

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: P633263

Luminaire Tested: GWS-SA2E-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633263  
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-SA2E-735-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

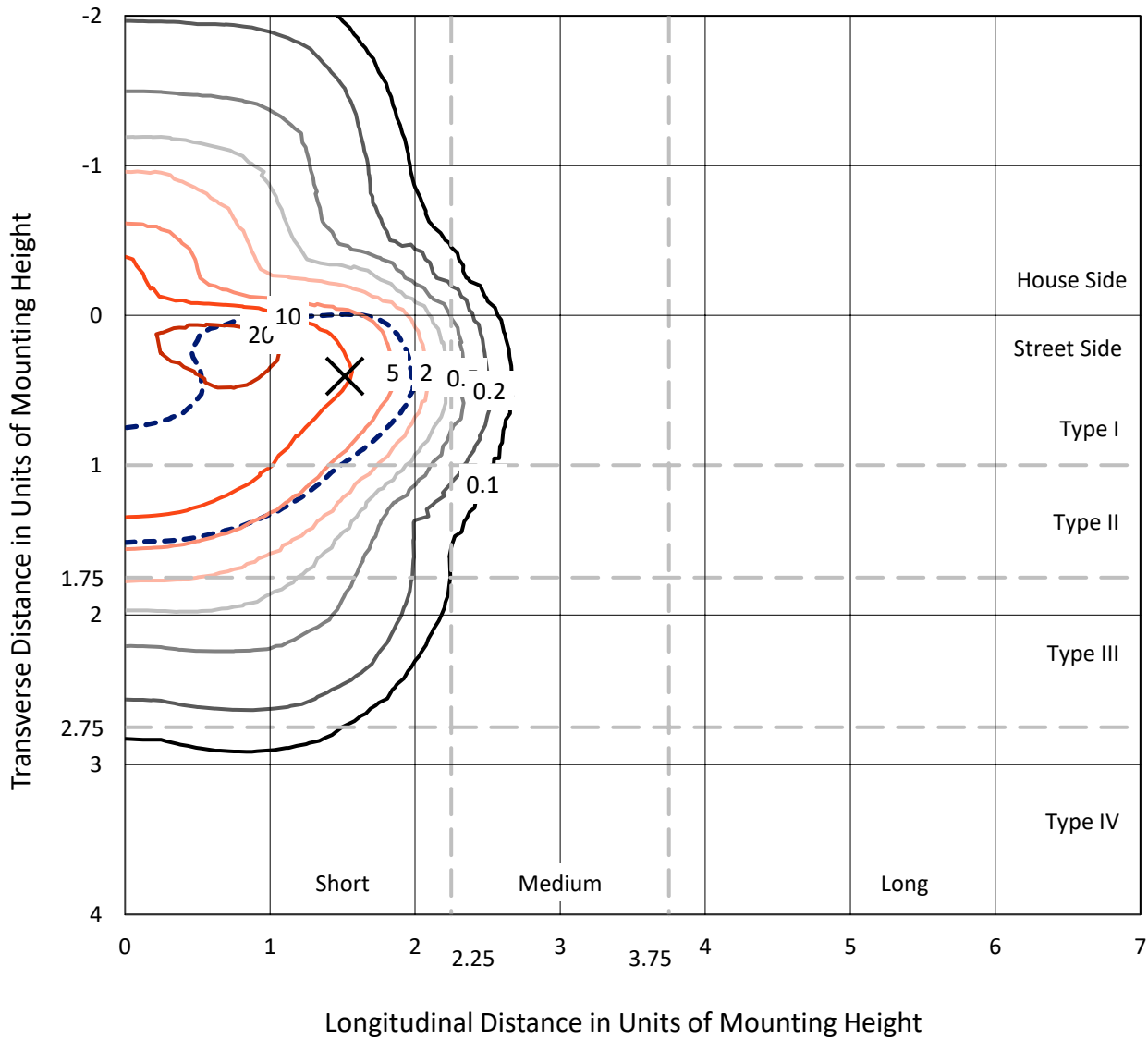
Lumens per Lamp: N/A  
Luminaire Lumens: 8548.3 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

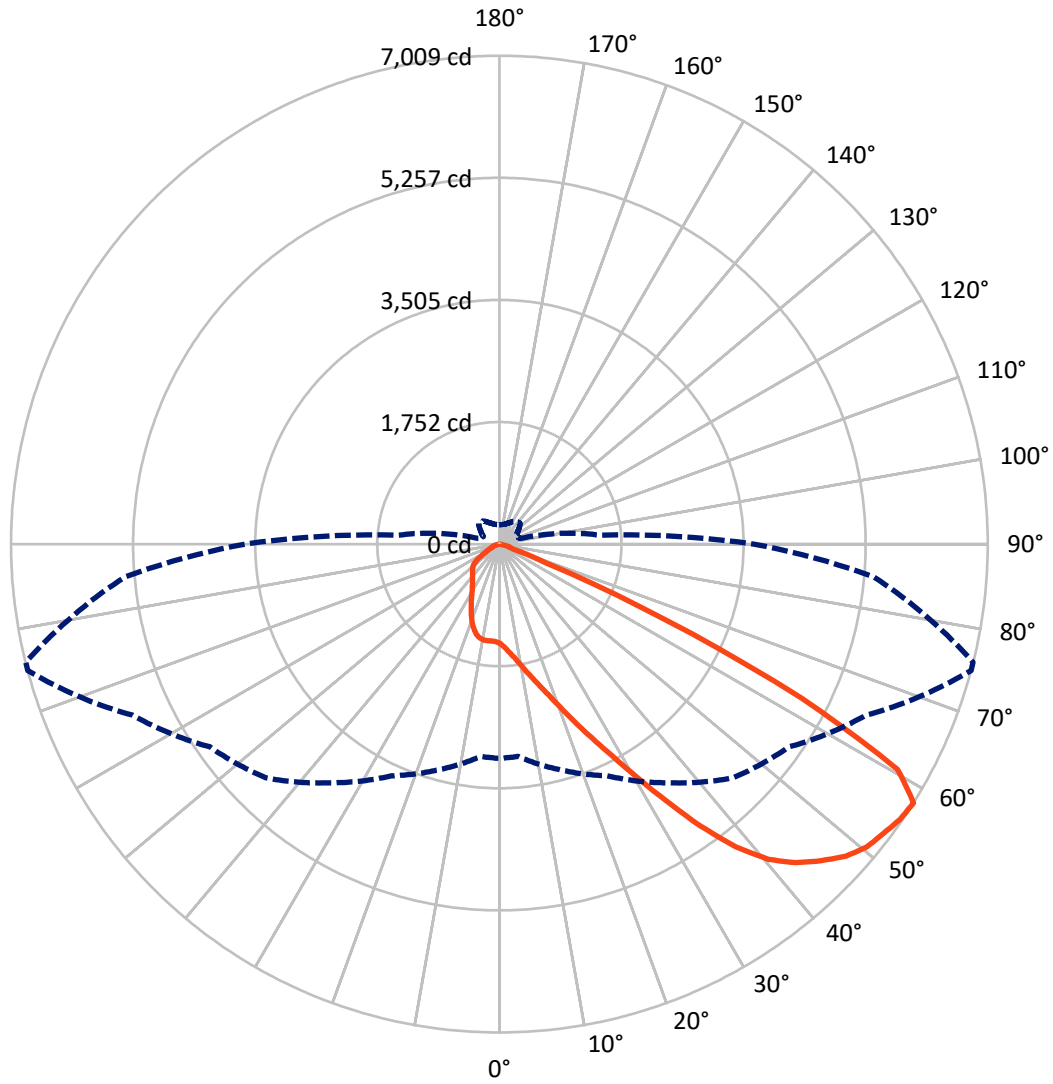
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.6 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
<b>House Side</b>	Lumens	1396.3	0.0	1396.3
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	7152.0	0.0	7152.0
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	8548.3	0.0	8548.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.1	1.7
10°-20°	471.3	5.5
20°-30°	863.0	10.1
30°-40°	1431.8	16.8
40°-50°	2186.8	25.6
50°-60°	2457.2	28.7
60°-70°	906.3	10.6
70°-80°	86.6	1.0
80°-90°	0.1	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°	8548.3	100.0
0°-180°	8548.3	100.0

**Coefficient of Utilization**



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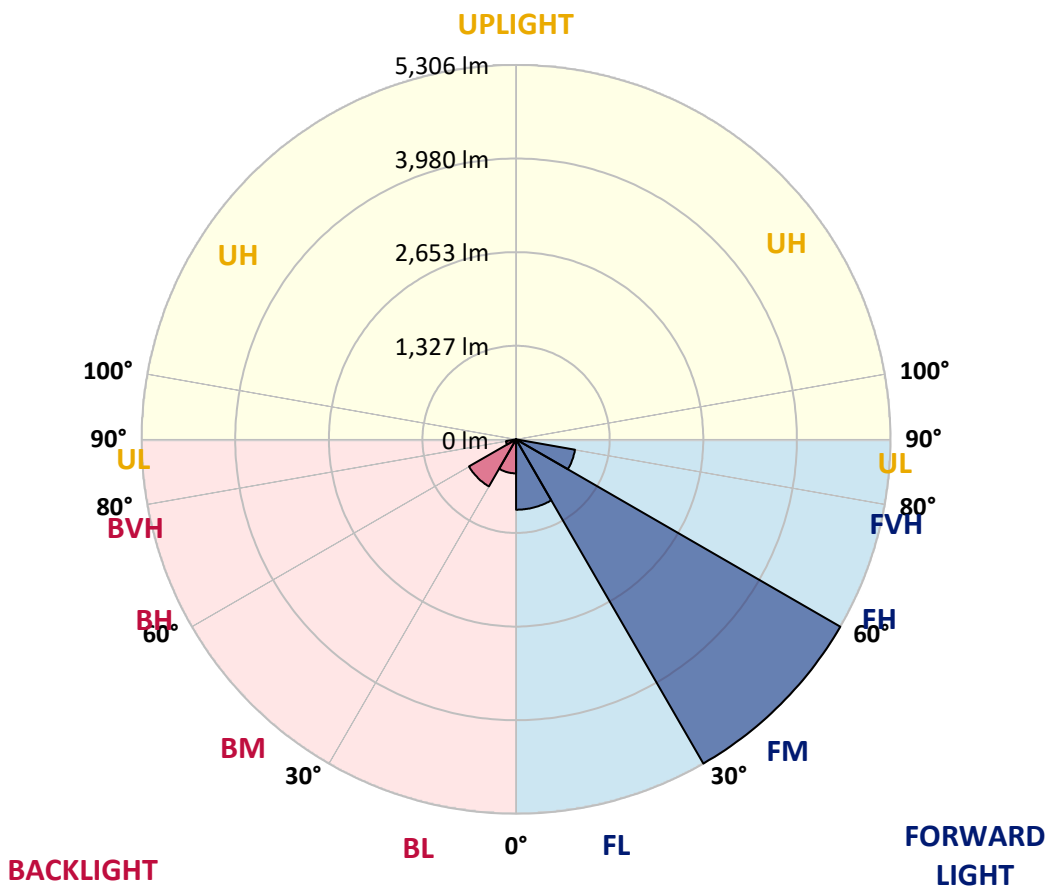
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	997.6	11.7			
FM (30°-60°)	5306.4	62.1			
