

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: P637233

Luminaire Tested: GWS-SA4C-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14055.7 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

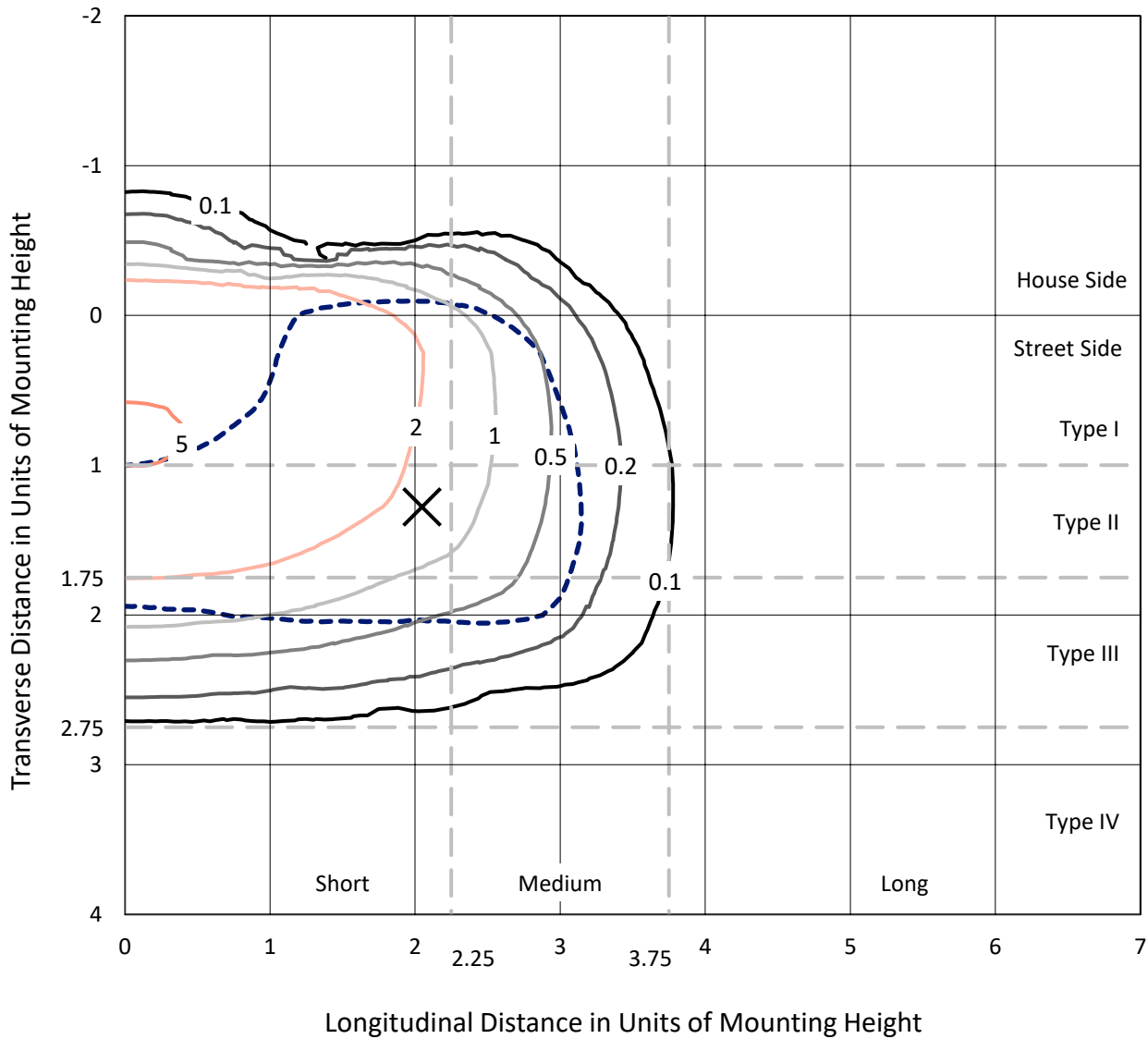
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

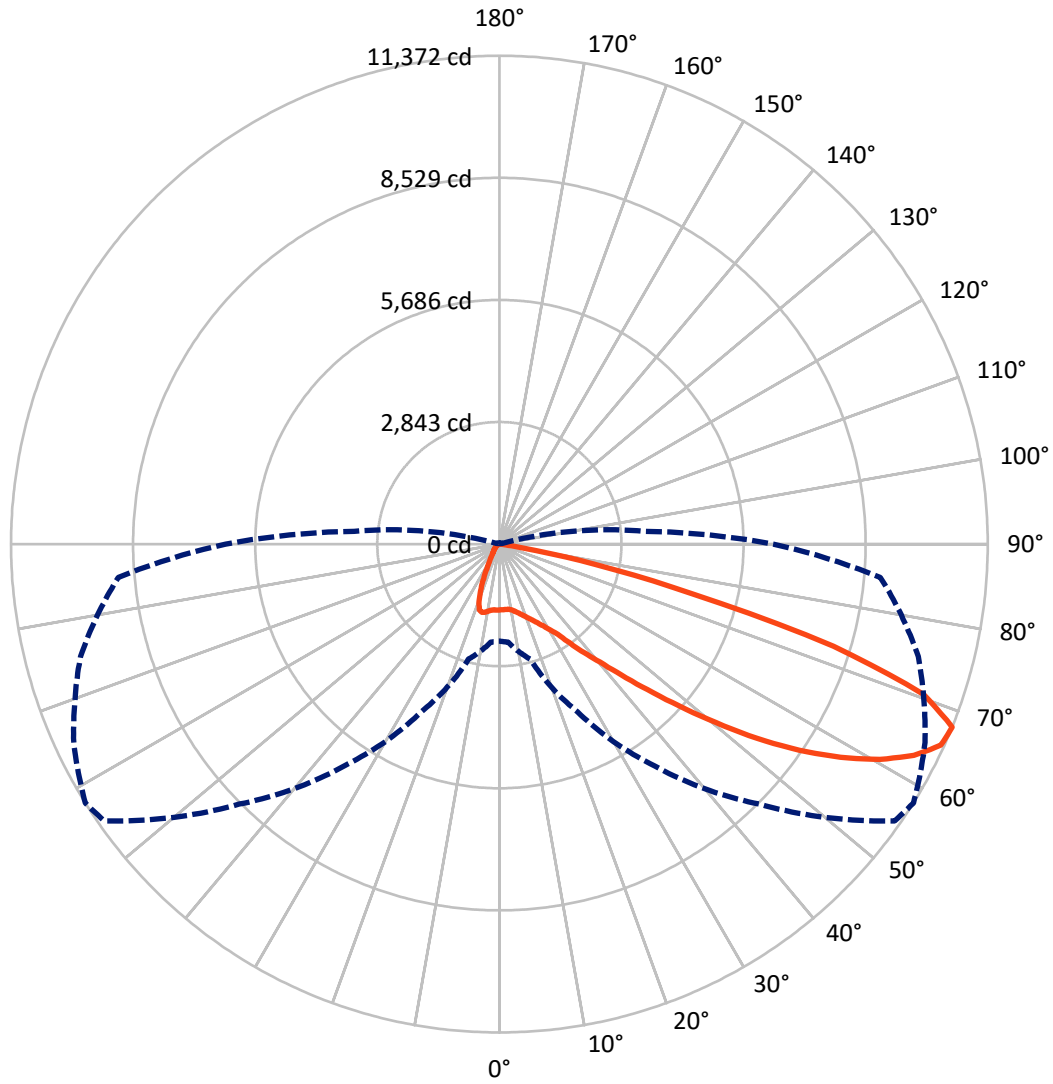
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1533.4	0.0	1533.4
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	12522.2	0.0	12522.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	14055.7	0.0	14055.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	1.0
10°-20°	404.0	2.9
20°-30°	705.2	5.0
30°-40°	1259.3	9.0
40°-50°	2301.8	16.4
50°-60°	3828.1	27.2
60°-70°	4157.9	29.6
70°-80°	1220.8	8.7
80°-90°	34.8	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°	14055.7	100.0
0°-180°	14055.7	100.0

Coefficient of Utilization



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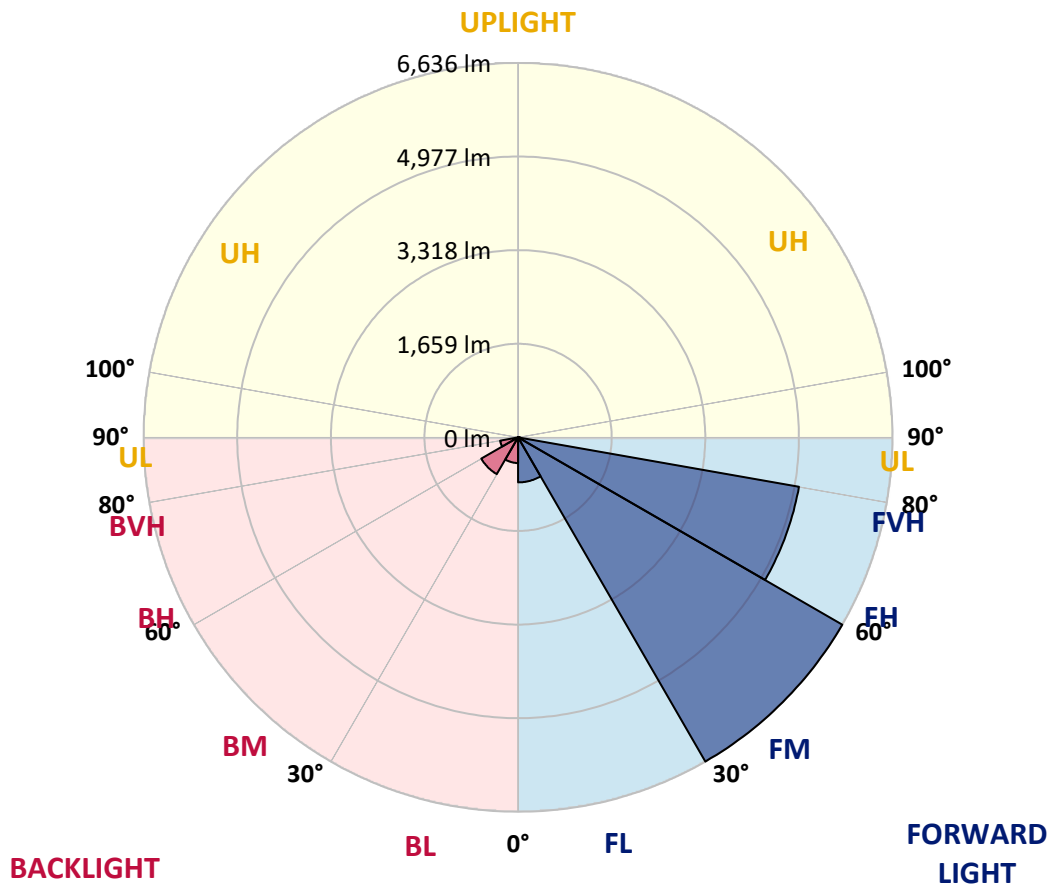
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.1	5.7			
FM (30°-60°)	6636.0	47.2			
FH (60°-80°)	5055.1	36.0			G3/7500
FVH (80°-90°)	33.1	0.2			G1/100
BL (0°-30°)	454.9	3.2	B1/500		
BM (30°-60°)	753.2	5.4	B1/1000		
BH (60°-80°)	323.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7
2.5°	1502.8	1500.1	1500.1	1511.1	1512.4	1517.9	1530.3	1531.7	1538.5	1535.8	1526.2
