

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: P637282

Luminaire Tested: GWS-SA4C-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-740-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

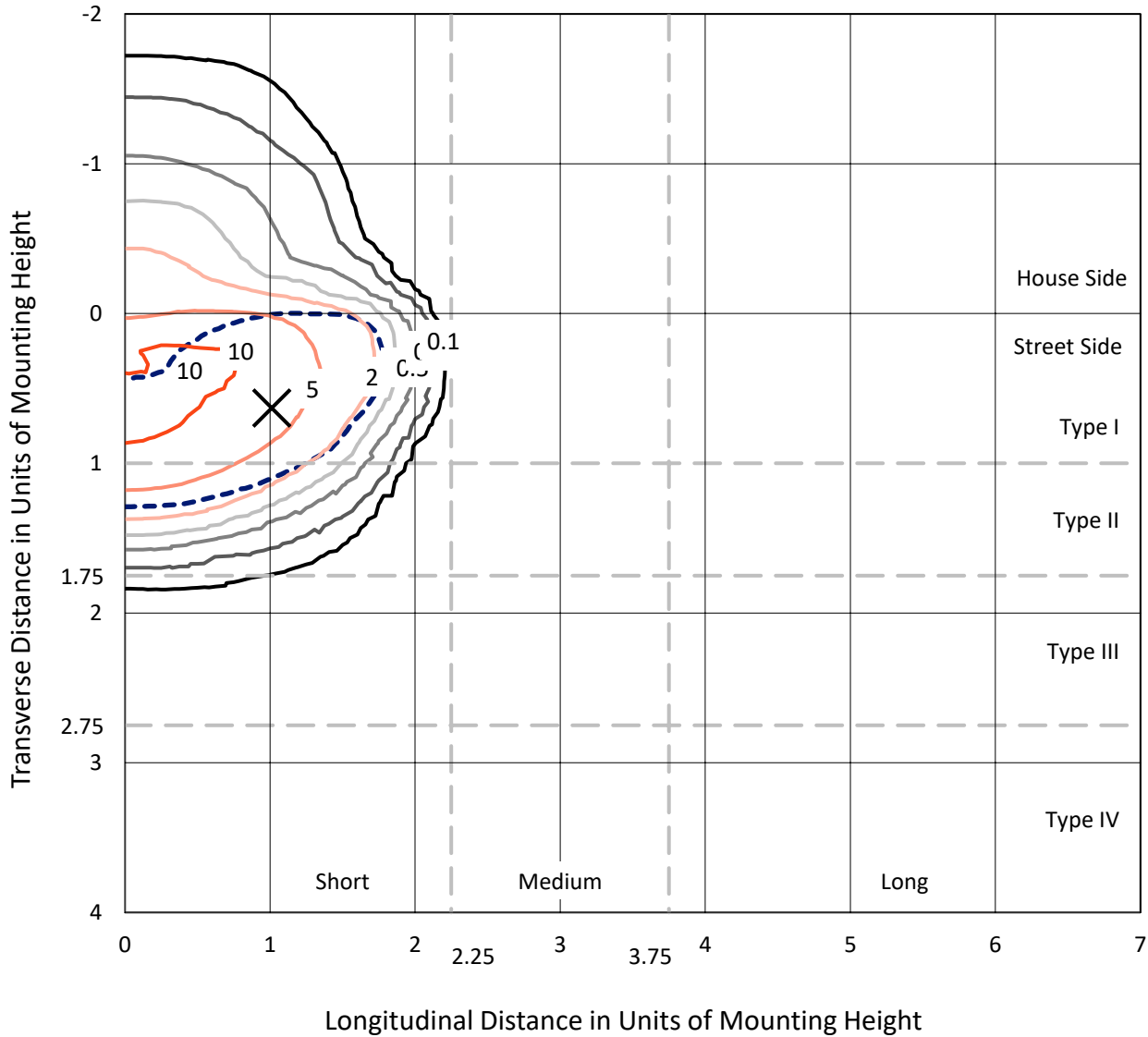
Lumens per Lamp: N/A  
Luminaire Lumens: 13012.5 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

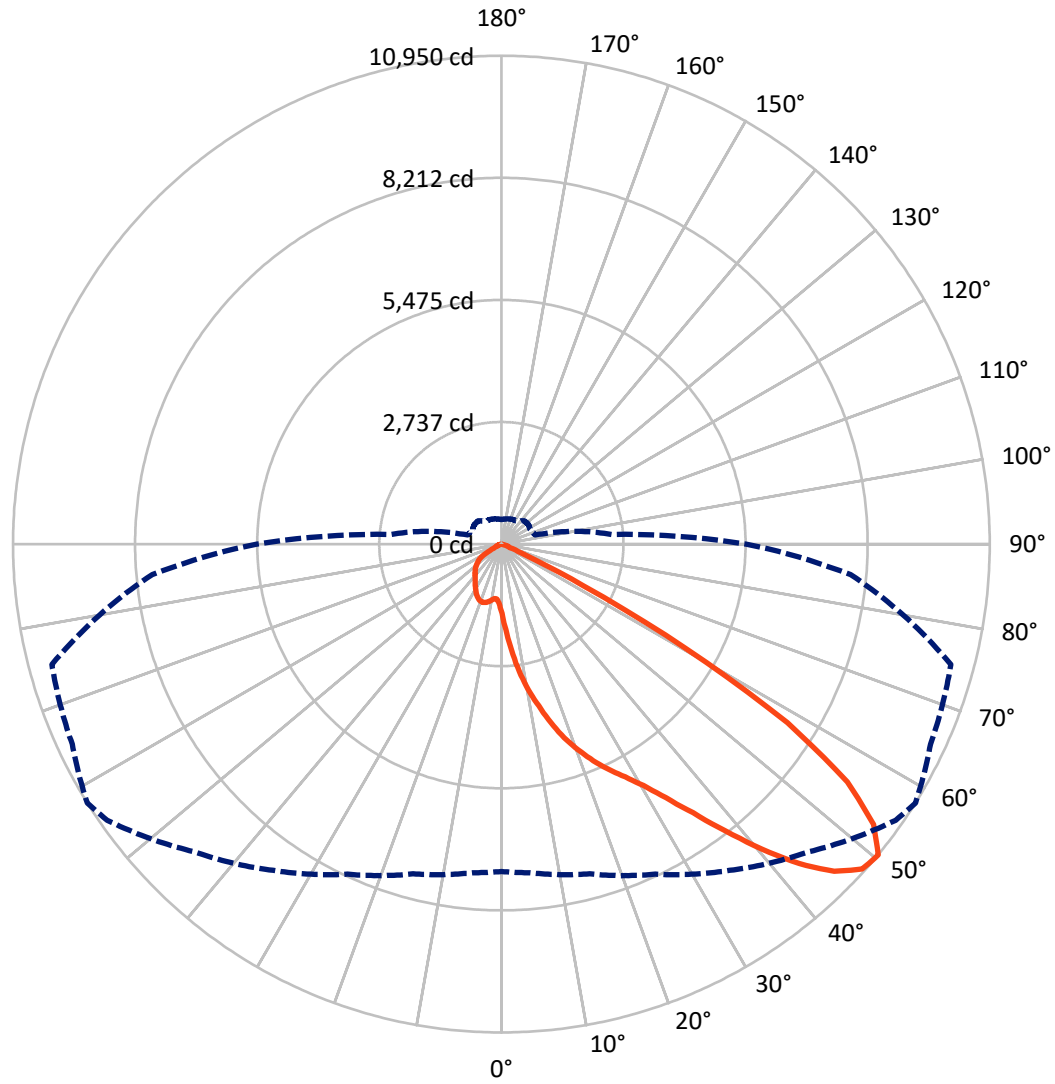
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1822.6	0.0	1822.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	11189.9	0.0	11189.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	13012.5	0.0	13012.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.6	1.5
10°-20°	762.3	5.9
20°-30°	1542.5	11.9
30°-40°	2728.8	21.0
40°-50°	3978.1	30.6
50°-60°	3188.5	24.5
60°-70°	574.4	4.4
70°-80°	45.3	0.3
80°-90°	0.0	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°	13012.5	100.0
0°-180°	13012.5	100.0

**Coefficient of Utilization**



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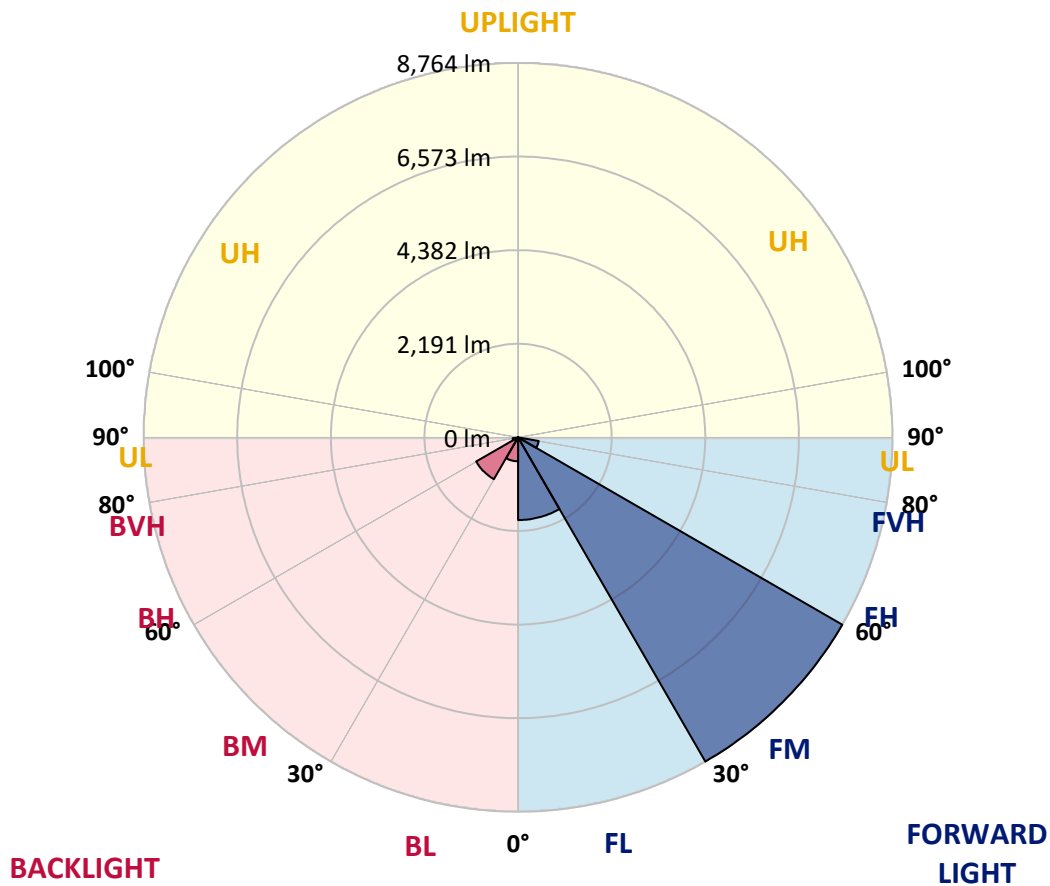
