

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: P638558

Luminaire Tested: GWS-SA4F-722-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638558
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-SA4F-722-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25478.3 lumens
Efficiency: N/A
Efficacy: 113.1 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): 225.3
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

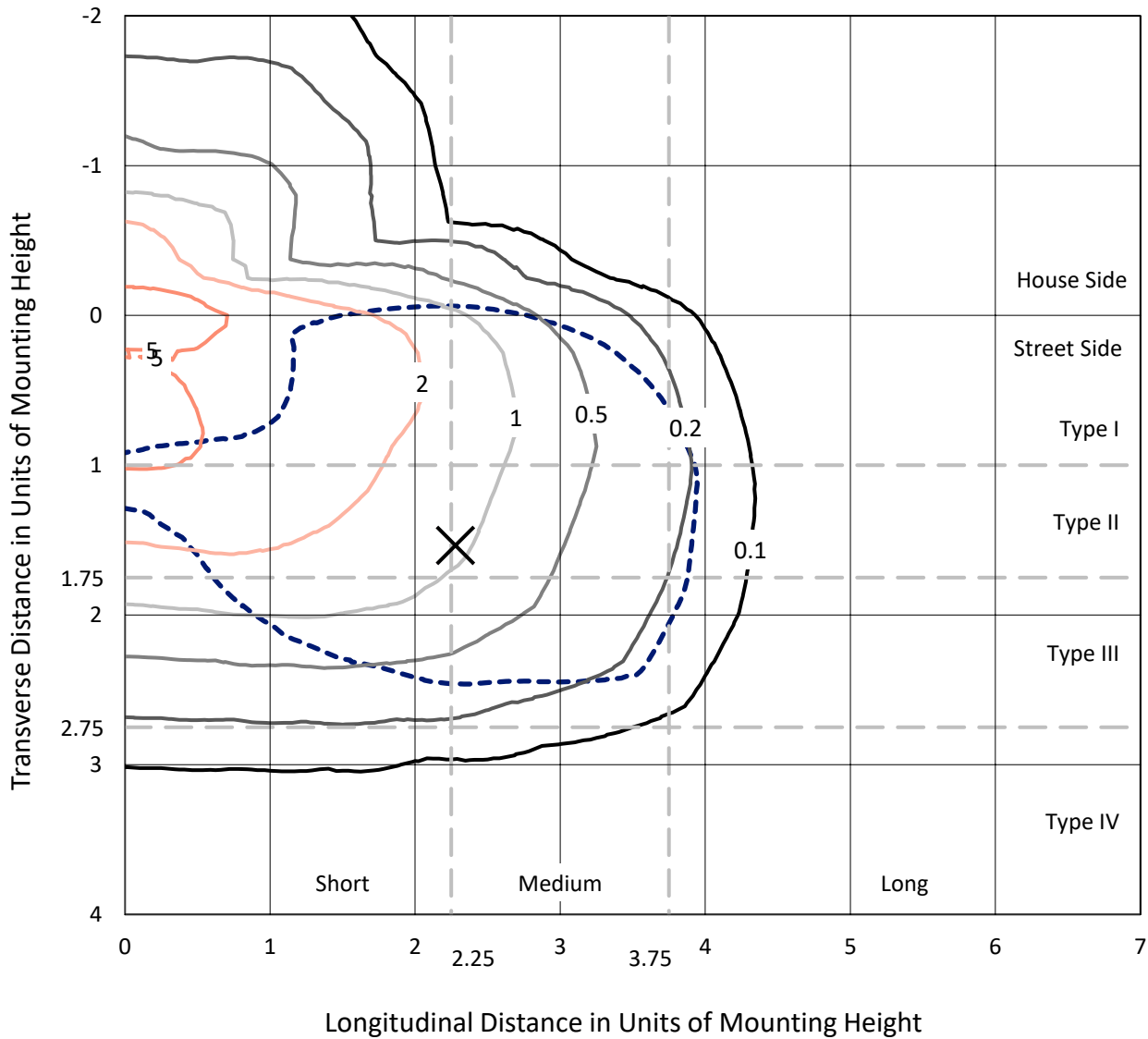


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Iso-Footcandle Lines of Horizontal Illumination

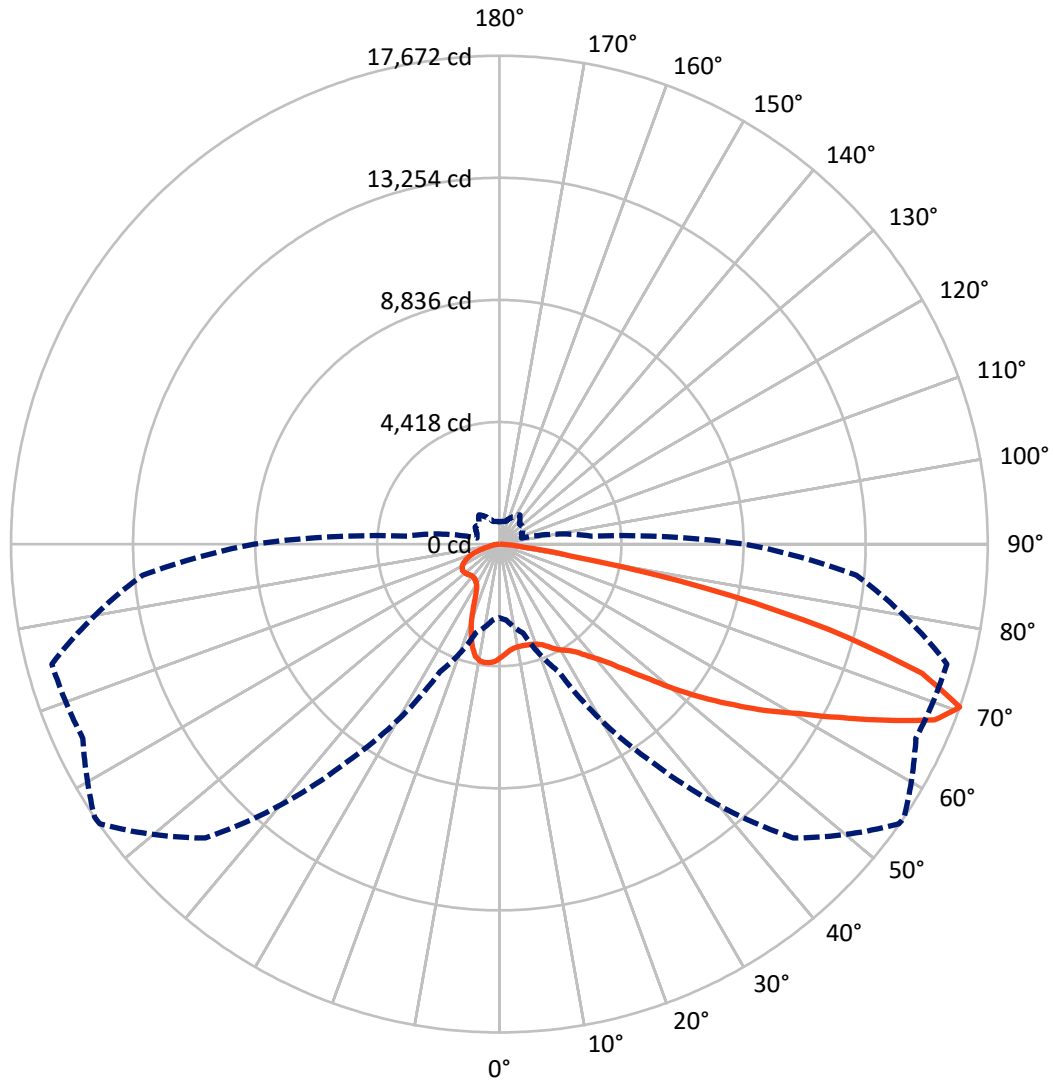
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	4898.2	0.0	4898.2
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	20580.1	0.0	20580.1
	% Fixture	80.8	0.0	80.8
Total	Lumens	25478.3	0.0	25478.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.6	1.5
10°-20°	1031.2	4.0
20°-30°	1704.8	6.7
30°-40°	2548.9	10.0
40°-50°	3793.2	14.9
50°-60°	5392.8	21.2
60°-70°	6679.1	26.2
70°-80°	3688.0	14.5
80°-90°	259.7	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°	25478.3	100.0
0°-180°	25478.3	100.0

Coefficient of Utilization



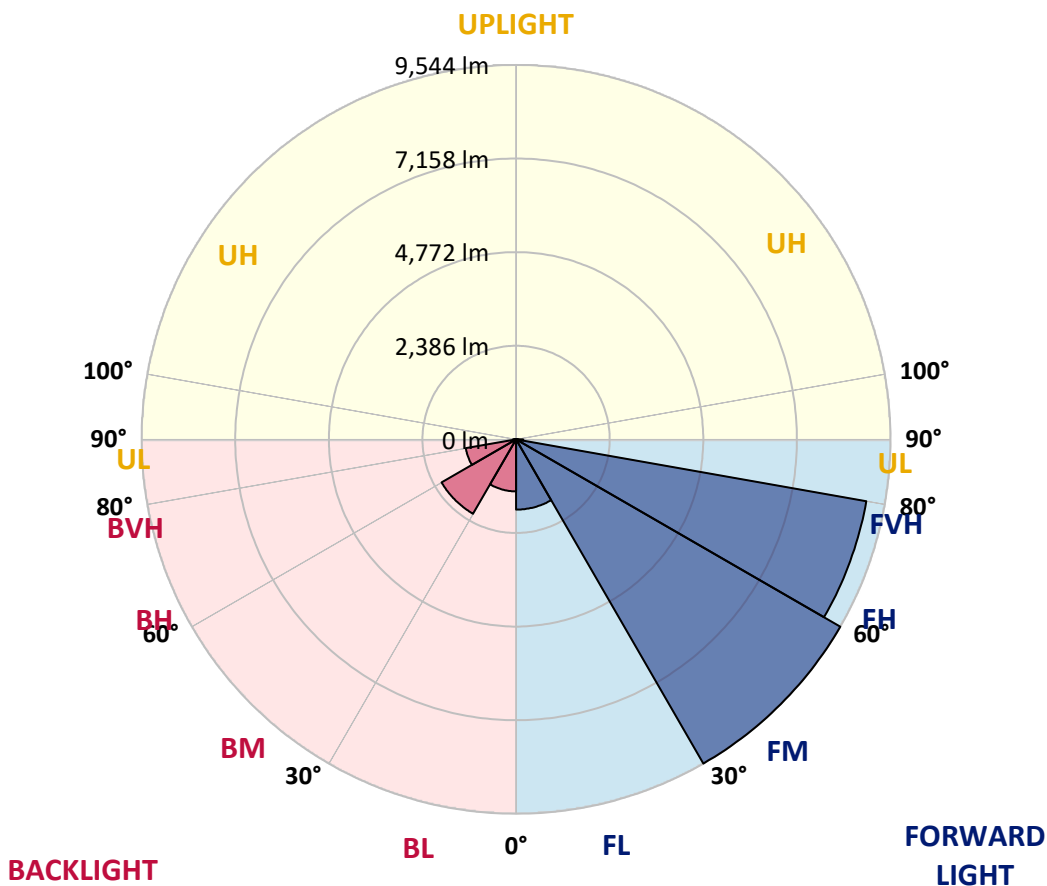
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1790.6	7.0			
FM (30°-60°)	9543.8	37.5			
FH (60°-80°)	9065.2	35.6			G4/12000
FVH (80°-90°)	180.5	0.7			G2/225
BL (0°-30°)	1326.0	5.2	B3/2500		
BM (30°-60°)	2191.1	8.6	B2/2500		
BH (60°-80°)	1301.9	5.1	B3/2500		G3/2500
