

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: P638740

Luminaire Tested: GWS-SA4F-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34647.8 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

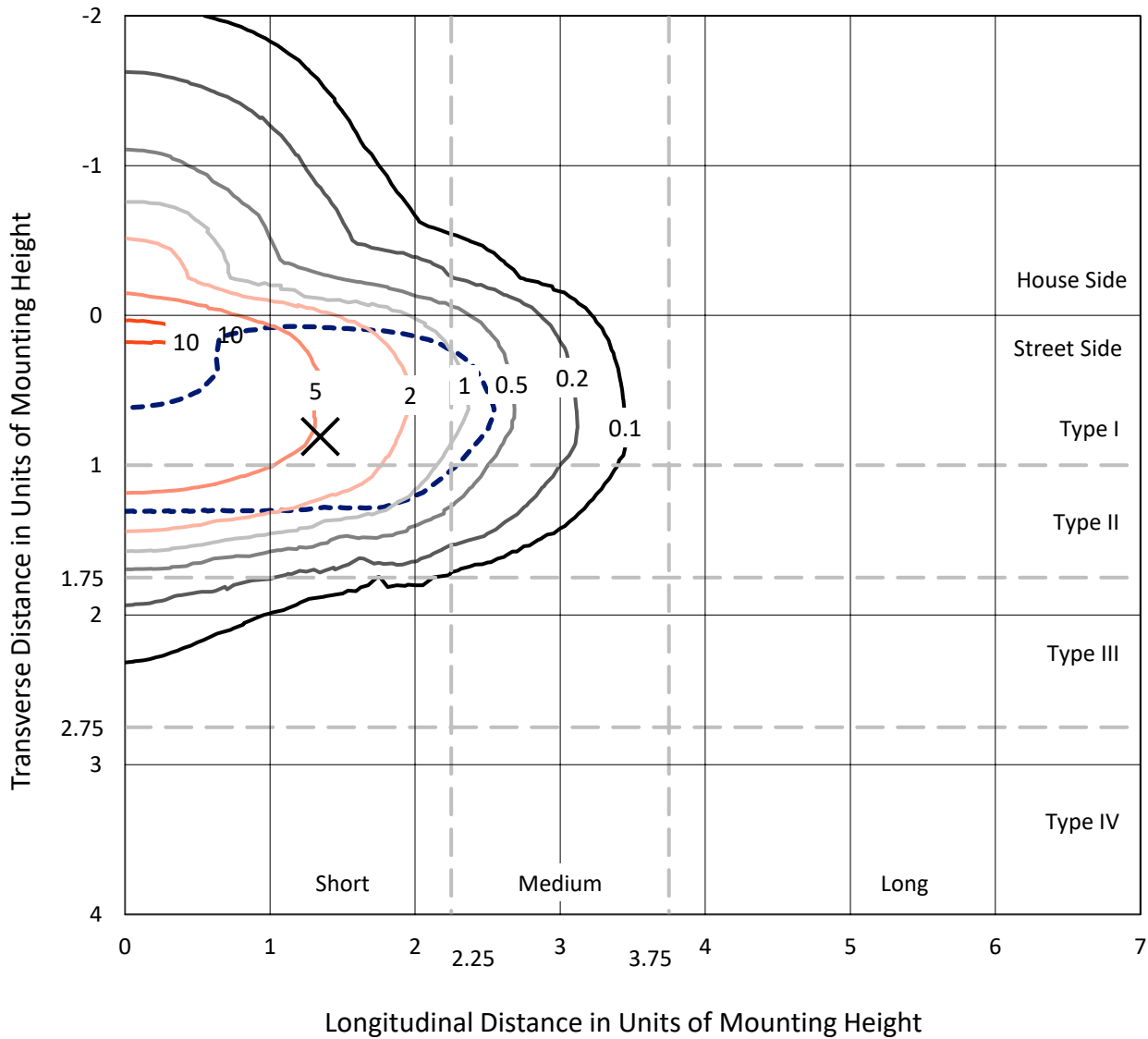
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

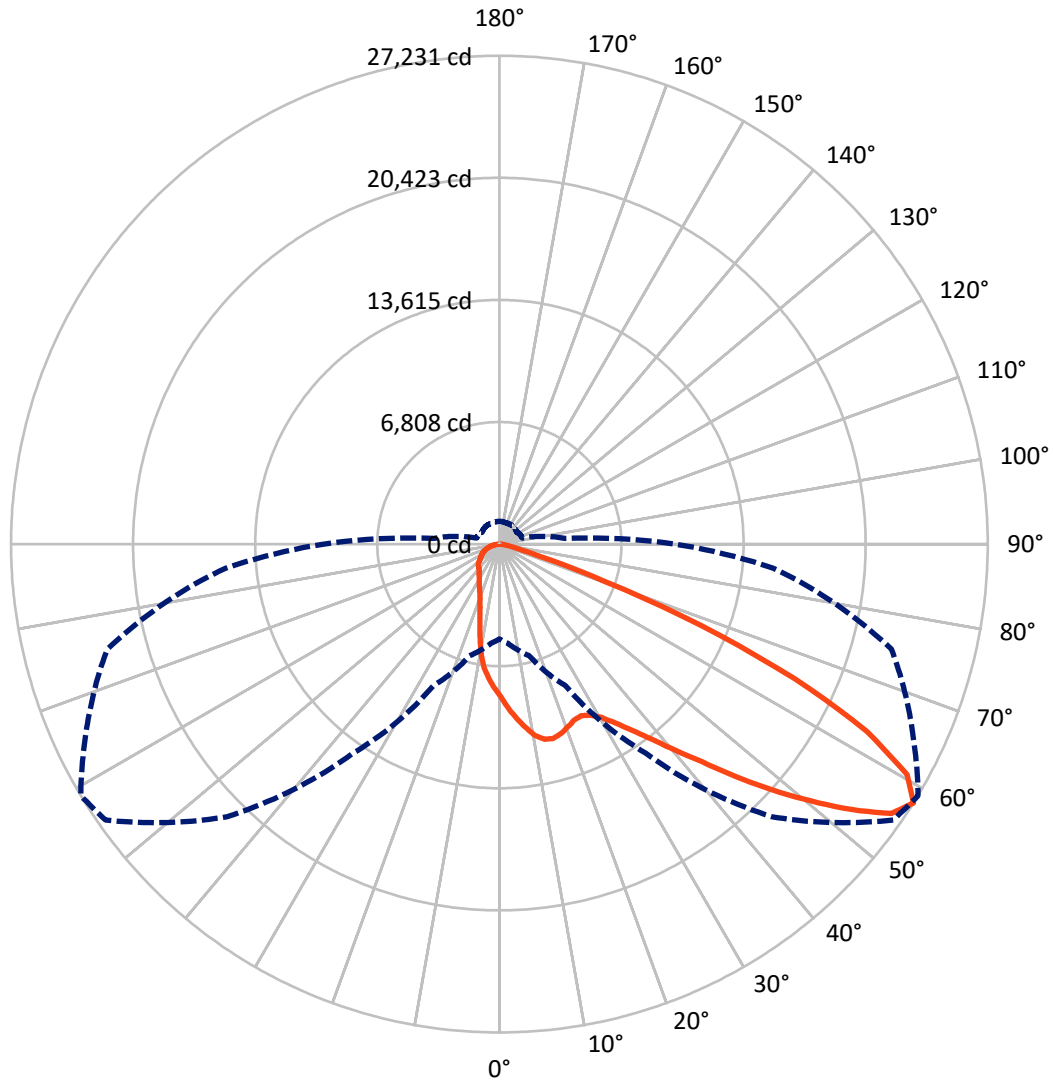
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5377.2	0.0	5377.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	29270.6	0.0	29270.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	34647.8	0.0	34647.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.7	2.3
10°-20°	2001.2	5.8
20°-30°	3244.0	9.4
30°-40°	5218.3	15.1
40°-50°	8103.6	23.4
50°-60°	8728.6	25.2
60°-70°	5065.7	14.6
70°-80°	1322.5	3.8
80°-90°	174.2	0.5
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°	34647.8	100.0
0°-180°	34647.8	100.0

Coefficient of Utilization



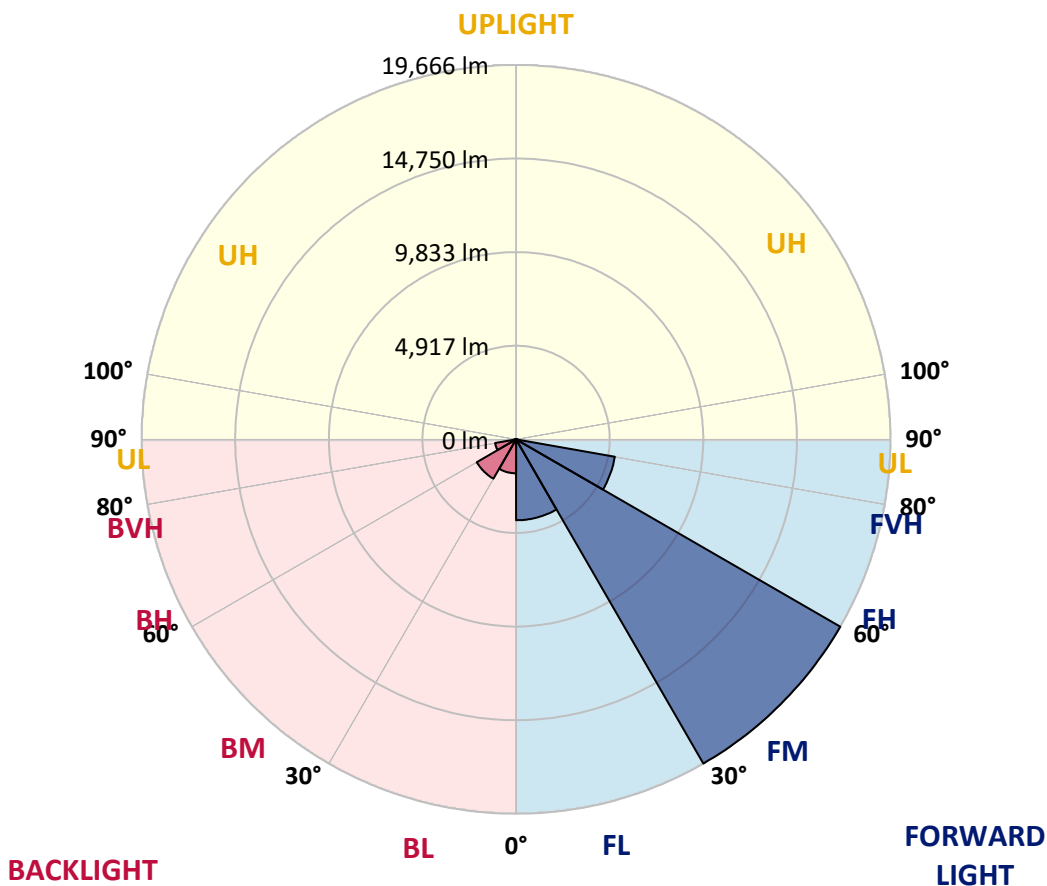
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4251.0	12.3			
FM (30°-60°)	19666.5	56.8			
FH (60°-80°)	5269.8	15.2			G3/7500
FVH (80°-90°)	83.4	0.2			G1/100
BL (0°-30°)	1783.9	5.1	B3/2500		
BM (30°-60°)	2384.0	6.9	B2/2500		
BH (60°-80°)	1118.4	3.2	B3/2500		G3/2500
BVH (80°-90°)	90.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3
2.5°	9646.9	9566.4	9622.5	9522.5	9481.0	9371.2	9229.8	9134.6	8988.3	8798.0	8632.2
5°	10605.5	10549.4	10561.6	10454.2	10359.1	10176.2	9885.9	9724.9	9476.1	9093.2	8737.1
