

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637898

Luminaire Tested: GWS-SA4D-760-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25116.8 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

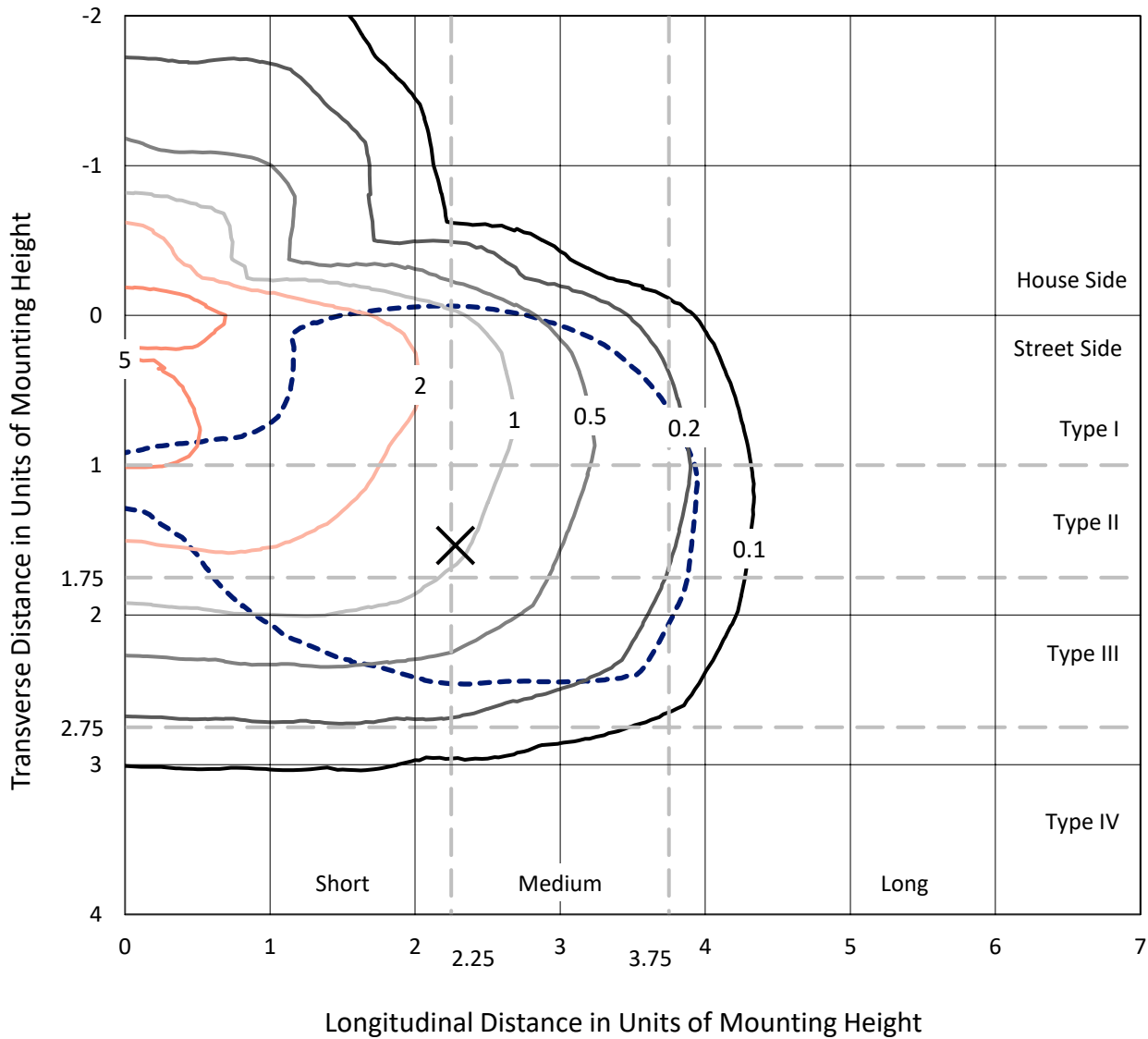


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Iso-Footcandle Lines of Horizontal Illumination

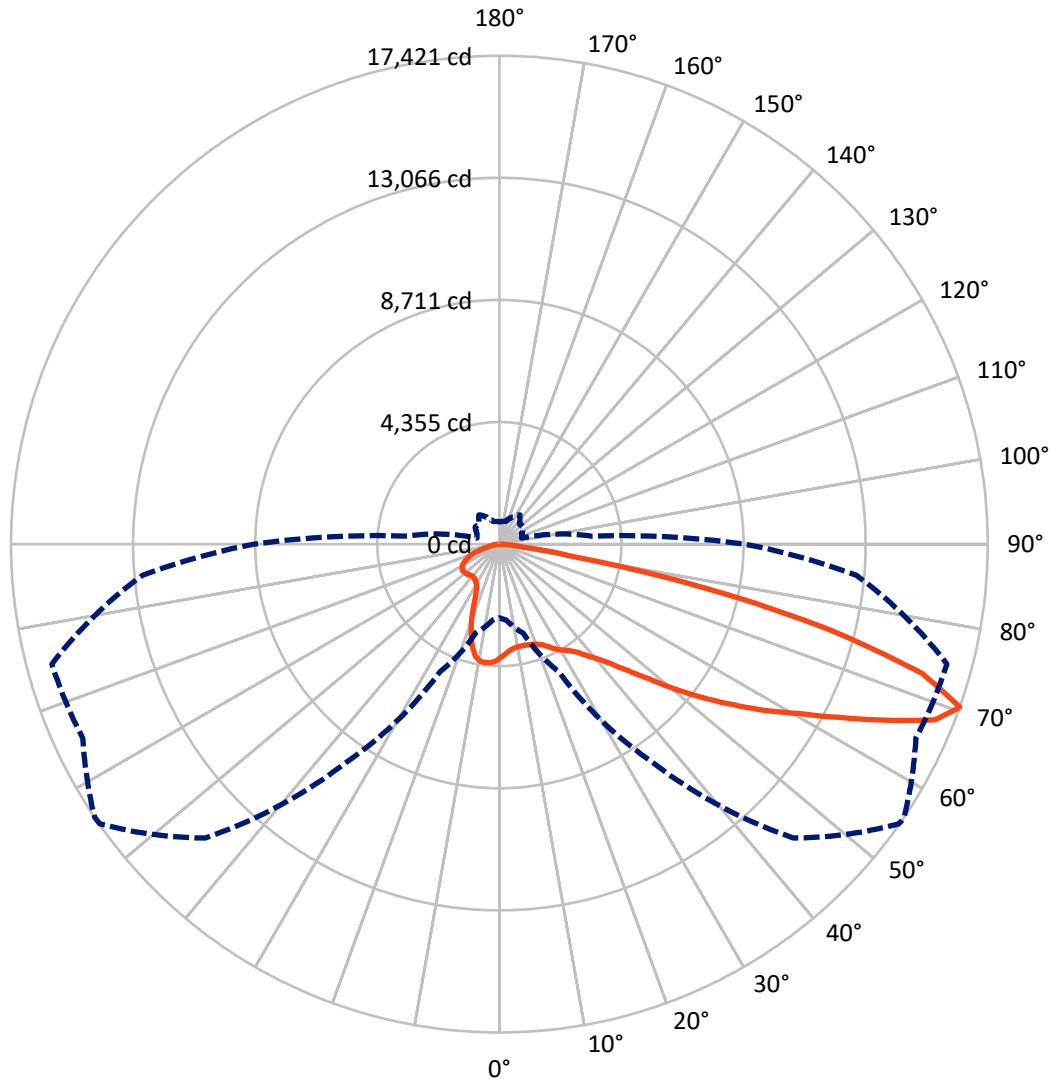
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4828.7	0.0	4828.7
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	20288.1	0.0	20288.1
	% Fixture	80.8	0.0	80.8
Total	Lumens	25116.8	0.0	25116.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.2	1.5
10°-20°	1016.5	4.0
20°-30°	1680.6	6.7
30°-40°	2512.8	10.0
40°-50°	3739.3	14.9
50°-60°	5316.3	21.2
60°-70°	6584.4	26.2
70°-80°	3635.7	14.5
80°-90°	256.1	1.0
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°	25116.8	100.0
0°-180°	25116.8	100.0

Coefficient of Utilization



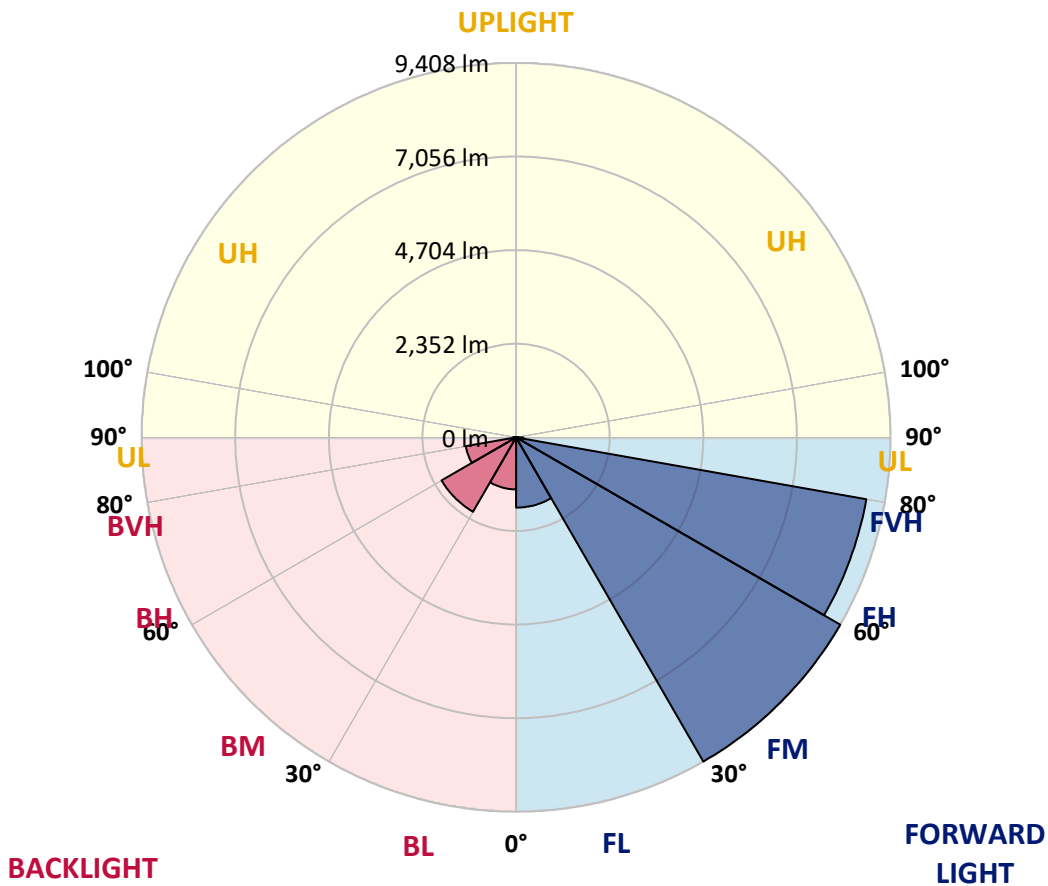
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.2	7.0			
FM (30°-60°)	9408.4	37.5			
FH (60°-80°)	8936.6	35.6			G4/12000
FVH (80°-90°)	177.9	0.7			G2/225
BL (0°-30°)	1307.2	5.2	B3/2500		
BM (30°-60°)	2160.0	8.6	B2/2500		
BH (60°-80°)	1283.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	78.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2
2.5°	3793.9	3772.6	3797.4	3809.8	3841.7	3887.7	3928.5	3930.3	3951.5	4002.9	4052.5