BVH (80°-90°)	79.2	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°	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6
2.5°	3848.5	3826.9	3852.1	3864.6	3897.0	3943.7	3985.0	3986.8	4008.4	4060.5	4110.8
5°	3674.2	3663.4	3670.6	3708.3	3742.5	3801.8	3864.6	3870.0	3931.1	4033.5	4134.1
7.5°	3539.5	3525.1	3552.0	3600.5	3643.7	3710.1	3792.8	3800.0	3886.2	4040.7	4195.2
10°	3345.4	3334.6	3384.9	3449.6	3543.0	3652.6	3762.2	3771.2	3884.4	4087.4	4303.0
12.5°	3261.0	3261.0	3282.5	3343.6	3446.0	3591.6	3756.8	3771.2	3913.2	4159.3	4441.4
15°	3392.1	3401.1	3383.1	3379.5	3420.9	3559.2	3764.0	3785.6	3967.1	4233.0	4577.9
17.5°	3656.2	3665.2	3618.5	3544.8	3503.5	3589.8	3791.0	3814.3	4024.6	4313.8	4725.3
20°	4026.3	4037.1	3934.7	3821.5	3679.6	3677.8	3843.1	3864.6	4098.2	4401.9	4881.6
22.5°	4459.3	4466.5	4337.2	4157.5	3940.1	3841.3	3932.9	3954.5	4193.4	4524.0	5050.5
25°	4960.6	4982.2	4825.9	4565.4	4270.7	4065.9	4082.0	4107.2	4364.1	4687.5	5249.9
27.5°	5496.0	5523.0	5343.3	5055.8	4649.8	4313.8	4274.3	4295.9	4545.6	4788.1	5355.9
30°	6044.0	6063.8	5884.1	5555.3	5057.6	4594.1	4436.0	4448.6	4624.6	4836.6	5463.7
32.5°	6653.1	6636.9	6464.4	6085.3	5528.4	4930.1	4586.9	4583.3	4712.7	4933.7	5618.2
35°	7224.4	7247.8	7064.5	6645.9	6045.8	5345.1	4813.3	4798.9	4899.5	5091.8	5835.6
37.5°	7916.2	7909.0	7689.8	7237.0	6565.1	5742.2	5131.3	5106.2	5142.1	5337.9	6139.2
40°	8410.2	8460.5	8318.6	7896.4	7172.3	6230.9	5503.2	5447.5	5456.5	5641.6	6545.3
42.5°	8814.5	8861.2	8875.6	8606.1	7867.6	6834.6	5966.8	5911.1	5916.5	6178.8	7044.8