7.5°	10576.2	10642.0	10678.6	10771.3	10798.2	10781.1	10520.1	10295.7	10022.5	9446.9	8910.2
10°	9481.0	9605.4	9717.6	10034.7	10420.1	10907.9	10968.9	10834.7	10559.1	9898.1	9117.6
12.5°	8288.3	8383.4	8483.4	8863.9	9454.2	10429.8	11090.8	11173.8	11064.0	10344.5	9351.7
15°	7702.9	7746.8	7841.9	8093.1	8563.9	9646.9	10878.6	11242.1	11439.6	10817.7	9615.2
17.5°	7678.5	7698.0	7744.3	7878.5	8205.3	9042.0	10495.7	11105.5	11734.8	11317.7	9922.5
20°	8183.4	8132.2	8102.9	8100.4	8261.4	8839.5	10124.9	10886.0	11873.8	11829.9	10251.8
22.5°	8883.4	8900.5	8837.1	8681.0	8661.4	8983.4	9939.6	10664.0	11915.3	12283.6	10556.7
25°	9876.1	9961.5	9773.7	9476.1	9329.8	9400.5	10054.2	10595.7	11910.4	12661.7	10746.9
27.5°	11034.7	11100.6	10910.4	10520.1	10217.6	10046.9	10395.7	10798.2	11951.9	12988.5	10861.6
30°	12354.3	12376.3	12115.3	11705.5	11264.0	10898.2	10964.0	11215.2	12164.1	13417.8	10995.7
32.5°	13966.6	14059.3	13664.2	13015.3	12398.2	11929.9	11727.5	11888.5	12622.6	13925.1	11203.1
35°	16013.1	16044.8	15542.3	14613.0	13739.8	13091.0	12666.5	12751.9	13320.2	14634.9	11515.3
37.5°	17942.4	17974.2	17440.0	16576.5	15327.7	14439.8	13825.1	13786.1	14213.0	15637.4	12025.0
40°	19166.9	19257.1	19018.1	18476.6	17283.9	16086.2	15252.1	15117.9	15383.8	16864.3	12734.8
42.5°	19825.5	19864.5	19859.6	19930.4	19220.6	18030.3	16861.9	16593.6	16771.6	18188.8	13452.0
45°	19830.4	19927.9	20188.9	20869.4	20901.1	20159.6	18896.2	18476.6	18313.2	19523.0	14200.8