5°	1424.6	1426.0	1434.2	1453.4	1469.9	1490.5	1520.7	1527.5	1542.6	1550.9	1545.4
7.5°	1351.9	1353.2	1365.6	1395.8	1427.3	1468.5	1517.9	1531.7	1561.8	1583.8	1585.2
10°	1324.4	1323.0	1335.4	1369.7	1410.9	1468.5	1539.9	1557.7	1603.0	1641.4	1648.3
12.5°	1332.6	1331.3	1343.6	1375.2	1420.5	1493.2	1578.3	1603.0	1660.7	1719.7	1732.0
15°	1365.6	1364.2	1372.4	1398.5	1447.9	1523.4	1627.7	1664.8	1737.5	1808.9	1828.1
17.5°	1464.4	1457.5	1449.3	1452.0	1480.9	1559.1	1690.9	1736.1	1826.7	1911.8	1928.3
20°	1640.1	1622.2	1600.3	1571.5	1557.7	1611.3	1763.6	1815.7	1925.5	2023.0	2025.7
22.5°	1905.0	1898.1	1847.3	1763.6	1704.6	1706.0	1848.7	1909.1	2043.6	2150.6	2135.5
25°	2274.1	2270.0	2191.8	2054.6	1900.8	1848.7	1957.1	2018.9	2183.6	2297.5	2249.4
27.5°	2732.5	2703.7	2611.8	2426.5	2197.3	2034.0	2094.4	2149.3	2331.8	2438.8	2348.3
30°	3131.9	3133.3	3046.8	2853.3	2595.3	2312.6	2261.8	2309.8	2467.7	2580.2	2470.4
32.5°	3516.2	3528.6	3433.9	3259.6	2976.8	2676.3	2502.0	2510.2	2642.0	2764.1	2631.0
35°	3873.0	3882.7	3816.8	3668.6	3405.0	3056.4	2836.8	2832.7	2904.1	3029.0	2854.7
37.5°	4272.4	4282.0	4217.5	4084.4	3837.4	3491.5	3217.0	3211.5	3240.3	3341.9	3142.9
40°	4697.9	4715.7	4644.4	4531.8	4295.8	4003.4	3658.9	3609.5	3580.7	3700.1	3516.2
42.5°	5128.8	5156.3	5131.6	5019.0	4817.3	4575.7	4232.6	4155.8	4094.0	4243.6	4048.7
