

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: P643658

Luminaire Tested: GWS-SA6F-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-735-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29158.2 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

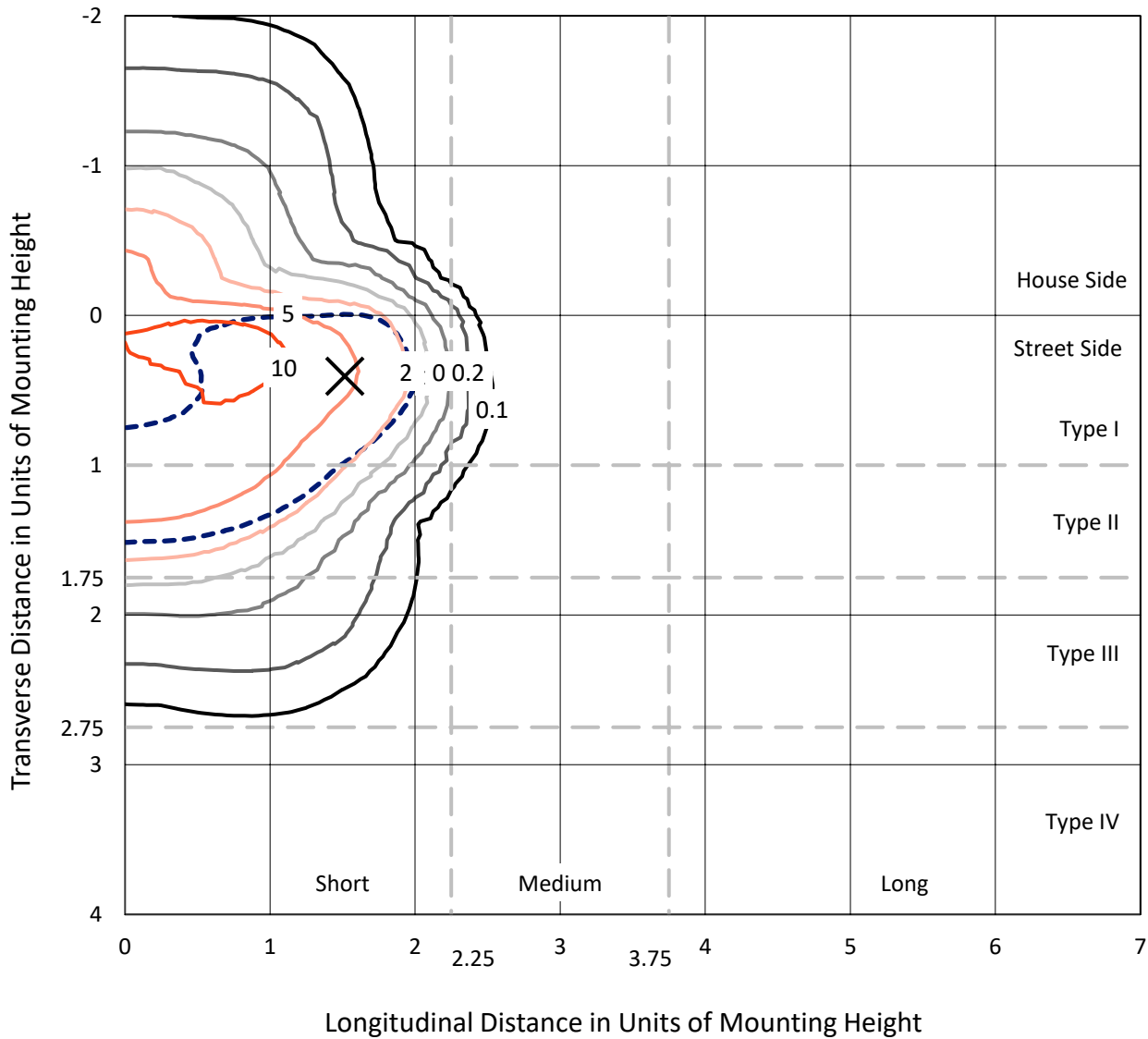
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

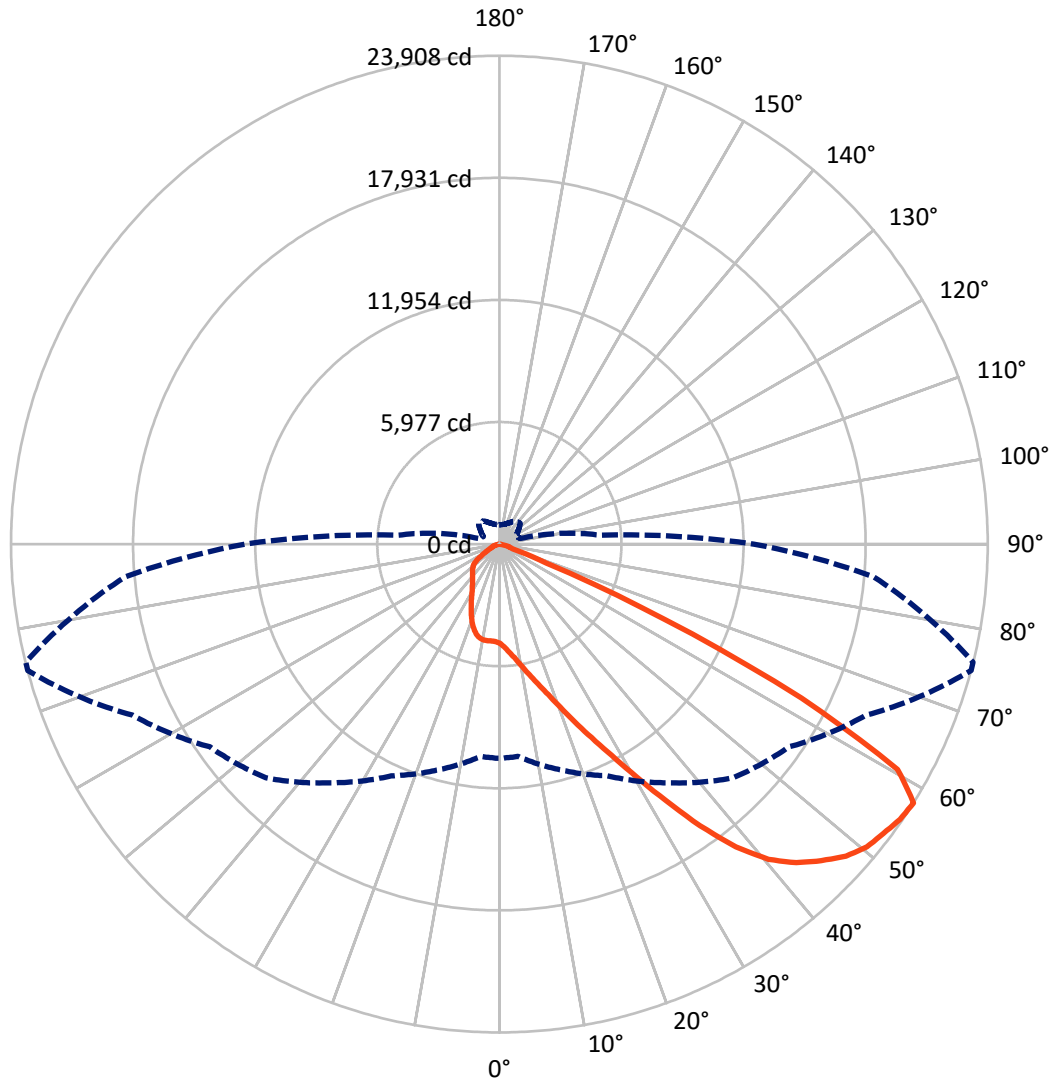
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4762.9	0.0	4762.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	24395.3	0.0	24395.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	29158.2	0.0	29158.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.9	1.7
10°-20°	1607.6	5.5
20°-30°	2943.8	10.1
30°-40°	4884.0	16.8
40°-50°	7459.1	25.6
50°-60°	8381.6	28.7
60°-70°	3091.5	10.6
70°-80°	295.5	1.0
80°-90°	0.2	0.0
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°	29158.2	100.0
0°-180°	29158.2	100.0

Coefficient of Utilization



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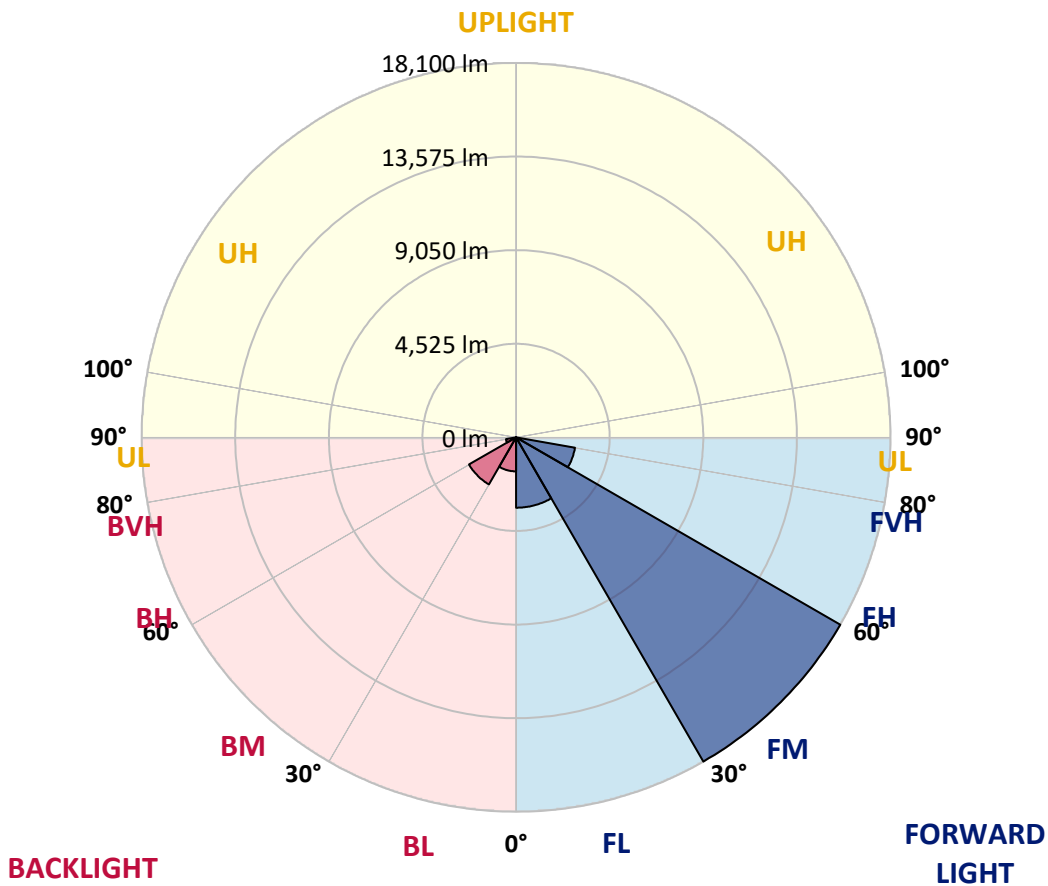
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3402.7	11.7			
FM (30°-60°)	18100.0	62.1			
FH (60°-80°)	2892.4	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1643.5	5.6	B3/2500		
BM (30°-60°)	2624.7	9.0	B3/5000		
BH (60°-80°)	494.6	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2