5°	3622.1	3611.4	3618.5	3655.7	3689.4	3747.8	3809.8	3815.1	3875.3	3976.3	4075.5
7.5°	3489.2	3475.1	3501.6	3549.5	3592.0	3657.5	3739.0	3746.1	3831.1	3983.4	4135.7
10°	3297.9	3287.3	3336.9	3400.7	3492.8	3600.8	3708.9	3717.7	3829.3	4029.4	4242.0
12.5°	3214.7	3214.7	3236.0	3296.2	3397.1	3540.6	3703.5	3717.7	3857.6	4100.3	4378.4
15°	3344.0	3352.8	3335.1	3331.6	3372.3	3508.7	3710.6	3731.9	3910.8	4172.9	4513.0
17.5°	3604.4	3613.2	3567.2	3494.5	3453.8	3538.8	3737.2	3760.2	3967.4	4252.6	4658.2
20°	3969.2	3979.8	3878.9	3767.3	3627.4	3625.6	3788.6	3809.8	4040.1	4339.4	4812.3
22.5°	4396.1	4403.2	4275.6	4098.5	3884.2	3786.8	3877.1	3898.4	4133.9	4459.8	4978.8
25°	4890.2	4911.5	4757.4	4500.6	4210.1	4008.2	4024.1	4048.9	4302.2	4621.0	5175.4
27.5°	5418.0	5444.6	5267.5	4984.1	4583.8	4252.6	4213.6	4234.9	4481.1	4720.2	5279.9
30°	5958.3	5977.7	5800.6	5476.5	4985.9	4528.9	4373.1	4385.4	4559.0	4768.0	5386.2
32.5°	6558.7	6542.7	6372.7	5999.0	5449.9	4860.1	4521.8	4518.3	4645.8	4863.7	5538.5
35°	7121.9	7145.0	6964.3	6551.6	5960.0	5269.3	4745.0	4730.8	4830.0	5019.5	5752.8
37.5°	7803.8	7796.7	7580.7	7134.3	6471.9	5660.7	5058.5	5033.7	5069.1	5262.2	6052.1
40°	8290.9	8340.5	8200.6	7784.3	7070.6	6142.5	5425.1	5370.2	5379.1	5561.5	6452.4
42.5°	8689.4	8735.5	8749.6	8484.0	7756.0	6737.6	5882.1	5827.2	5832.5	6091.1	6944.8
45°	8995.8	9057.8	9258.0	9180.0	8528.2	7424.8	6500.2	6443.6	6447.1	6734.0	7539.9
47.5°	9121.6	9188.9	9594.5	9780.5	9348.3	8246.6	7268.9	7185.7	7198.1	7515.1	8220.1