45°	5664.1	5697.0	5686.0	5599.6	5443.1	5246.9	4923.0	4833.8	4804.9	4943.6	4711.6
47.5°	6178.8	6214.4	6254.2	6235.0	6123.9	6033.3	5673.7	5622.9	5614.7	5762.9	5403.3
50°	6561.7	6594.6	6747.0	6856.7	6932.2	6913.0	6601.5	6526.0	6513.6	6608.3	6133.5
52.5°	6836.2	6867.7	7077.7	7420.8	7698.1	7849.0	7534.7	7518.3	7451.0	7418.1	6816.9
55°	7048.9	7092.8	7313.8	7832.6	8391.1	8726.0	8529.8	8470.7	8297.8	8108.4	7451.0
57.5°	7091.4	7109.3	7420.8	8120.8	8929.1	9471.3	9471.3	9368.3	9034.8	8772.7	8183.9
60°	6709.9	6764.8	7186.1	8097.4	9159.7	9958.5	10252.2	10180.8	9730.7	9408.1	8889.3
62.5°	5863.1	5924.9	6438.2	7538.9	8929.1	10058.7	10843.7	10832.7	10324.9	9933.8	9474.0
65°	4496.1	4541.4	4988.8	6306.4	7954.7	9673.0	11266.4	11296.6	10794.3	10281.0	9675.8
67.5°	2259.0	2290.6	2773.7	4308.1	6305.0	8562.7	11237.6	11372.1	10937.0	10097.1	8905.8
70°	789.2	820.7	1048.5	1848.7	3837.4	6538.3	10265.9	10485.5	10098.5	8619.0	6569.9
72.5°	270.4	285.5	435.1	686.2	1493.2	3875.8	7806.5	8137.2	7444.2	5786.2	3775.6
75°	153.7	163.3	233.3	371.9	625.8	1275.0	4428.9	4632.0	4339.7	3153.9	1553.6
77.5°	104.3	112.5	145.5	211.4	345.9	410.4	1806.1	2274.1	1983.2	1029.3	396.6
80°	61.8	67.2	89.2	124.9	177.0	159.2	387.0	514.7	662.9	307.4	119.4
82.5°	28.8	32.9	57.6	82.3	89.2	67.2	113.9	138.6	186.7	151.0	49.4