2.5°	5433.3	5489.6	5472.0	5436.8	5415.7	5341.8	5296.0	5162.3	5067.3	5056.7	4968.8
5°	6119.4	6108.9	6094.8	6052.6	6017.4	5901.3	5764.0	5538.8	5338.2	5313.6	5127.1
7.5°	6496.0	6503.0	6510.0	6503.0	6478.4	6390.4	6239.1	5975.2	5669.0	5647.9	5352.3
10°	6650.8	6664.9	6700.1	6766.9	6826.8	6819.7	6731.7	6460.8	6084.3	6049.1	5651.4
12.5°	6724.7	6742.3	6798.6	6925.3	7087.2	7213.8	7227.9	6985.1	6569.9	6513.6	6006.8
15°	6826.8	6844.3	6914.7	7080.1	7315.9	7565.7	7727.6	7572.8	7108.3	7048.4	6397.4
17.5°	6872.5	6897.1	6999.2	7217.4	7523.5	7907.1	8273.0	8259.0	7745.2	7699.5	6851.4
20°	6960.5	6978.1	7069.6	7305.3	7674.8	8227.3	8843.1	9064.8	8522.9	8456.0	7400.3
22.5°	7238.5	7245.5	7287.7	7435.5	7780.4	8459.5	9423.7	10004.4	9441.3	9353.4	8016.2
25°	7692.4	7688.9	7706.5	7731.1	7984.5	8695.3	9983.2	11063.6	10493.5	10398.5	8712.9
27.5°	8269.5	8269.5	8311.7	8241.4	8343.4	8987.4	10535.7	12281.1	11718.1	11584.4	9476.5
30°	8948.7	8945.2	9043.7	8931.1	8962.8	9448.4	11130.4	13607.8	13196.0	13030.7	10356.3
32.5°	9870.6	9849.5	9962.1	9807.3	9701.7	10145.1	11855.3	14994.2	14966.1	14712.7	11461.2
35°	11035.4	11000.2	11035.4	10884.1	10694.1	11119.9	12805.4	16377.2	16929.6	16662.2	12777.3
37.5°	12193.1	12305.8	12344.5	12084.1	11929.2	12355.0	13949.1	17615.8	18805.2	18527.2	14146.2