50°	9080.9	9171.2	9720.3	10242.8	10035.5	9082.6	8188.2	8129.7	8081.9	8542.4	8958.6
52.5°	8730.2	8829.3	9707.9	10536.8	10597.0	9872.6	9137.5	9103.9	9093.3	9633.5	9784.0
55°	7697.6	7864.1	9281.0	10614.7	11036.2	10616.5	10166.6	10109.9	10164.8	10802.4	10618.2
57.5°	7125.5	7249.5	8445.0	10527.9	11395.8	11324.9	11193.9	11199.2	11261.2	12072.4	11629.6
60°	6799.6	6944.8	7981.0	10290.6	11741.2	12185.7	12269.0	12269.0	12380.6	13441.5	12656.9
62.5°	6367.4	6514.4	7547.0	9833.6	12060.0	13198.9	13620.4	13615.1	13659.4	14909.8	13661.1
65°	5490.7	5627.0	6675.6	9112.7	12215.8	14314.7	15156.0	15140.1	15051.5	16217.0	14325.3
67.5°	3986.9	4116.2	5113.4	7741.8	11654.4	15214.5	16737.7	16744.8	16215.2	17040.6	14360.8
70°	2628.4	2717.0	3287.3	5028.4	9477.6	14826.6	17400.1	17421.4	16394.1	16526.9	12780.9
72.5°	1640.1	1702.1	2052.8	2998.6	5600.5	11735.9	15699.8	15758.2	14748.6	14523.7	10501.3
75°	1089.3	1131.8	1365.6	1748.2	2591.2	6351.5	11934.2	12122.0	11820.9	11385.2	7316.8
77.5°	655.3	690.8	869.7	1110.5	1147.7	2481.4	6966.1	7451.4	7493.9	5944.1	3064.1
80°	299.3	340.1	480.0	634.1	611.1	864.3	2456.6	2570.0	3032.3	1888.1	967.1
82.5°	177.1	194.8	318.8	315.3	260.4	419.8	883.8	906.8	770.5	690.8	412.7
85°	70.8	83.2	134.6	118.7	95.6	136.4	333.0	348.9	334.8	301.1	152.3
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	30.1	31.9	46.1	83.2	46.1
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°	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2	4054.2