47.5°	18942.5	19047.4	19764.5	21103.6	22091.4	22259.8	21332.9	20491.4	19803.5	20671.9	14815.4
50°	16254.5	16518.0	17883.9	20252.3	22325.6	23942.8	23657.4	22515.9	21128.0	21559.7	15200.8
52.5°	13920.3	13910.5	14752.0	17847.3	21347.5	24684.3	25906.3	24598.9	22437.8	22123.2	15298.4
55°	10193.2	10249.3	11110.4	13649.5	18737.6	23967.2	27142.9	26516.1	23940.3	22423.2	15259.4
57.5°	5285.7	5563.7	6446.7	8710.2	14237.4	21498.7	26813.7	27230.8	25467.2	22635.4	15310.6
60°	2670.9	2617.2	2934.3	4158.8	8249.2	16791.2	24784.3	26113.6	25742.9	22801.2	15342.3
62.5°	1783.0	1768.4	1680.6	1926.9	3370.9	9944.4	21128.0	22991.5	23828.1	22411.0	14937.4
65°	1544.0	1514.7	1353.7	1344.0	1636.7	4124.6	15486.2	18074.2	19693.8	20676.7	13969.1
67.5°	1390.3	1346.4	1183.0	1102.5	1175.7	1812.3	8727.3	12122.6	14542.3	17486.3	11847.0
70°	1241.5	1219.6	1056.2	939.1	931.8	1104.9	3214.8	6256.4	8898.0	11929.9	8661.4
72.5°	1112.3	1073.2	934.2	822.0	765.9	783.0	1395.2	2409.9	4605.1	7441.9	5180.8
75°	963.5	934.2	812.2	700.0	631.7	573.2	851.3	1114.7	2100.1	3536.8	2446.5
77.5°	743.9	724.4	641.5	556.1	517.1	426.9	517.1	702.5	970.8	1490.3	1273.2
80°	431.7	443.9	478.1	434.2	380.5	304.9	336.6	404.9	583.0	807.4	722.0
82.5°	217.1	231.7	309.8	251.2	226.8	178.1	200.0	239.0	304.9	446.4	282.9
85°	17.1	17.1	56.1	63.4	78.1	63.4	80.5	97.6	139.0	178.1	95.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	12.2	22.0	41.5	26.8
