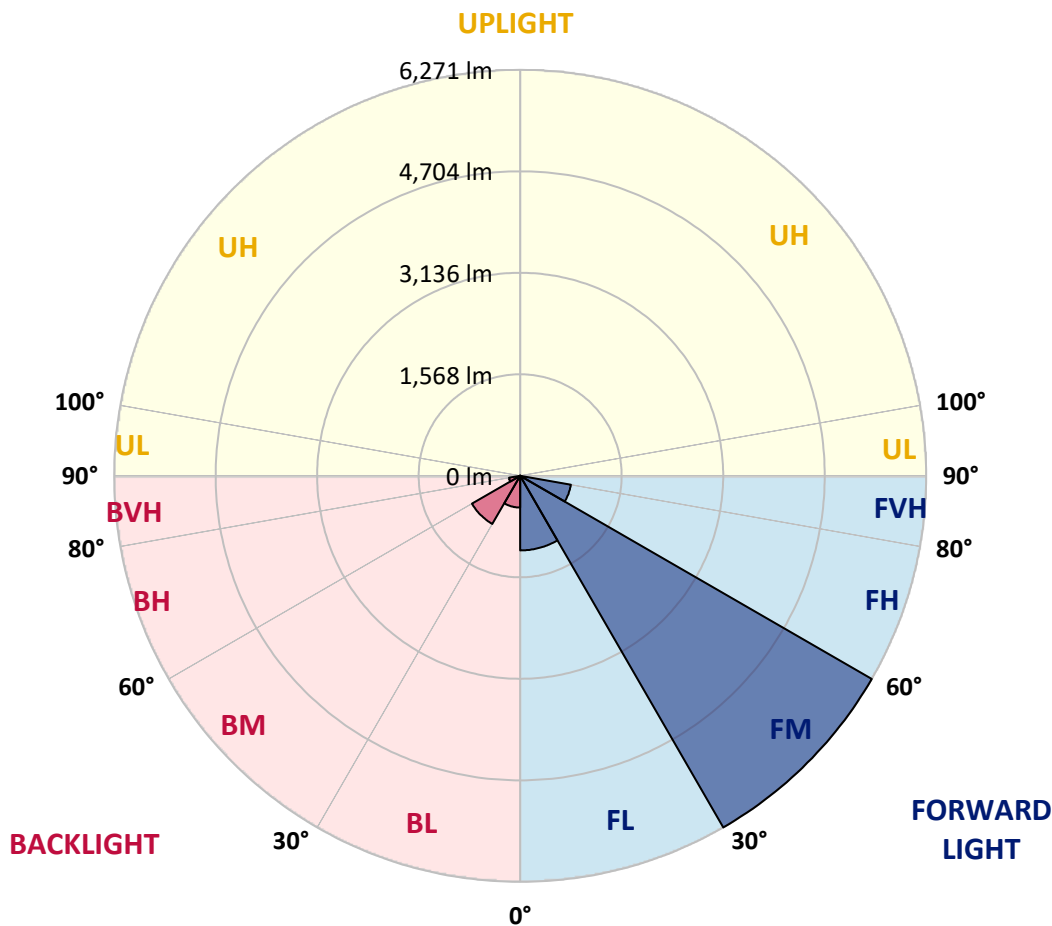


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.4	11.8			
FM (30°-60°)	6271.4	64.2			
FH (60°-80°)	795.6	8.2			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	490.5	5.0	B1/500		
BM (30°-60°)	859.4	8.8	B1/1000		
BH (60°-80°)	174.9	1.8	B1/500		G1/500
BVH (80°-90°)	8.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7
2.5°	1871.2	1828.0	1829.8	1826.3	1820.9	1801.1	1741.7	1732.7	1693.1	1682.3	1646.3
5°	2096.1	2058.4	2079.9	2047.6	2017.0	1999.0	1901.8	1856.8	1793.9	1770.5	1720.1
7.5°	2236.5	2218.5	2211.3	2213.1	2184.3	2139.3	2096.1	1997.2	1912.6	1894.6	1788.5
10°	2304.9	2294.1	2304.9	2299.5	2312.1	2317.4	2241.9	2182.5	2058.4	2027.8	1862.2
12.5°	2321.0	2342.6	2351.6	2375.0	2405.6	2457.8	2452.4	2371.4	2205.9	2186.1	1975.6
15°	2360.6	2378.6	2369.6	2407.4	2465.0	2553.2	2599.9	2587.3	2409.2	2373.2	2106.9
17.5°	2396.6	2364.2	2394.8	2470.4	2528.0	2662.9	2776.3	2828.4	2630.5	2589.1	2227.5
20°	2445.2	2436.2	2430.8	2468.6	2571.1	2751.1	2976.0	3071.3	2878.8	2835.6	2400.2
22.5°	2592.7	2594.5	2590.9	2535.2	2608.9	2812.2	3150.5	3386.2	3175.7	3139.7	2596.3
25°	2787.1	2763.7	2745.7	2700.7	2691.7	2868.0	3326.8	3771.3	3532.0	3506.8	2808.6
27.5°	2992.2	2992.2	2938.2	2896.8	2839.2	3006.6	3488.8	4145.5	3962.0	3927.8	2994.0
30°	3215.3	3227.9	3220.7	3132.5	3096.5	3157.7	3654.3	4624.1	4455.0	4411.8	3299.8
32.5°	3544.5	3517.6	3548.1	3474.4	3368.2	3422.2	3915.2	5052.3	5095.5	5034.3	3701.1
35°	3980.0	3963.8	3944.0	3823.4	3697.5	3740.7	4284.0	5579.5	5899.8	5869.2	4105.9
37.5°	4370.4	4361.4	4345.2	4262.5	4116.7	4168.9	4703.3	6128.3	6684.3	6583.5	4678.1
40°	4780.6	4829.2	4777.0	4703.3	4570.1	4685.3	5196.3	6454.0	7344.6	7222.2	5115.3
42.5°	5336.6	5298.8	5322.2	5187.3	5115.3	5241.2	5691.1	6779.6	7857.4	7711.6	5579.5
45°	5928.6	5930.4	5867.4	5824.2	5637.1	5773.8	5995.1	6959.5	8265.8	8152.5	5930.4
47.5°	6308.2	6306.4	6374.8	6443.2	6250.6	6115.7	6202.1	7130.5	8476.3	8424.1	6058.1
50°	6248.8	6266.8	6355.0	6610.5	6711.2	6529.5	6396.4	7080.1	8571.7	8566.3	6167.9
