

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: P631038

Luminaire Tested: GWS-SA1E-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

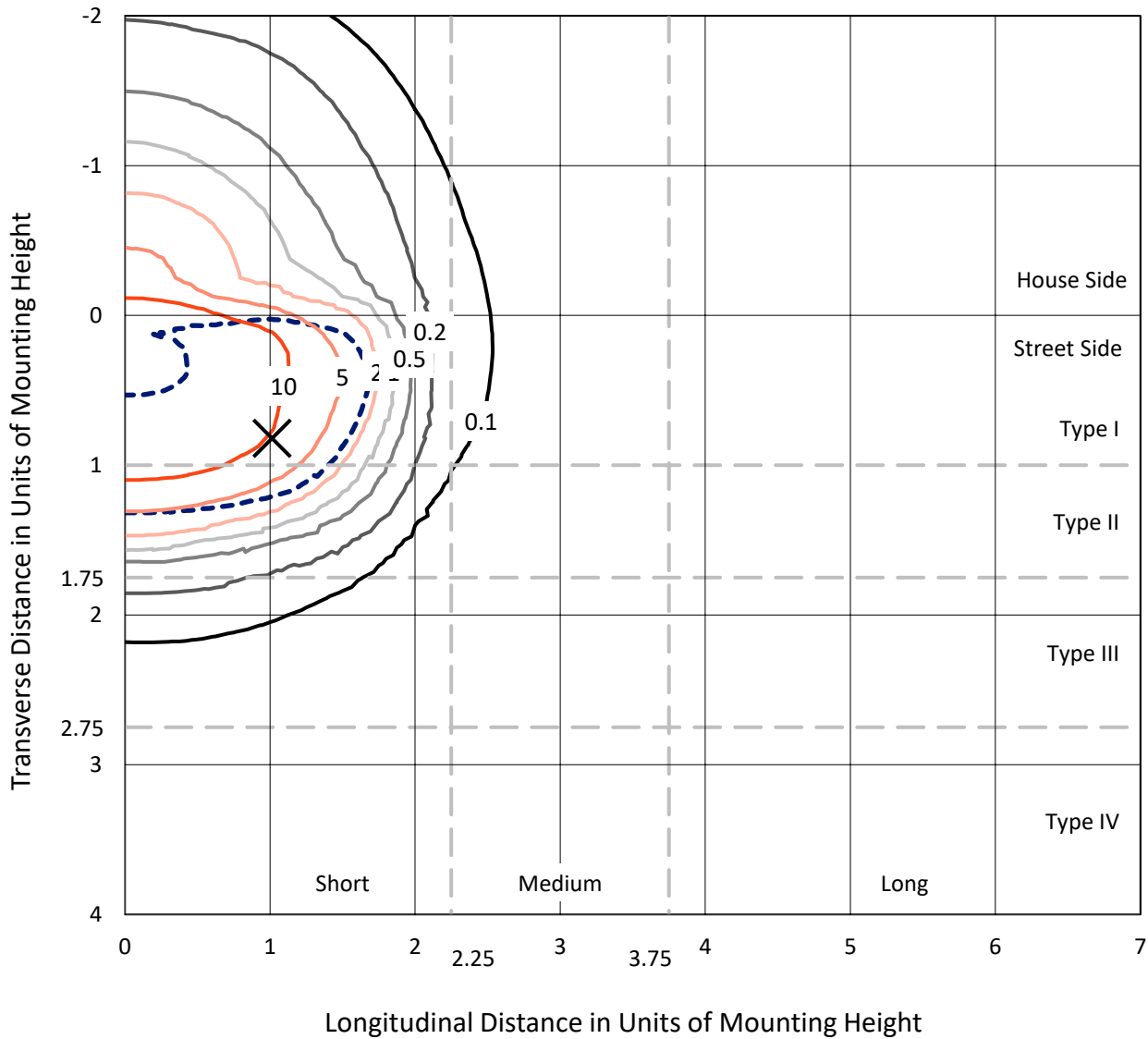
Lumens per Lamp: N/A  
Luminaire Lumens: 5460.9 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

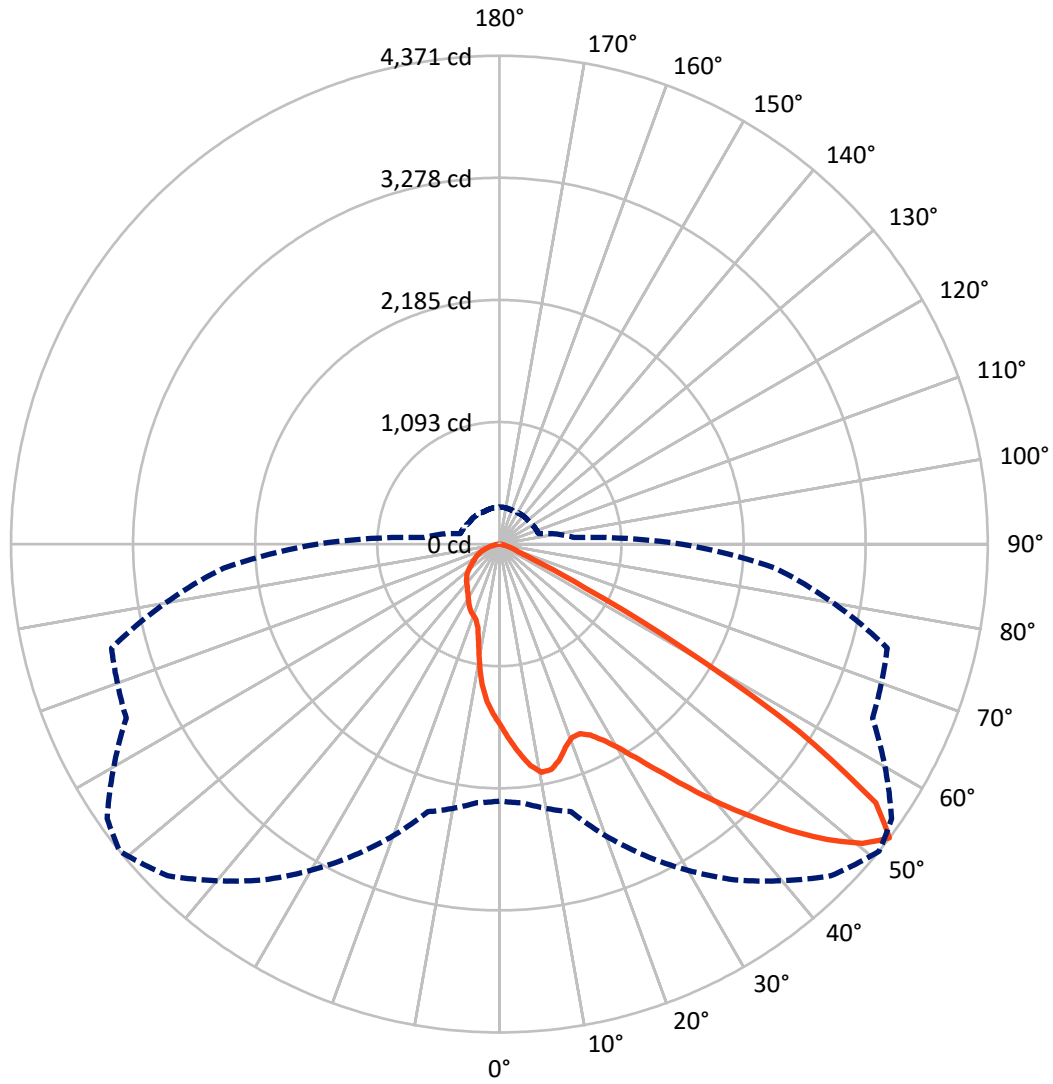
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1064.0	0.0	1064.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	4396.9	0.0	4396.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	5460.9	0.0	5460.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.7	2.8
10°-20°	394.2	7.2
20°-30°	641.0	11.7
30°-40°	1015.9	18.6
40°-50°	1532.1	28.1
50°-60°	1325.4	24.3
60°-70°	300.5	5.5
70°-80°	88.6	1.6
80°-90°	11.4	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°	5460.9	100.0
0°-180°	5460.9	100.0

**Coefficient of Utilization**



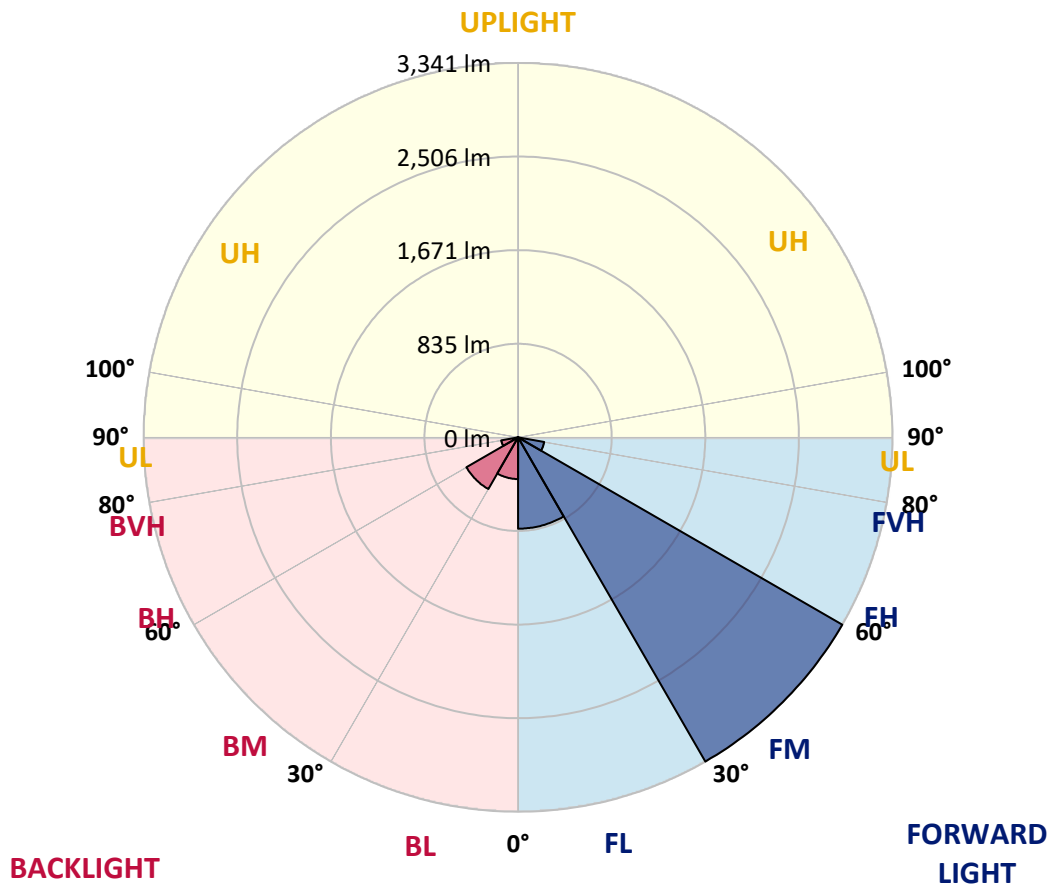
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.1	14.9			
FM (30°-60°)	3341.1	61.2			
FH (60°-80°)	236.5	4.3			G0/660
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	371.9	6.8	B1/500		
BM (30°-60°)	532.4	9.7	B1/1000		
BH (60°-80°)	152.6	2.8	B1/500		G1/500
BVH (80°-90°)	7.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0
2.5°	1812.0	1822.3	1806.4	1800.3	1790.4	1773.1	1753.3	1747.7	1705.0	1676.9	1645.4