85°	0.0	0.0	19.2	34.3	32.9	19.2	31.6	34.3	50.8	75.5	19.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	2.7	4.1	8.2	15.1	8.2
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°	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7
2.5°	1537.1	1527.5	1538.5	1533.0	1538.5	1537.1	1526.2	1519.3	1519.3	1506.9	1502.8
5°	1556.4	1546.7	1549.5	1537.1	1534.4	1527.5	1513.8	1508.3	1508.3	1496.0	1491.9
7.5°	1598.9	1583.8	1581.1	1556.4	1545.4	1526.2	1501.5	1491.9	1490.5	1478.1	1474.0
10°	1666.2	1648.3	1636.0	1604.4	1572.8	1534.4	1482.2	1438.3	1413.6	1380.7	1377.9
12.5°	1748.5	1726.5	1707.3	1659.3	1607.1	1520.7	1367.0	1206.4	1107.6	1029.3	1034.8
15°	1840.5	1819.9	1789.7	1716.9	1609.9	1384.8	1063.6	816.6	695.8	631.3	628.6
17.5°	1940.6	1910.4	1861.0	1762.2	1523.4	1058.2	691.7	488.6	425.5	403.5	398.0
20°	2034.0	1996.9	1935.2	1771.8	1273.6	716.4	432.3	378.8	367.8	361.0	361.0
22.5°	2132.8	2086.1	1994.2	1697.7	947.0	458.4	367.8	355.5	347.2	337.6	336.2
25°	2233.0	2172.6	2047.7	1504.2	620.3	361.0	344.5	330.8	315.7	300.6	296.4
27.5°	2318.1	2239.8	2088.9	1216.0	398.0	325.3	314.3	291.0	270.4	253.9	251.2
30°	2419.6	2319.4	2106.7	889.3	312.9	286.8	270.4	245.7	221.0	204.5	199.0
32.5°	2555.5	2445.7	2079.3	579.2	277.2	252.5	226.5	197.6	172.9	155.1	152.3
35°	2766.9	2636.5	1953.0	369.2	251.2	218.2	186.7	156.5	135.9	122.1	119.4