52.5°	5435.6	5494.9	5642.5	6011.3	6518.7	6743.6	6599.7	7173.7	8618.5	8627.5	6331.6
55°	4138.3	4170.7	4451.4	4899.4	5460.8	6230.8	6518.7	7247.4	8654.4	8670.6	6529.5
56°	3589.5	3503.2	3908.0	4226.5	4897.6	5739.6	6313.6	7189.8	8632.9	8757.0	6628.5
57.5°	2709.7	2652.1	2979.6	3377.2	4023.1	4912.0	5676.7	6918.2	8487.1	8485.3	6486.3
60°	1648.1	1590.5	1842.4	2076.3	2438.0	3024.6	3836.0	5509.3	7175.5	7326.6	5252.0
62.5°	980.6	1016.6	1264.9	1407.0	1524.0	1585.1	1984.6	3274.7	4787.8	4895.8	3258.5
65°	653.1	665.7	852.8	1086.8	1138.9	906.8	807.9	1326.1	2076.3	2009.8	1344.0
67.5°	403.0	431.8	572.2	816.9	905.0	662.1	383.2	494.8	572.2	572.2	388.6
70°	244.7	259.1	381.4	556.0	620.7	426.4	278.9	278.9	275.3	269.9	232.1
72.5°	117.0	125.9	194.3	286.1	291.5	224.9	215.9	235.7	230.3	228.5	192.5
75°	50.4	54.0	68.4	90.0	102.6	95.4	131.3	169.1	174.5	169.1	138.5
77.5°	16.2	18.0	25.2	32.4	34.2	41.4	55.8	70.2	81.0	75.6	68.4
80°	1.8	3.6	7.2	16.2	25.2	32.4	41.4	46.8	52.2	52.2	48.6
82.5°	1.8	1.8	7.2	14.4	23.4	30.6	39.6	45.0	52.2	54.0	50.4
85°	0.0	1.8	5.4	12.6	19.8	19.8	18.0	18.0	12.6	12.6	12.6
87.5°	0.0	0.0	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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°	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7	1624.7
2.5°	1639.1	1635.5	1586.9	1556.4	1540.2	1507.8	1488.0	1473.6	1462.8	1450.2	1452.0
5°	1660.7	1648.1	1567.2	1511.4	1444.8	1408.8	1378.2	1353.0	1336.9	1333.3	1326.1
7.5°	1721.9	1655.3	1533.0	1432.2	1347.6	1311.7	1284.7	1268.5	1275.7	1259.5	1272.1
10°	1768.7	1669.7	1491.6	1345.8	1261.3	1234.3	1219.9	1232.5	1250.5	1243.3	1234.3
12.5°	1826.3	1684.1	1425.0	1263.1	1183.9	1164.1	1189.3	1212.7	1248.7	1263.1	1245.1
15°	1891.0	1700.3	1340.4	1167.7	1117.3	1133.5	1176.7	1218.1	1254.1	1272.1	1282.9
17.5°	1970.2	1694.9	1257.7	1092.2	1054.4	1101.1	1153.3	1191.1	1245.1	1272.1	1264.9
20°	2044.0	1676.9	1165.9	1016.6	1018.4	1061.6	1104.7	1165.9	1194.7	1230.7	1218.1