45°	9125.3	9188.2	9391.2	9312.2	8651.0	7531.7	6593.8	6536.3	6539.9	6831.0	7648.4
47.5°	9252.9	9321.2	9732.6	9921.2	9482.9	8365.3	7373.6	7289.1	7301.7	7623.3	8338.4
50°	9211.6	9303.2	9860.2	10390.2	10180.0	9213.4	8306.0	8246.7	8198.2	8665.4	9087.6
52.5°	8855.8	8956.4	9847.6	10688.4	10749.5	10014.7	9269.0	9234.9	9224.1	9772.1	9924.8
55°	7808.4	7977.2	9414.6	10767.5	11195.1	10769.3	10312.9	10255.4	10311.1	10957.9	10771.1
57.5°	7228.0	7353.8	8566.5	10679.4	11559.8	11487.9	11355.0	11360.4	11423.3	12246.1	11797.0
60°	6897.4	7044.8	8095.8	10438.7	11910.2	12361.1	12445.6	12445.6	12558.8	13635.0	12839.0
62.5°	6459.0	6608.2	7655.6	9975.1	12233.6	13388.8	13816.4	13811.0	13856.0	15124.4	13857.8
65°	5569.7	5708.0	6771.7	9243.9	12391.7	14520.7	15374.1	15358.0	15268.1	16450.4	14531.5
67.5°	4044.3	4175.5	5187.0	7853.3	11822.1	15433.4	16978.6	16985.8	16448.6	17285.8	14567.4
70°	2666.3	2756.1	3334.6	5100.8	9614.0	15040.0	17650.5	17672.1	16630.0	16764.8	12964.8
72.5°	1663.7	1726.6	2082.3	3041.8	5681.1	11904.8	15925.7	15985.0	14960.9	14732.7	10652.5
75°	1105.0	1148.1	1385.2	1773.3	2628.5	6442.9	12106.0	12296.4	11991.0	11549.0	7422.1
77.5°	664.8	700.7	882.2	1126.5	1164.2	2517.1	7066.3	7558.6	7601.7	6029.6	3108.2
80°	303.6	345.0	486.9	643.2	619.9	876.8	2492.0	2607.0	3075.9	1915.3	981.0
82.5°	179.7	197.6	323.4	319.8	264.1	425.8	896.5	919.9	781.6	700.7	418.6
85°	71.9	84.4	136.5	120.4	97.0	138.3	337.8	353.9	339.6	305.4	154.5