FH (60°-80°)	848.0	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	481.8	5.6	B1/500		
BM (30°-60°)	769.5	9.0	B1/1000		
BH (60°-80°)	145.0	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7
2.5°	1592.9	1609.4	1604.2	1593.9	1587.7	1566.0	1552.6	1513.4	1485.6	1482.5	1456.7
5°	1794.0	1790.9	1786.8	1774.4	1764.1	1730.1	1689.8	1623.8	1565.0	1557.8	1503.1
7.5°	1904.4	1906.5	1908.5	1906.5	1899.3	1873.5	1829.1	1751.7	1662.0	1655.8	1569.1
10°	1949.8	1953.9	1964.3	1983.9	2001.4	1999.3	1973.5	1894.1	1783.7	1773.4	1656.8
12.5°	1971.5	1976.6	1993.1	2030.3	2077.7	2114.9	2119.0	2047.8	1926.1	1909.6	1761.0
15°	2001.4	2006.6	2027.2	2075.7	2144.8	2218.0	2265.5	2220.1	2083.9	2066.4	1875.5
17.5°	2014.8	2022.0	2051.9	2115.9	2205.7	2318.1	2425.4	2421.3	2270.7	2257.2	2008.6
20°	2040.6	2045.8	2072.6	2141.7	2250.0	2412.0	2592.5	2657.5	2498.7	2479.0	2169.6
22.5°	2122.1	2124.2	2136.5	2179.9	2281.0	2480.1	2762.8	2933.0	2767.9	2742.1	2350.1
25°	2255.2	2254.2	2259.3	2266.5	2340.8	2549.2	2926.8	3243.5	3076.4	3048.5	2554.4
27.5°	2424.4	2424.4	2436.8	2416.1	2446.0	2634.8	3088.8	3600.5	3435.4	3396.2	2778.2
30°	2623.5	2622.4	2651.3	2618.3	2627.6	2770.0	3263.1	3989.4	3868.7	3820.2	3036.1
32.5°	2893.8	2887.6	2920.6	2875.2	2844.3	2974.2	3475.6	4395.9	4387.6	4313.3	3360.1
