

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: P636846

Luminaire Tested: GWS-SA4B-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9142.9 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

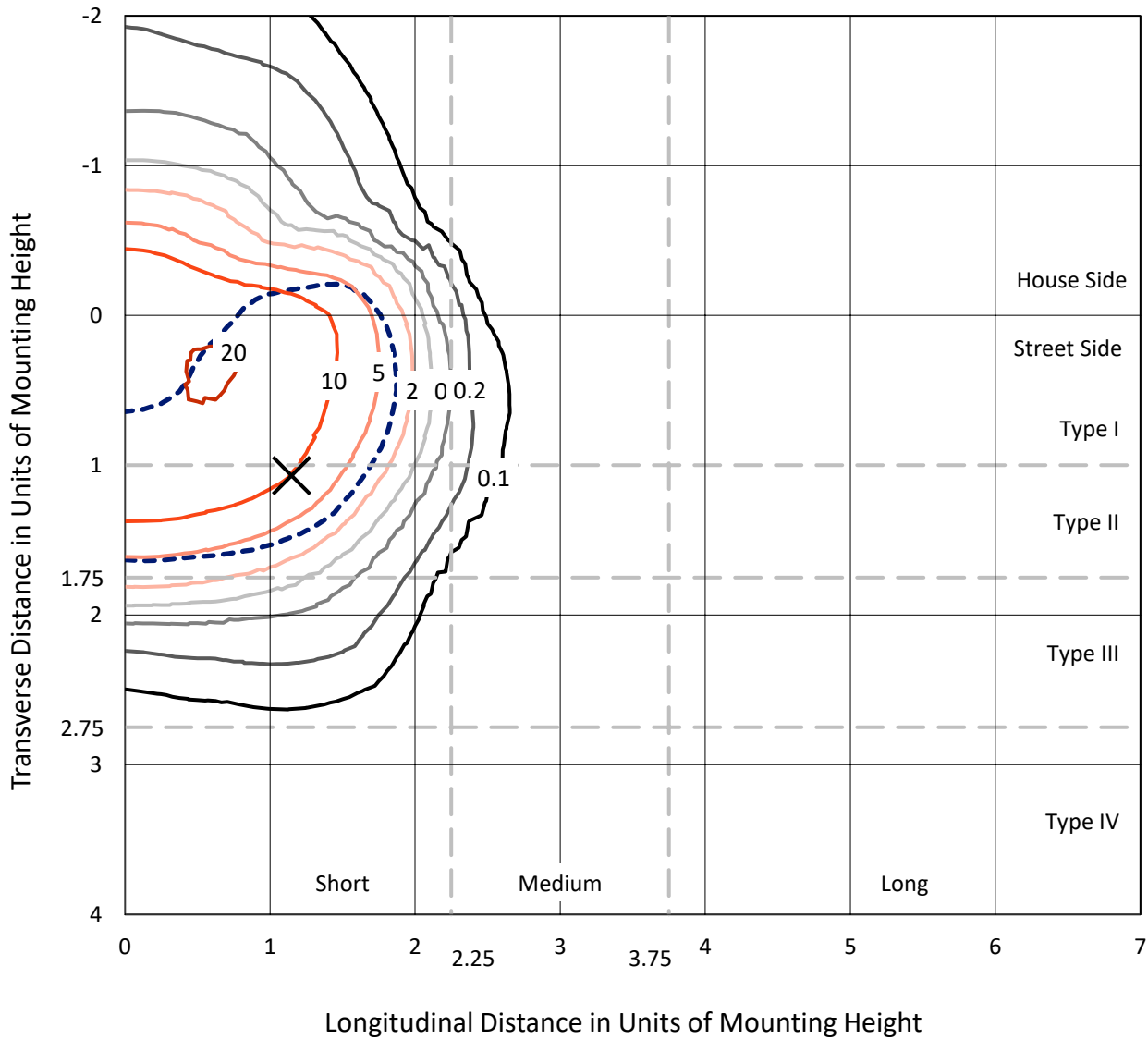
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

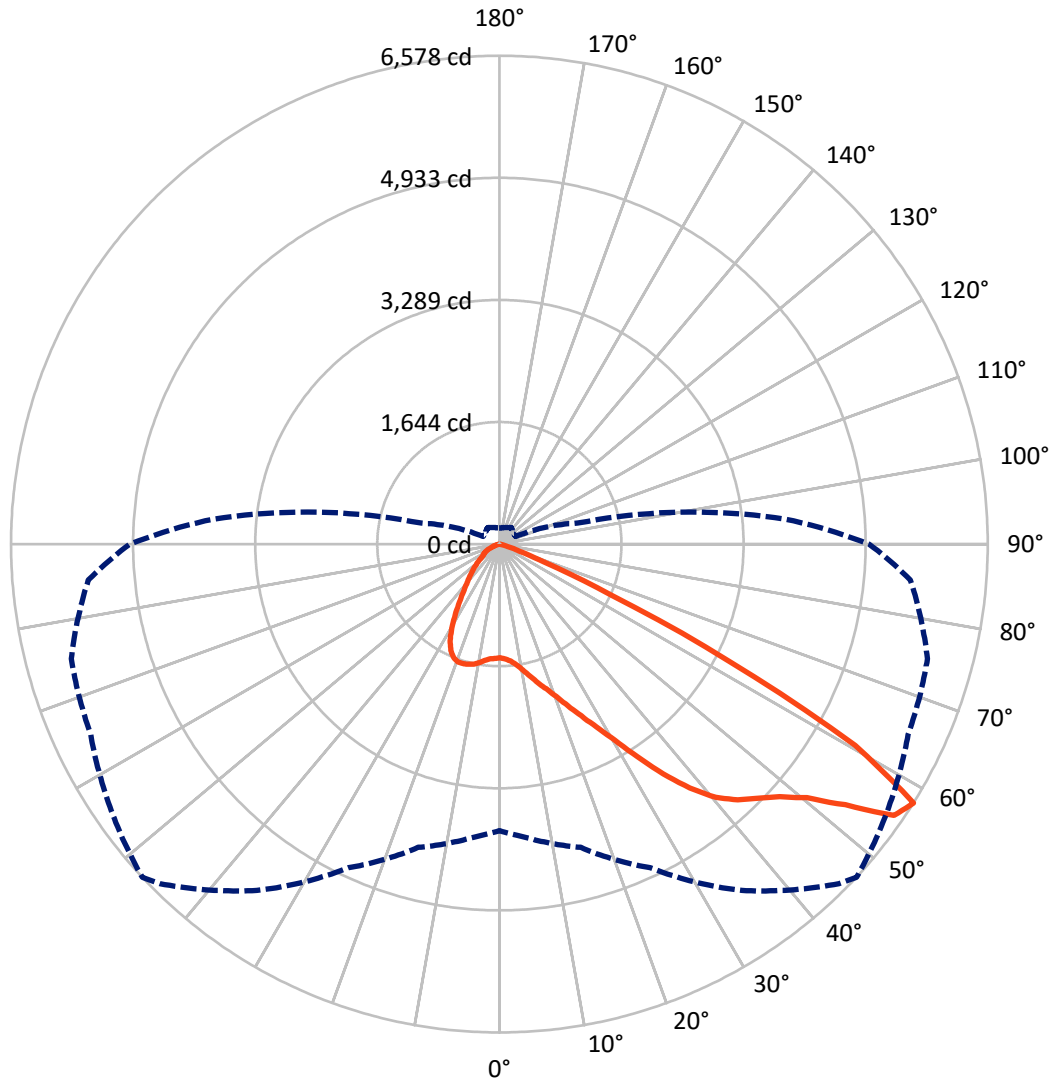
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1983.5	0.0	1983.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7159.4	0.0	7159.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	9142.9	0.0	9142.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	1.7
10°-20°	513.8	5.6
20°-30°	954.0	10.4
30°-40°	1527.2	16.7
40°-50°	2232.4	24.4
50°-60°	2755.1	30.1
60°-70°	920.6	10.1
70°-80°	85.8	0.9
80°-90°	1.8	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°	9142.9	100.0
0°-180°	9142.9	100.0

Coefficient of Utilization



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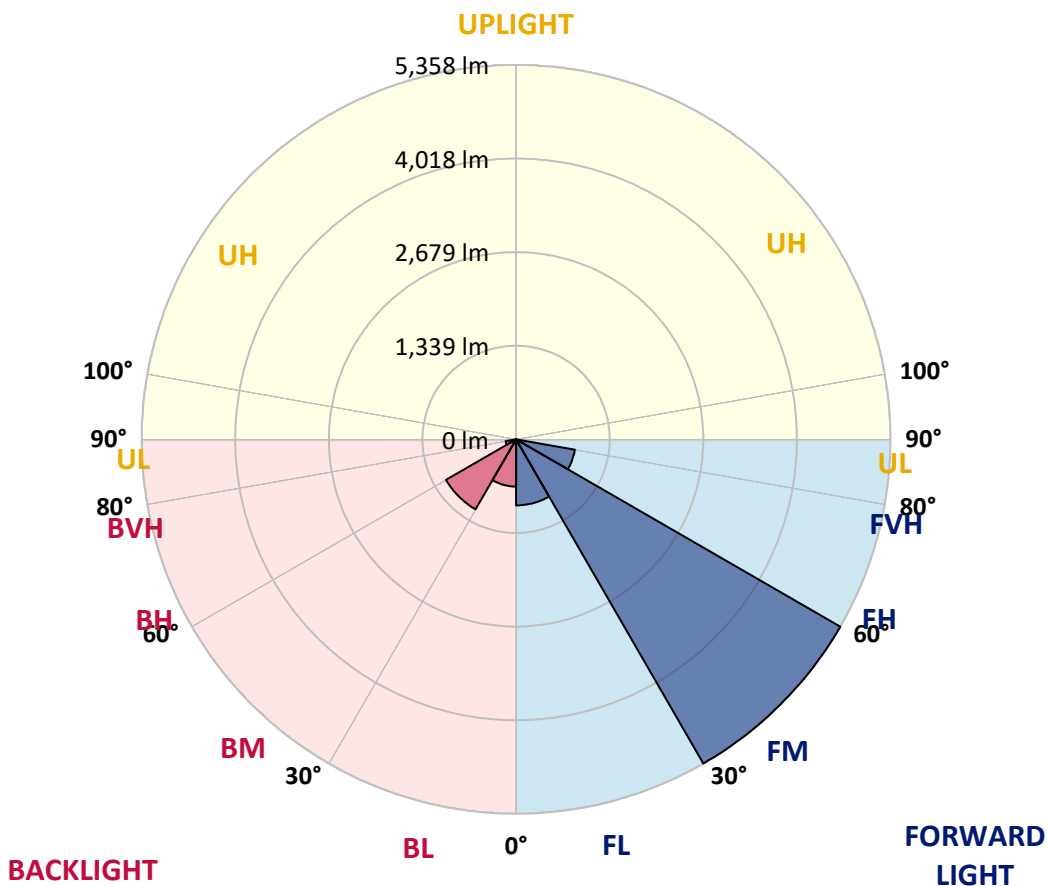
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.9	10.3			
FM (30°-60°)	5357.7	58.6			
FH (60°-80°)	855.6	9.4			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	675.2	7.4	B2/1000		
BM (30°-60°)	1157.0	12.7	B2/2500		
BH (60°-80°)	150.8	1.6	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5
2.5°	1546.5	1545.4	1544.3	1550.7	1548.6	1547.5	1549.6	1549.6	1549.6	1543.3	1530.5