5°	1994.1	1999.7	1986.7	1973.8	1949.2	1918.6	1880.2	1872.0	1794.3	1730.0	1663.1
7.5°	2034.6	2032.5	2043.7	2051.0	2048.0	2035.9	2001.8	1985.9	1893.1	1791.3	1692.4
10°	1874.1	1862.0	1903.5	1952.6	2011.8	2079.9	2076.1	2074.8	1994.1	1873.7	1730.0
12.5°	1661.4	1655.3	1689.0	1750.7	1862.5	2013.5	2070.0	2114.0	2085.1	1952.2	1771.8
15°	1539.7	1537.5	1560.4	1604.8	1693.7	1884.5	2005.3	2092.5	2163.2	2036.4	1816.3
17.5°	1517.7	1519.0	1526.7	1552.2	1616.1	1773.1	1912.9	2034.6	2224.1	2128.7	1872.0
20°	1582.0	1590.6	1577.2	1581.1	1615.6	1733.0	1849.9	1976.4	2262.9	2221.5	1931.9
22.5°	1724.8	1721.8	1692.4	1675.2	1675.6	1757.6	1843.0	1949.2	2288.4	2311.7	1986.3
25°	1886.6	1883.2	1848.2	1809.8	1785.6	1824.5	1892.7	1978.1	2311.2	2394.1	2029.9
27.5°	2077.8	2067.0	2028.2	1979.0	1925.5	1942.3	1988.5	2056.2	2346.6	2475.2	2058.8
30°	2262.9	2275.4	2219.8	2161.5	2105.0	2094.6	2121.4	2182.6	2418.7	2570.2	2093.3
32.5°	2508.4	2504.1	2442.4	2366.5	2285.8	2278.0	2299.2	2355.3	2548.1	2701.3	2146.0
35°	2805.8	2806.6	2719.0	2616.3	2501.5	2480.8	2516.2	2570.6	2741.0	2879.1	2229.3
37.5°	3114.7	3113.4	3037.1	2920.6	2763.9	2734.6	2775.1	2815.7	2982.3	3121.2	2358.7
40°	3331.4	3340.0	3304.2	3242.9	3094.5	3022.8	3058.6	3086.7	3244.6	3406.0	2529.2
42.5°	3454.3	3467.3	3475.1	3511.7	3433.6	3357.3	3344.3	3359.0	3478.9	3670.5	2689.3