2.5°	4084.3	4073.7	4126.9	4167.6	4185.3	4203.0	4187.1	4181.8	4181.8	4146.3	4128.6
5°	4128.6	4133.9	4206.6	4240.2	4240.2	4226.0	4183.5	4153.4	4142.8	4096.7	4084.3
7.5°	4211.9	4234.9	4302.2	4300.4	4250.8	4172.9	4066.6	3985.2	3910.8	3878.9	3859.4
10°	4348.3	4378.4	4424.4	4350.0	4211.9	4006.4	3781.5	3604.4	3498.1	3413.1	3413.1
12.5°	4504.1	4532.5	4523.6	4351.8	4066.6	3682.3	3358.2	3154.5	3005.7	2927.8	2927.8
15°	4660.0	4683.0	4587.4	4270.3	3763.8	3251.9	2897.7	2653.2	2523.9	2451.3	2451.3
17.5°	4817.6	4815.8	4613.9	4082.6	3368.8	2775.4	2428.3	2238.8	2194.5	2182.1	2180.3
20°	4969.9	4929.2	4580.3	3769.1	2910.1	2295.5	2075.8	2088.2	2153.8	2182.1	2185.6
22.5°	5141.7	5040.8	4481.1	3368.8	2389.3	1962.5	1976.6	2079.4	2175.0	2217.5	2222.8
25°	5317.1	5136.4	4314.6	2899.4	1953.6	1840.3	1950.1	2065.2	2173.2	2228.1	2233.5
27.5°	5387.9	5136.4	4031.2	2355.7	1721.6	1788.9	1909.3	2020.9	2134.3	2198.0	2210.4
30°	5446.4	5092.2	3634.5	1865.1	1625.9	1739.3	1843.8	1946.5	2058.1	2136.0	2150.2
32.5°	5527.9	5053.2	3154.5	1567.5	1581.7	1691.5	1764.1	1850.9	1951.8	2003.2	1997.9
35°	5623.5	4993.0	2575.3	1425.8	1544.5	1650.7	1702.1	1753.5	1707.4	1705.6	1711.0
37.5°	5759.9	4939.8	2070.5	1362.0	1519.7	1622.4	1664.9	1555.1	1491.3	1464.8	1454.1
40°	5956.5	4918.6	1633.0	1324.8	1516.1	1620.6	1590.5	1420.5	1333.7	1241.6	1239.8
42.5°	6204.5	4902.6	1349.6	1307.1	1528.5	1661.4	1487.8	1331.9	1153.0	1112.3	1108.8