5°	1583.6	1583.6	1582.5	1588.9	1583.6	1580.4	1581.5	1581.5	1577.2	1565.6	1549.6
7.5°	1642.0	1639.9	1637.7	1644.1	1638.8	1637.7	1639.9	1633.5	1626.1	1607.0	1584.7
10°	1725.8	1725.8	1722.6	1729.0	1724.8	1722.6	1722.6	1718.4	1704.6	1674.9	1642.0
12.5°	1841.5	1836.2	1828.8	1823.5	1821.4	1820.3	1821.4	1815.0	1800.1	1761.9	1716.3
15°	1967.8	1963.6	1951.9	1943.4	1931.7	1929.6	1936.0	1930.7	1915.8	1863.8	1799.1
17.5°	2127.0	2132.3	2102.6	2084.6	2050.6	2048.5	2050.6	2059.1	2048.5	1981.6	1887.2
20°	2262.9	2267.1	2244.8	2232.1	2201.3	2187.5	2191.8	2205.6	2193.9	2115.4	1983.7
22.5°	2408.3	2413.6	2390.3	2363.7	2349.9	2349.9	2365.8	2385.0	2369.0	2266.1	2094.1
25°	2582.4	2586.6	2567.5	2532.5	2508.1	2538.9	2562.2	2613.2	2586.6	2446.5	2224.7
27.5°	2781.9	2783.0	2755.4	2719.3	2706.6	2763.9	2787.2	2865.8	2855.2	2649.2	2362.7
30°	2995.3	2996.3	2989.9	2965.5	2953.9	3029.2	3061.1	3174.6	3167.2	2900.8	2550.5
32.5°	3217.1	3217.1	3228.8	3226.6	3240.4	3363.6	3414.5	3544.0	3536.6	3208.6	2784.0
35°	3440.0	3441.0	3461.2	3512.2	3569.5	3732.9	3799.8	3956.9	3939.9	3576.9	3082.3
37.5°	3693.7	3683.0	3710.6	3787.1	3914.4	4103.4	4167.0	4316.7	4297.6	3953.7	3471.8
40°	3999.3	3980.2	3980.2	4069.4	4213.7	4431.3	4485.5	4559.8	4495.0	4258.3	3853.9
42.5°	4336.9	4318.8	4295.5	4374.0	4495.0	4664.8	4709.4	4689.2	4636.2	4546.0	4289.1