35°	3235.2	3224.9	3235.2	3190.9	3135.2	3260.0	3754.2	4801.3	4963.3	4884.9	3745.9
37.5°	3574.7	3607.7	3619.0	3542.7	3497.3	3622.1	4089.5	5164.4	5513.1	5431.6	4147.2
40°	3974.9	3964.6	4003.8	3918.2	3889.3	4027.6	4417.5	5434.7	5948.5	5871.1	4504.2
42.5°	4270.0	4288.6	4337.0	4289.6	4266.9	4396.9	4693.0	5592.6	6250.8	6174.4	4759.0
45°	4623.8	4637.3	4655.8	4616.6	4592.9	4720.8	4892.1	5661.7	6480.8	6398.3	4930.2
47.5°	5006.6	5016.9	5016.9	4936.4	4860.1	4912.7	5025.2	5700.9	6692.3	6612.9	5057.1
50°	5281.0	5286.2	5331.6	5274.8	5108.7	5027.2	5086.0	5739.1	6832.6	6758.3	5098.4
52.5°	5037.5	5031.3	5180.9	5298.5	5342.9	5180.9	5191.3	5794.8	6900.7	6836.7	5131.4
55°	4242.1	4231.8	4442.3	4728.0	5119.0	5326.4	5318.1	5827.8	6976.0	6936.8	5251.1
57.5°	3075.3	3057.8	3350.8	3668.5	4181.3	4743.5	5073.6	5809.2	7009.0	7005.9	5390.4
60°	1848.7	1834.3	2110.8	2445.0	2841.2	3406.5	3954.3	5203.6	6567.5	6573.7	5028.3
62.5°	1137.9	1151.3	1401.0	1571.2	1718.7	1888.9	2205.7	3500.4	4865.3	4905.5	3533.4
65°	765.5	775.8	1006.9	1221.5	1221.5	998.6	857.3	1673.3	2595.6	2527.5	1671.3
67.5°	513.8	525.1	707.7	958.4	994.5	696.4	347.7	499.3	723.2	701.5	413.7
70°	302.3	314.7	471.5	657.2	724.2	484.9	232.1	211.5	205.3	199.1	160.9
72.5°	135.1	140.3	240.4	334.3	305.4	204.3	164.0	169.2	159.9	156.8	131.0