45°	6523.3	4877.8	1207.9	1303.6	1558.6	1693.3	1477.2	1209.7	1087.5	1069.8	1069.8
47.5°	6907.6	4838.9	1144.2	1303.6	1592.3	1679.1	1445.3	1183.2	1057.4	1076.9	1089.3
50°	7348.6	4789.3	1110.5	1300.0	1625.9	1679.1	1378.0	1177.8	1050.3	1151.3	1192.0
52.5°	7819.8	4732.6	1087.5	1285.9	1649.0	1680.9	1381.5	1195.5	1057.4	1169.0	1202.6
55°	8340.5	4723.7	1055.6	1255.8	1656.1	1634.8	1390.4	1234.5	1068.0	1059.2	1060.9
57.5°	8997.6	4830.0	1032.6	1211.5	1627.7	1540.9	1408.1	1262.9	1055.6	1057.4	1069.8
60°	9684.8	5030.2	1052.1	1169.0	1569.3	1452.4	1420.5	1248.7	995.4	967.1	970.6
62.5°	10269.3	5182.5	1068.0	1149.5	1484.3	1374.4	1408.1	1216.8	961.8	954.7	970.6
65°	10513.7	5056.7	1029.1	1108.8	1360.3	1278.8	1381.5	1176.1	933.4	906.8	908.6
67.5°	10242.8	4466.9	952.9	1018.4	1220.3	1156.6	1339.0	1122.9	894.4	862.6	855.5
70°	8749.6	3282.0	821.8	875.0	1050.3	1013.1	1273.5	1053.9	832.5	809.4	793.5
72.5°	7051.1	2323.8	681.9	696.1	823.6	853.7	1160.1	967.1	761.6	696.1	673.0
75°	4907.9	1459.5	568.5	554.4	595.1	651.8	905.1	802.3	657.1	588.0	566.8
77.5°	2111.3	749.2	444.6	437.5	396.7	451.7	694.3	669.5	550.8	471.1	458.7
80°	706.7	433.9	320.6	308.2	263.9	317.0	488.8	534.9	432.2	348.9	327.7
82.5°	354.2	251.5	203.7	184.2	177.1	200.1	288.7	333.0	299.3	240.9	203.7
85°	173.6	143.5	111.6	109.8	92.1	86.8	120.4	141.7	134.6	99.2	93.9
87.5°	63.8	56.7	35.4	28.3	17.7	12.4	7.1	7.1	5.3	5.3	5.3
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)