37.5°	3024.9	2904.1	1745.8	277.2	225.1	189.4	152.3	123.5	108.4	98.8	96.1
40°	3407.8	3239.0	1489.1	242.9	199.0	160.6	124.9	101.6	90.6	82.3	79.6
42.5°	3904.6	3634.2	1194.0	221.0	174.3	134.5	101.6	83.7	74.1	68.6	67.2
45°	4485.2	4019.9	882.5	199.0	151.0	111.2	83.7	68.6	61.8	57.6	56.3
47.5°	5079.4	4357.5	609.4	175.7	129.0	92.0	70.0	59.0	53.5	48.0	46.7
50°	5713.5	4643.0	415.9	152.3	109.8	75.5	60.4	53.5	46.7	42.5	41.2
52.5°	6178.8	4748.7	289.6	131.8	93.3	64.5	53.5	48.0	42.5	37.1	35.7
55°	6608.3	4745.9	219.6	111.2	79.6	56.3	48.0	42.5	37.1	32.9	31.6
57.5°	7036.5	4708.9	172.9	94.7	68.6	50.8	42.5	37.1	34.3	28.8	27.4
60°	7313.8	4568.9	134.5	79.6	59.0	43.9	37.1	32.9	28.8	24.7	23.3
62.5°	7460.6	4374.0	102.9	63.1	48.0	38.4	32.9	28.8	24.7	20.6	19.2
65°	7261.6	4028.1	81.0	49.4	37.1	32.9	27.4	23.3	19.2	15.1	13.7
67.5°	6379.1	3396.8	63.1	39.8	28.8	24.7	23.3	19.2	13.7	11.0	9.6
70°	4508.5	2326.3	49.4	30.2	22.0	19.2	17.8	15.1	11.0	8.2	6.9
72.5°	2474.5	1173.4	35.7	22.0	16.5	15.1	13.7	12.4	9.6	6.9	6.9
75°	952.5	322.5	26.1	15.1	11.0	11.0	9.6	9.6	8.2	5.5	5.5
77.5°	248.4	96.1	16.5	9.6	6.9	6.9	6.9	5.5	5.5	4.1	4.1
80°	79.6	31.6	9.6	6.9	5.5	4.1	4.1	2.7	4.1	2.7	2.7
82.5°	26.1	11.0	5.5	5.5	4.1	2.7	2.7	1.4	1.4	0.0	0.0
85°	9.6	5.5	4.1	2.7	2.7	2.7	1.4	0.0	0.0	0.0	0.0
87.5°	5.5	2.7	2.7	2.7	2.7	1.4	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)