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	30.5	32.3	46.7	84.4	46.7
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°	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6
2.5°	4143.1	4132.4	4186.3	4227.6	4245.5	4263.5	4247.3	4242.0	4242.0	4206.0	4188.0
5°	4188.0	4193.4	4267.1	4301.2	4301.2	4286.9	4243.7	4213.2	4202.4	4155.7	4143.1
7.5°	4272.5	4295.9	4364.1	4362.3	4312.0	4233.0	4125.2	4042.5	3967.1	3934.7	3915.0
10°	4410.8	4441.4	4488.1	4412.6	4272.5	4064.1	3835.9	3656.2	3548.4	3462.2	3462.2
12.5°	4568.9	4597.7	4588.7	4414.4	4125.2	3735.3	3406.5	3199.9	3049.0	2969.9	2969.9
15°	4727.1	4750.4	4653.4	4331.8	3817.9	3298.7	2939.4	2691.4	2560.3	2486.6	2486.6
17.5°	4887.0	4885.2	4680.3	4141.3	3417.3	2815.4	2463.2	2271.0	2226.1	2213.5	2211.7
20°	5041.5	5000.1	4646.2	3823.3	2951.9	2328.5	2105.7	2118.3	2184.8	2213.5	2217.1
22.5°	5215.7	5113.3	4545.6	3417.3	2423.7	1990.7	2005.1	2109.3	2206.3	2249.4	2254.8
25°	5393.6	5210.4	4376.7	2941.2	1981.7	1866.7	1978.1	2094.9	2204.5	2260.2	2265.6
27.5°	5465.5	5210.4	4089.2	2389.6	1746.4	1814.6	1936.8	2050.0	2165.0	2229.7	2242.3
30°	5524.8	5165.4	3686.8	1891.9	1649.3	1764.3	1870.3	1974.5	2087.7	2166.8	2181.2
32.5°	5607.4	5125.9	3199.9	1590.1	1604.4	1715.8	1789.5	1877.5	1979.9	2032.0	2026.6
35°	5704.4	5064.8	2612.4	1446.3	1566.7	1674.5	1726.6	1778.7	1732.0	1730.2	1735.6
37.5°	5842.8	5010.9	2100.3	1381.6	1541.5	1645.8	1688.9	1577.5	1512.8	1485.9	1475.1
40°	6042.2	4989.4	1656.5	1343.9	1538.0	1644.0	1613.4	1440.9	1352.9	1259.5	1257.7