75°	41.3	43.3	61.9	72.2	73.2	73.2	99.0	133.1	125.9	126.9	101.1
77.5°	10.3	10.3	16.5	15.5	8.3	7.2	18.6	29.9	30.9	27.9	20.6
80°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7	1425.7
2.5°	1445.3	1418.5	1401.0	1376.2	1358.7	1340.1	1323.6	1310.2	1303.0	1300.9	1301.9
5°	1478.4	1436.1	1394.8	1347.3	1314.3	1283.4	1258.6	1239.0	1229.7	1226.6	1226.6
7.5°	1528.9	1470.1	1396.9	1322.6	1266.9	1218.4	1189.5	1167.8	1159.6	1157.5	1151.3
10°	1594.9	1514.5	1393.8	1278.2	1199.8	1149.3	1128.6	1122.4	1125.5	1126.6	1125.5
12.5°	1674.4	1560.9	1374.2	1213.2	1128.6	1097.7	1099.7	1116.2	1134.8	1144.1	1146.2
15°	1759.0	1603.2	1329.8	1135.8	1067.8	1066.7	1096.6	1134.8	1170.9	1186.4	1190.5
17.5°	1853.9	1637.2	1261.7	1053.3	1015.1	1045.1	1098.7	1157.5	1206.0	1231.8	1236.9
20°	1958.1	1665.1	1175.0	975.9	968.7	1022.4	1096.6	1168.9	1228.7	1257.6	1262.7
22.5°	2066.4	1684.7	1075.0	904.8	926.4	996.6	1077.0	1147.2	1203.9	1236.9	1241.1
25°	2190.2	1686.7	972.8	844.9	887.2	961.5	1029.6	1087.4	1134.8	1163.7	1166.8
27.5°	2298.5	1662.0	882.1	796.4	851.1	918.2	963.6	995.5	1028.6	1045.1	1046.1
30°	2423.3	1618.7	796.4	757.2	814.0	864.5	887.2	894.4	897.5	900.6	896.5
32.5°	2571.9	1566.0	732.5	719.1	771.7	805.7	811.9	797.5	779.9	755.2	749.0
35°	2754.5	1518.6	679.9	681.9	725.2	745.9	740.7	709.8	675.7	645.8	640.7