40°	13558.5	13523.3	13657.0	13365.0	13266.4	13738.0	15068.1	18537.8	20290.2	20026.3	15363.7
42.5°	14564.9	14628.3	14793.6	14631.8	14554.4	14997.7	16007.7	19076.2	21321.3	21060.9	16232.9
45°	15771.9	15817.7	15881.0	15747.3	15666.3	16102.7	16686.8	19312.0	22106.0	21824.5	16817.0
47.5°	17077.4	17112.6	17112.6	16838.2	16577.7	16757.2	17140.8	19445.7	22827.4	22556.4	17249.9
50°	18013.5	18031.1	18185.9	17992.4	17425.8	17147.8	17348.4	19575.9	23306.0	23052.6	17390.6
52.5°	17183.0	17161.9	17672.1	18073.3	18224.6	17672.1	17707.3	19765.9	23538.2	23320.0	17503.2
55°	14469.9	14434.7	15152.6	16127.3	17461.0	18168.3	18140.2	19878.5	23795.1	23661.4	17911.4
57.5°	10490.0	10430.2	11429.5	12513.4	14262.3	16180.1	17306.2	19815.2	23907.7	23897.2	18386.5
60°	6305.9	6256.7	7199.8	8339.9	9691.2	11619.6	13488.1	17749.6	22401.6	22422.7	17151.3
62.5°	3881.4	3927.1	4778.7	5359.4	5862.6	6443.2	7523.5	11939.8	16595.3	16732.6	12052.4
65°	2611.1	2646.2	3434.5	4166.4	4166.4	3406.3	2924.2	5707.7	8853.7	8621.4	5700.7
67.5°	1752.4	1791.1	2414.0	3269.1	3392.3	2375.3	1185.9	1703.2	2466.8	2392.9	1411.1
70°	1031.1	1073.3	1608.2	2241.6	2470.3	1653.9	791.8	721.4	700.3	679.2	549.0
72.5°	461.0	478.6	819.9	1140.1	1041.6	696.8	559.5	577.1	545.4	534.9	446.9
75°	140.8	147.8	211.1	246.3	249.8	249.8	337.8	453.9	429.3	432.8	344.9