45°	3480.7	3497.9	3554.5	3690.4	3720.6	3699.0	3656.7	3621.3	3653.7	3858.3	2794.1
47.5°	3364.6	3394.8	3515.6	3753.4	3929.9	3997.6	3950.6	3896.7	3754.7	3906.6	2783.3
50°	2904.6	2940.0	3212.3	3624.8	3959.7	4206.5	4210.8	4131.0	3742.6	3767.2	2647.8
52.5°	2299.6	2323.8	2479.5	3072.9	3667.5	4197.9	4370.5	4285.0	3684.4	3592.9	2478.2
55°	1374.4	1413.2	1558.7	2027.3	2857.1	3720.6	4088.3	4129.7	3655.9	3446.6	2362.6
57.5°	463.9	482.9	621.8	895.4	1683.8	2724.2	3158.8	3327.0	3318.9	3223.1	2136.9
60°	220.9	225.3	253.3	339.6	674.0	1423.6	1869.8	2064.0	2240.9	2258.6	1329.5
62.5°	168.3	170.9	185.1	203.7	271.0	599.8	857.0	1005.5	1074.1	921.7	484.2
65°	140.7	142.8	153.6	165.3	184.3	259.8	328.8	379.3	341.8	266.3	230.9
67.5°	117.4	119.1	127.3	139.8	152.8	173.9	182.5	187.7	196.8	220.9	212.3
70°	91.9	93.6	102.3	113.1	125.6	130.8	139.0	144.1	162.3	193.3	192.5
72.5°	70.8	72.9	77.7	84.6	94.9	100.1	109.2	115.2	125.6	150.6	161.0
75°	51.8	53.1	57.4	59.6	60.8	59.6	68.6	75.5	89.3	98.8	101.4
77.5°	21.1	23.7	22.9	22.9	27.2	32.8	37.5	41.9	51.4	57.0	57.4
80°	8.6	9.5	11.2	12.5	15.1	19.4	22.4	24.2	28.5	31.9	34.5
82.5°	5.2	5.6	6.5	6.9	8.6	11.2	12.9	14.2	17.7	21.1	22.4
85°	2.6	2.6	3.0	3.5	4.3	5.2	6.0	6.9	9.1	11.2	12.5
87.5°	0.4	0.4	0.4	0.9	1.3	1.7	2.2	2.6	3.0	3.5	4.3