45°	4678.6	4651.0	4667.0	4714.7	4784.8	4865.4	4882.4	4789.0	4764.6	4790.1	4648.9
47.5°	4938.7	4919.6	4958.8	5025.7	5083.0	5094.7	5083.0	4953.5	4951.4	5041.6	4898.3
50°	5025.7	5027.8	5136.1	5282.6	5374.9	5384.5	5368.5	5219.9	5199.8	5226.3	5033.1
52.5°	5034.2	5042.7	5200.8	5480.0	5731.5	5846.2	5833.4	5673.2	5475.7	5447.1	5236.9
55°	4829.3	4879.2	5100.0	5507.6	6042.5	6408.7	6451.2	6144.4	5851.5	5827.1	5675.3
57.5°	3860.3	3962.2	4228.6	4809.2	5695.4	6467.1	6577.5	6356.7	6073.3	5969.3	5557.5
60°	2307.5	2433.8	2689.6	3401.8	4334.7	5315.5	5505.5	5536.2	5405.7	5105.3	4263.6
62.5°	990.3	979.7	1294.9	1840.5	2578.1	3378.4	3464.4	3598.1	3711.7	3397.5	2587.7
65°	339.6	369.4	513.7	830.0	1290.7	1568.7	1645.2	1765.1	1926.4	1590.0	947.8
67.5°	210.2	222.9	296.1	490.4	696.3	685.7	651.7	632.6	615.6	421.4	260.0
70°	152.8	163.5	208.0	337.5	468.1	329.0	285.5	231.4	256.9	236.7	184.7
72.5°	103.0	111.4	143.3	204.8	239.9	160.3	148.6	168.8	203.8	194.2	150.7
75°	61.6	66.9	81.7	99.8	97.6	82.8	83.9	118.9	156.0	145.4	107.2
77.5°	42.5	44.6	54.1	64.7	47.8	25.5	23.4	32.9	53.1	53.1	36.1
80°	10.6	13.8	13.8	8.5	7.4	6.4	6.4	9.6	14.9	10.6	5.3
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
87.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1