22.5°	2114.1	1644.5	1070.6	964.4	964.4	1031.0	1052.6	1092.2	1117.3	1135.3	1133.5
25°	2213.1	1583.4	991.4	914.0	935.6	978.8	996.8	1009.4	998.6	1013.0	1014.8
27.5°	2283.3	1520.4	926.6	869.0	908.6	941.0	935.6	928.4	903.2	883.4	896.0
30°	2358.8	1446.6	870.8	838.5	860.0	888.8	867.2	845.7	806.1	773.7	775.5
32.5°	2466.8	1412.4	822.3	802.5	831.3	834.9	811.5	779.1	739.5	708.9	707.1
35°	2668.3	1390.8	780.9	779.1	784.5	786.3	762.9	723.3	707.1	681.9	690.9
37.5°	2869.8	1380.0	752.1	744.9	743.1	744.9	717.9	680.1	710.7	708.9	712.5
40°	3127.1	1428.6	710.7	701.7	703.5	703.5	669.3	658.5	712.5	717.9	719.7
42.5°	3388.0	1489.8	683.7	654.9	662.1	662.1	644.1	631.5	669.3	633.3	627.9
45°	3614.7	1579.8	654.9	608.2	626.1	635.1	629.7	608.2	584.8	523.6	523.6
47.5°	3688.5	1658.9	620.7	563.2	577.6	617.1	601.0	556.0	514.6	464.2	460.6
50°	3818.0	1745.3	593.8	511.0	541.6	590.2	574.0	529.0	482.2	446.2	448.0
52.5°	3951.2	1844.2	543.4	449.8	487.6	568.6	568.6	518.2	446.2	421.0	417.4
55°	4150.9	1840.6	453.4	368.8	435.4	536.2	545.2	464.2	399.4	379.6	379.6
56°	4179.7	1757.9	408.4	345.5	412.0	527.2	529.0	449.8	381.4	359.9	359.9
57.5°	3963.8	1586.9	358.1	316.7	383.2	511.0	512.8	437.2	367.0	336.5	332.9
60°	3049.7	1074.2	298.7	282.5	347.3	460.6	469.6	397.6	322.1	298.7	296.9
62.5°	1721.9	595.6	262.7	255.5	298.7	392.2	419.2	347.3	273.5	260.9	264.5
65°	786.3	327.5	221.3	206.9	241.1	302.3	338.3	286.1	224.9	210.5	210.5
67.5°	287.9	223.1	188.9	163.7	169.1	196.1	219.5	185.3	149.3	127.7	133.1
70°	205.1	187.1	165.5	142.1	131.3	127.7	125.9	104.4	73.8	57.6	61.2
72.5°	165.5	154.7	138.5	120.6	102.6	86.4	73.8	54.0	34.2	23.4	21.6
75°	118.8	113.4	100.8	86.4	72.0	61.2	50.4	34.2	18.0	9.0	9.0
77.5°	61.2	61.2	59.4	54.0	45.0	36.0	28.8	19.8	10.8	3.6	3.6
80°	46.8	50.4	52.2	46.8	41.4	32.4	23.4	14.4	7.2	1.8	1.8
82.5°	45.0	52.2	55.8	48.6	41.4	30.6	23.4	14.4	7.2	1.8	1.8
85°	10.8	10.8	16.2	18.0	23.4	25.2	19.8	12.6	5.4	1.8	1.8
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	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)