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°	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0
2.5°	1626.8	1603.5	1576.4	1554.8	1529.8	1511.2	1484.9	1468.5	1452.9	1440.0	1430.5
5°	1628.6	1589.3	1532.8	1482.7	1430.9	1381.7	1331.3	1290.3	1253.6	1222.9	1220.3
7.5°	1638.5	1582.0	1493.5	1405.9	1304.9	1207.4	1109.9	1030.5	970.1	938.6	932.1
10°	1655.3	1581.1	1453.4	1313.6	1141.4	984.3	868.7	808.2	773.3	760.8	756.5
12.5°	1673.0	1578.9	1402.0	1183.2	944.2	806.5	743.1	735.7	742.2	743.1	742.7
15°	1694.6	1577.7	1337.3	1030.5	800.0	724.1	728.4	743.9	759.1	762.5	762.5
17.5°	1720.9	1574.6	1249.3	881.2	709.9	708.1	731.0	751.7	766.0	768.5	768.5
20°	1748.5	1566.9	1140.9	759.5	673.2	698.2	722.8	738.8	748.7	752.1	752.6
22.5°	1767.5	1546.2	1016.2	669.3	650.3	679.2	696.9	713.3	713.3	704.7	702.1
25°	1771.4	1501.7	881.2	607.6	623.1	649.9	668.0	658.5	640.8	633.9	633.5
27.5°	1757.2	1437.0	747.8	563.6	590.3	617.1	614.1	600.2	592.5	585.6	588.2
30°	1739.9	1359.3	632.2	527.3	552.4	578.7	568.3	563.6	558.0	550.2	551.9
32.5°	1728.3	1272.6	543.3	499.3	526.9	531.2	538.5	538.1	532.9	518.3	517.4
35°	1731.7	1185.0	483.7	476.4	505.7	504.0	517.8	515.2	479.4	459.1	457.8
37.5°	1759.3	1100.8	448.8	458.3	472.1	482.9	495.0	463.9	451.4	438.4	439.3
40°	1812.0	1022.7	429.8	448.4	451.8	467.8	439.7	439.3	433.7	422.0	421.6