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°	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5	1530.5
2.5°	1538.0	1525.2	1533.7	1531.6	1538.0	1540.1	1530.5	1528.4	1529.5	1516.7	1512.5
5°	1552.8	1538.0	1542.2	1538.0	1545.4	1551.8	1548.6	1552.8	1558.1	1548.6	1544.3
7.5°	1584.7	1569.8	1568.7	1562.4	1573.0	1577.2	1576.2	1587.8	1598.5	1592.1	1585.7
10°	1639.9	1619.7	1617.6	1612.3	1615.4	1618.6	1607.0	1609.1	1618.6	1611.2	1608.0
12.5°	1707.8	1683.4	1678.1	1665.3	1665.3	1649.4	1623.9	1618.6	1626.1	1620.7	1615.4
15°	1781.0	1748.1	1739.6	1717.3	1696.1	1666.4	1639.9	1633.5	1638.8	1632.4	1628.2
17.5°	1862.7	1825.6	1798.0	1758.7	1712.0	1677.0	1647.3	1633.5	1625.0	1612.3	1611.2
20°	1943.4	1894.6	1847.9	1785.3	1723.7	1670.6	1621.8	1585.7	1554.9	1535.8	1528.4
22.5°	2036.8	1964.6	1889.3	1801.2	1713.1	1632.4	1546.5	1484.9	1431.8	1413.8	1405.3
25°	2136.6	2043.2	1930.7	1816.0	1677.0	1547.5	1430.8	1339.5	1269.4	1246.1	1236.5
27.5°	2247.0	2118.5	1973.1	1812.9	1602.7	1426.5	1271.6	1158.0	1089.0	1067.8	1075.2
30°	2387.1	2216.2	2026.2	1780.0	1491.3	1256.7	1075.2	979.7	927.7	907.5	908.6
32.5°	2573.9	2356.3	2103.7	1709.9	1348.0	1063.5	904.3	834.3	799.2	772.7	770.6
35°	2841.4	2569.6	2175.9	1597.4	1173.9	891.6	775.9	720.7	671.9	641.1	646.4
37.5°	3161.9	2838.2	2215.1	1445.6	978.6	757.8	679.3	623.0	567.8	522.2	527.5
40°	3541.9	3189.5	2211.9	1246.1	800.3	666.6	598.6	532.8	463.8	422.4	426.7