77.5°	35.2	35.2	56.3	52.8	28.2	24.6	63.3	102.0	105.6	95.0	70.4
80°	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2	4863.2
2.5°	4930.0	4838.5	4778.7	4694.3	4634.5	4571.1	4514.8	4469.1	4444.4	4437.4	4440.9
5°	5042.6	4898.4	4757.6	4595.7	4483.1	4377.6	4293.1	4226.3	4194.6	4184.0	4184.0
7.5°	5215.1	5014.5	4764.7	4511.3	4321.3	4155.9	4057.3	3983.4	3955.3	3948.3	3927.1
10°	5440.3	5165.8	4754.1	4360.0	4092.5	3920.1	3849.7	3828.6	3839.2	3842.7	3839.2
12.5°	5711.2	5324.2	4687.2	4138.3	3849.7	3744.2	3751.2	3807.5	3870.8	3902.5	3909.5
15°	5999.8	5468.4	4535.9	3874.4	3642.1	3638.6	3740.6	3870.8	3994.0	4046.8	4060.9
17.5°	6323.5	5584.6	4303.7	3592.8	3462.6	3564.7	3747.7	3948.3	4113.6	4201.6	4219.2
20°	6679.0	5679.6	4008.1	3328.9	3304.3	3487.3	3740.6	3987.0	4191.1	4289.6	4307.2
22.5°	7048.4	5746.4	3666.7	3086.1	3160.0	3399.3	3673.8	3913.1	4106.6	4219.2	4233.3
25°	7470.7	5753.5	3318.4	2882.0	3026.3	3279.7	3511.9	3709.0	3870.8	3969.4	3979.9
27.5°	7840.2	5669.0	3008.7	2716.6	2903.1	3131.9	3286.7	3395.8	3508.4	3564.7	3568.2
30°	8266.0	5521.2	2716.6	2582.9	2776.4	2948.9	3026.3	3050.9	3061.5	3072.0	3058.0
32.5°	8772.7	5341.8	2498.5	2452.7	2632.2	2748.3	2769.4	2720.1	2660.3	2575.9	2554.8
35°	9395.6	5179.9	2319.0	2326.0	2473.8	2544.2	2526.6	2421.0	2304.9	2202.9	2185.3
37.5°	10071.2	5042.6	2181.7	2202.9	2301.4	2350.7	2297.9	2181.7	2129.0	2041.0	2044.5