42.5°	1871.5	956.7	416.9	443.6	438.9	441.9	412.1	415.6	415.1	407.8	405.6
45°	1907.8	895.8	406.5	425.9	427.2	397.0	387.9	391.8	394.0	390.1	389.7
47.5°	1870.2	825.9	395.7	398.7	409.9	376.7	365.5	365.9	369.8	370.2	368.5
50°	1764.9	747.8	382.8	375.4	368.1	355.6	345.2	343.1	346.9	350.8	352.1
52.5°	1629.0	673.2	361.2	350.0	332.7	332.7	328.0	321.1	326.2	331.4	333.1
55°	1529.3	617.9	330.5	318.0	299.0	305.5	304.7	298.6	305.5	309.4	310.7
57.5°	1325.2	496.7	290.8	287.0	271.0	278.8	280.5	272.7	269.3	270.1	271.4
60°	786.7	320.6	262.4	261.9	247.7	256.8	261.9	254.2	243.8	245.1	246.8
62.5°	353.0	245.1	226.6	224.8	224.4	236.0	241.7	234.3	219.6	220.9	222.7
65°	222.2	211.9	196.8	196.8	203.7	213.6	217.9	211.9	195.0	192.9	194.6
67.5°	206.3	197.2	181.7	178.7	182.1	190.3	190.7	179.1	169.2	167.4	167.4
70°	185.1	178.2	163.1	157.1	155.8	155.3	154.1	151.0	144.6	142.8	143.7
72.5°	153.2	148.4	139.0	132.5	129.0	128.6	123.4	120.8	115.2	114.4	113.9
75°	101.4	102.7	102.7	101.8	98.8	97.5	91.9	89.3	82.9	80.3	79.8
77.5°	60.0	61.3	63.0	63.4	63.0	63.0	57.8	54.8	48.3	44.9	44.0
80°	36.7	37.5	38.4	39.7	38.0	36.7	31.9	28.9	25.9	23.7	23.3
82.5°	23.7	24.6	25.0	25.9	25.0	23.3	19.4	17.7	15.5	13.8	13.4
85°	13.4	13.8	14.7	14.7	13.4	12.1	9.9	8.6	7.3	6.5	6.5
87.5°	4.7	4.7	4.7	5.2	4.3	3.9	2.6	1.7	1.3	1.3	1.3
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)