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.2	14.9			
FM (30°-60°)	8763.5	67.3			
FH (60°-80°)	490.2	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	561.1	4.3	B2/1000		
BM (30°-60°)	1131.9	8.7	B2/2500		
BH (60°-80°)	129.5	1.0	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: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3
2.5°	2300.2	2264.0	2243.1	2226.4	2152.7	2035.8	1959.3	1918.9	1852.1	1739.4	1642.0
5°	3001.5	2975.1	2926.4	2893.0	2798.3	2632.7	2461.6	2393.4	2241.7	1987.1	1758.9
7.5°	3466.3	3446.8	3428.7	3384.2	3295.1	3144.8	2955.6	2884.6	2650.8	2289.0	1914.7
10°	3823.9	3808.6	3787.7	3786.3	3716.7	3581.8	3396.7	3322.9	3069.7	2617.4	2098.4
12.5°	4138.4	4125.8	4121.7	4160.6	4116.1	4015.9	3815.5	3723.7	3455.1	2952.8	2301.6
15°	4354.0	4351.3	4369.4	4445.9	4470.9	4425.0	4256.6	4157.8	3848.9	3289.5	2525.6
17.5°	4452.8	4461.2	4496.0	4628.2	4739.5	4778.5	4649.0	4565.6	4239.9	3630.5	2764.9
20°	4621.2	4618.4	4639.3	4764.5	4900.9	5040.1	5001.1	4930.1	4635.1	3990.9	3030.7
22.5°	5095.7	5055.4	5010.8	5030.3	5079.0	5241.8	5314.2	5278.0	5042.8	4361.0	3304.8