40°	10669.4	4930.0	2058.6	2079.7	2125.4	2171.2	2086.7	2009.3	2107.8	2100.8	2107.8
42.5°	11095.2	4835.0	1953.0	1942.5	1974.1	2005.8	1942.5	1903.7	2069.1	2023.4	2048.0
45°	11345.1	4747.1	1865.0	1801.7	1851.0	1907.3	1865.0	1815.8	1872.1	1660.9	1643.3
47.5°	11514.0	4697.8	1787.6	1664.5	1752.4	1851.0	1763.0	1643.3	1562.4	1379.4	1365.4
50°	11531.6	4673.2	1696.1	1523.7	1636.3	1741.9	1639.8	1474.4	1358.3	1277.4	1266.8
52.5°	11623.1	4722.4	1569.4	1344.2	1467.4	1636.3	1565.9	1400.5	1242.2	1171.8	1157.7
55°	12031.3	4930.0	1358.3	1097.9	1277.4	1555.4	1506.1	1249.2	1097.9	1055.7	1045.1
57.5°	12453.5	4972.3	1069.8	869.2	1112.0	1439.2	1375.9	1150.7	1002.9	953.6	943.1
60°	11387.3	4096.1	802.3	717.9	981.8	1330.2	1273.9	1090.9	918.4	858.6	848.1
62.5°	7481.3	2213.4	636.9	608.8	827.0	1126.1	1161.3	985.3	819.9	756.6	753.1
65°	3448.6	1027.5	489.1	482.1	647.5	897.3	999.4	862.1	693.2	636.9	636.9
67.5°	939.6	510.2	383.6	355.4	439.9	601.7	728.4	644.0	492.7	425.8	422.3
70°	468.0	411.7	344.9	306.1	316.7	373.0	429.3	358.9	249.8	204.1	200.6
72.5°	383.6	337.8	292.1	260.4	239.3	228.7	221.7	179.5	116.1	88.0	84.5
75°	285.0	242.8	207.6	168.9	144.3	133.7	119.6	88.0	49.3	28.2	24.6
77.5°	63.3	59.8	56.3	42.2	38.7	31.7	24.6	17.6	7.0	0.0	0.0
80°	3.5	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)