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°	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3	8505.3
2.5°	8520.0	8395.6	8246.8	8124.8	7937.0	7837.0	7710.2	7554.1	7490.7	7461.4	7444.3
5°	8537.1	8317.5	8000.4	7707.7	7383.3	7127.2	6841.8	6544.3	6373.5	6332.1	6302.8
7.5°	8600.5	8293.1	7788.2	7305.3	6702.8	6144.2	5600.3	5061.3	4785.6	4680.7	4671.0
10°	8688.3	8283.4	7573.6	6771.1	5754.0	4871.0	4234.4	3812.4	3634.3	3575.8	3556.3
12.5°	8798.0	8276.1	7290.6	6029.6	4658.8	3824.6	3461.2	3392.9	3417.3	3412.4	3412.4
15°	8937.1	8285.8	6949.2	5190.5	3768.5	3319.7	3327.0	3407.5	3483.1	3495.3	3495.3
17.5°	9088.3	8276.1	6454.0	4349.0	3234.3	3200.2	3312.4	3424.6	3492.9	3502.6	3502.6
20°	9251.7	8229.7	5829.6	3556.3	3000.2	3124.6	3246.5	3334.3	3375.8	3385.6	3385.6
22.5°	9349.3	8098.0	5151.5	3009.9	2851.4	3005.0	3085.5	3175.8	3180.7	3102.6	3100.2
25°	9334.7	7851.6	4378.3	2658.7	2692.8	2827.0	2929.4	2866.0	2788.0	2744.1	2736.7
27.5°	9242.0	7480.9	3590.4	2392.8	2505.0	2656.2	2624.5	2570.9	2551.4	2502.6	2497.7
30°	9124.9	7024.8	2883.1	2185.5	2309.9	2448.9	2400.1	2395.3	2375.7	2322.1	2322.1
32.5°	9012.7	6554.0	2348.9	2031.8	2185.5	2195.2	2263.5	2268.4	2258.7	2166.0	2156.2
35°	8981.0	6083.3	1987.9	1909.9	2063.5	2058.6	2156.2	2153.8	1985.5	1856.2	1853.8
37.5°	9076.1	5605.2	1773.3	1809.9	1895.2	1958.6	2036.7	1895.2	1839.1	1761.1	1756.2
40°	9278.6	5163.7	1663.5	1751.3	1787.9	1880.6	1758.6	1768.4	1753.8	1695.2	1687.9
42.5°	9546.9	4788.1	1602.5	1731.8	1726.9	1751.3	1617.2	1656.2	1678.1	1634.2	1626.9