25°	5824.9	5783.1	5639.8	5500.7	5408.8	5482.6	5581.4	5599.5	5447.8	4740.9	3591.5
27.5°	6598.6	6561.0	6399.6	6190.8	5927.8	5799.8	5873.6	5909.8	5845.7	5193.1	3896.2
30°	7323.5	7273.4	7096.7	6837.9	6533.2	6337.0	6253.5	6278.5	6316.1	5728.9	4253.9
32.5°	7952.5	7914.9	7703.4	7430.7	7137.1	6932.5	6737.7	6779.5	6871.3	6384.3	4711.7
35°	8485.5	8466.0	8241.9	7970.6	7660.3	7555.9	7388.9	7397.3	7489.1	7176.0	5269.7
37.5°	8948.8	8915.4	8712.3	8460.4	8214.1	8197.4	8151.5	8155.7	8203.0	8098.6	5911.2
40°	9241.0	9210.4	9065.7	8909.9	8734.5	8737.3	8975.3	8993.4	8939.1	9004.5	6588.8
42.5°	9351.0	9328.7	9250.8	9252.2	9234.1	9316.2	9762.9	9796.3	9601.4	9715.5	7167.7
45°	9160.3	9150.6	9156.2	9356.5	9573.6	9826.9	10407.1	10465.6	10190.1	10187.3	7619.9
47.5°	8545.3	8525.8	8688.6	9029.5	9531.9	10024.5	10796.8	10887.2	10601.9	10457.2	7903.8
50°	7340.2	7395.9	7653.3	8165.4	8929.3	9753.1	10792.6	10949.8	10617.2	10433.6	7856.5
52.5°	5317.0	5305.8	5869.4	6573.5	7503.0	8884.8	10219.3	10448.9	10245.7	10201.2	7750.7