42.5°	3965.4	3521.7	2143.0	1034.9	663.4	592.3	521.1	438.4	371.5	346.0	347.1
45°	4332.6	3791.3	2022.0	816.2	558.3	520.1	440.5	355.6	325.8	307.8	306.7
47.5°	4604.3	3988.7	1848.9	642.1	473.4	454.3	361.9	318.4	295.1	280.2	278.1
50°	4756.1	4057.7	1657.9	503.1	400.1	385.3	323.7	288.7	272.8	263.2	261.1
52.5°	4959.9	4140.5	1521.0	397.0	335.4	315.2	298.3	268.5	257.9	250.5	247.3
55°	5282.6	4300.8	1402.1	315.2	279.1	274.9	281.3	256.9	250.5	238.8	234.6
57.5°	4979.0	3863.5	1089.0	244.1	235.6	251.6	271.7	245.2	229.3	218.6	214.4
60°	3503.7	2568.6	547.7	196.4	210.2	235.6	255.8	221.8	205.9	208.0	205.9
62.5°	1931.7	1285.3	246.2	164.5	182.6	208.0	218.6	192.1	181.5	199.5	202.7
65°	631.5	437.3	142.2	127.4	144.3	169.8	188.9	182.6	180.4	201.7	208.0
67.5°	194.2	144.3	96.6	91.3	99.8	125.2	159.2	197.4	212.3	218.6	221.8
70°	145.4	113.6	82.8	77.5	81.7	95.5	134.8	164.5	155.0	156.0	153.9
72.5°	116.8	90.2	71.1	67.9	67.9	65.8	71.1	89.2	100.8	106.1	106.1
75°	81.7	63.7	54.1	49.9	39.3	31.8	28.7	28.7	25.5	24.4	23.4
77.5°	27.6	23.4	21.2	17.0	11.7	9.6	8.5	7.4	5.3	3.2	2.1
80°	4.2	3.2	2.1	2.1	2.1	1.1	1.1	1.1	0.0	0.0	0.0
82.5°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	0.0	0.0	0.0	0.0
85°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	1.1	1.1	1.1	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)