37.5°	2952.6	1478.4	639.6	645.8	674.7	689.1	673.7	639.6	624.1	598.4	599.4
40°	3128.0	1445.3	603.5	609.7	623.1	636.5	611.8	589.1	618.0	615.9	618.0
42.5°	3252.8	1417.5	572.6	569.5	578.8	588.0	569.5	558.1	606.6	593.2	600.4
45°	3326.0	1391.7	546.8	528.2	542.6	559.2	546.8	532.3	548.8	486.9	481.8
47.5°	3375.6	1377.2	524.1	488.0	513.8	542.6	516.9	481.8	458.1	404.4	400.3
50°	3380.7	1370.0	497.3	446.7	479.7	510.7	480.7	432.3	398.2	374.5	371.4
52.5°	3407.5	1384.5	460.1	394.1	430.2	479.7	459.1	410.6	364.2	343.5	339.4
55°	3527.2	1445.3	398.2	321.9	374.5	456.0	441.5	366.2	321.9	309.5	306.4
57.5°	3651.0	1457.7	313.6	254.8	326.0	421.9	403.4	337.3	294.0	279.6	276.5
60°	3338.4	1200.8	235.2	210.5	287.8	390.0	373.5	319.8	269.3	251.7	248.6
62.5°	2193.3	648.9	186.7	178.5	242.4	330.1	340.4	288.9	240.4	221.8	220.8
65°	1011.0	301.2	143.4	141.3	189.8	263.1	293.0	252.8	203.2	186.7	186.7
67.5°	275.4	149.6	112.4	104.2	129.0	176.4	213.6	188.8	144.4	124.8	123.8
70°	137.2	120.7	101.1	89.8	92.8	109.4	125.9	105.2	73.2	59.8	58.8
72.5°	112.4	99.0	85.6	76.3	70.2	67.1	65.0	52.6	34.0	25.8	24.8
75°	83.6	71.2	60.9	49.5	42.3	39.2	35.1	25.8	14.4	8.3	7.2
77.5°	18.6	17.5	16.5	12.4	11.3	9.3	7.2	5.2	2.1	0.0	0.0
80°	1.0	1.0	1.0	1.0	1.0	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)