45°	9805.4	4461.2	1570.8	1658.6	1683.0	1541.5	1514.7	1551.3	1585.5	1568.4	1561.1
47.5°	9995.7	4178.3	1553.7	1558.6	1626.9	1470.8	1426.9	1444.0	1485.4	1492.8	1490.3
50°	10054.2	3936.8	1534.2	1475.7	1461.1	1400.1	1365.9	1361.0	1409.8	1444.0	1448.9
52.5°	9942.0	3722.2	1483.0	1402.5	1331.8	1341.5	1329.3	1304.9	1353.7	1400.1	1405.0
55°	9776.1	3600.2	1402.5	1331.8	1248.8	1287.9	1292.8	1270.8	1302.5	1334.2	1334.2
57.5°	9788.3	3670.9	1324.5	1265.9	1175.7	1226.9	1253.7	1244.0	1244.0	1268.4	1270.8
60°	9868.8	3773.4	1273.2	1183.0	1102.5	1156.2	1217.1	1207.4	1185.4	1217.1	1217.1
62.5°	9637.1	3636.8	1239.1	1102.5	1024.4	1087.9	1161.0	1156.2	1131.8	1183.0	1187.9
65°	8954.1	3270.9	1200.1	1002.5	946.4	1019.6	1083.0	1100.1	1078.1	1146.4	1158.6
67.5°	7505.3	2751.4	1124.5	907.4	868.3	936.6	997.6	1022.0	1004.9	1085.4	1095.2
70°	5595.4	2227.0	1004.9	802.5	773.2	834.2	890.3	900.0	902.5	997.6	1007.4
72.5°	3568.5	1731.8	846.4	685.4	663.5	709.8	751.3	790.3	807.4	897.6	895.2
75°	1990.4	1287.9	680.5	580.5	541.5	578.1	626.9	673.2	722.0	853.7	868.3
77.5°	1146.4	904.9	539.1	465.9	419.5	458.6	500.0	565.9	712.2	826.9	812.2
80°	646.4	587.8	407.3	341.5	312.2	341.5	373.2	497.6	561.0	609.8	617.1
82.5°	302.5	329.3	278.1	209.8	209.8	229.3	258.6	385.4	424.4	346.4	302.5
85°	109.8	148.8	136.6	107.3	95.1	92.7	161.0	219.5	136.6	122.0	104.9
87.5°	29.3	41.5	39.0	26.8	14.6	12.2	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)