42.5°	6293.8	4973.2	1369.1	1325.9	1550.5	1685.3	1509.2	1351.1	1169.6	1128.3	1124.7
45°	6617.2	4948.0	1225.3	1322.4	1581.1	1717.6	1498.4	1227.1	1103.2	1085.2	1085.2
47.5°	7007.0	4908.5	1160.7	1322.4	1615.2	1703.2	1466.1	1200.2	1072.6	1092.4	1105.0
50°	7454.4	4858.2	1126.5	1318.8	1649.3	1703.2	1397.8	1194.8	1065.4	1167.8	1209.2
52.5°	7932.3	4800.7	1103.2	1304.4	1672.7	1705.0	1401.4	1212.8	1072.6	1185.8	1219.9
55°	8460.5	4791.7	1070.8	1273.8	1679.9	1658.3	1410.4	1252.3	1083.4	1074.4	1076.2
57.5°	9127.1	4899.5	1047.5	1228.9	1651.1	1563.1	1428.4	1281.0	1070.8	1072.6	1085.2
60°	9824.2	5102.6	1067.2	1185.8	1591.9	1473.3	1440.9	1266.7	1009.7	981.0	984.6
62.5°	10417.1	5257.1	1083.4	1166.0	1505.6	1394.2	1428.4	1234.3	975.6	968.4	984.6
65°	10665.1	5129.5	1043.9	1124.7	1379.8	1297.2	1401.4	1193.0	946.8	919.9	921.7
67.5°	10390.2	4531.2	966.6	1033.1	1237.9	1173.2	1358.3	1139.1	907.3	875.0	867.8
70°	8875.6	3329.2	833.7	887.6	1065.4	1027.7	1291.8	1069.0	844.4	821.1	804.9
72.5°	7152.6	2357.2	691.7	706.1	835.5	866.0	1176.8	981.0	772.6	706.1	682.7
75°	4978.6	1480.5	576.7	562.4	603.7	661.2	918.1	813.9	666.6	596.5	574.9
77.5°	2141.6	760.0	451.0	443.8	402.5	458.2	704.3	679.1	558.8	477.9	465.3
80°	716.9	440.2	325.2	312.6	267.7	321.6	495.9	542.6	438.4	353.9	332.4
82.5°	359.3	255.1	206.6	186.9	179.7	203.0	292.9	337.8	303.6	244.3	206.6
85°	176.1	145.5	113.2	111.4	93.4	88.0	122.2	143.7	136.5	100.6	95.2
87.5°	64.7	57.5	35.9	28.7	18.0	12.6	7.2	7.2	5.4	5.4	5.4
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)