55°	2893.0	2994.5	3374.4	4306.7	5467.3	7241.4	8909.9	9410.8	9646.0	10116.3	7941.4
57.5°	1063.1	1107.6	1345.6	2005.2	2894.3	4502.9	6805.9	7561.5	8287.9	9879.7	7909.4
60°	428.6	436.9	531.6	737.5	1216.2	2291.8	4082.7	4753.4	5438.0	7562.9	6069.8
62.5°	311.7	322.8	360.4	431.4	615.0	1001.9	1760.3	2046.9	2237.6	3746.0	2990.4
65°	251.9	260.2	290.8	322.8	406.3	538.5	567.7	546.9	544.1	968.5	686.0
67.5°	208.7	217.1	239.3	261.6	292.2	268.6	194.8	204.6	167.0	165.6	135.0
70°	153.1	162.8	185.1	208.7	175.3	72.4	112.7	167.0	126.6	105.8	103.0
72.5°	115.5	122.5	143.3	136.4	51.5	27.8	75.1	121.1	97.4	77.9	76.5
75°	86.3	90.4	72.4	22.3	5.6	7.0	27.8	50.1	54.3	44.5	44.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.2	5.6	7.0	8.3
80°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3
2.5°	1586.3	1527.9	1444.4	1374.8	1321.9	1270.5	1231.5	1192.5	1191.1	1171.7	1167.5
5°	1653.1	1547.4	1394.3	1284.4	1217.6	1177.2	1149.4	1135.5	1128.5	1121.6	1118.8
7.5°	1749.1	1597.5	1385.9	1269.1	1213.4	1187.0	1167.5	1159.1	1155.0	1149.4	1148.0
10°	1867.4	1669.8	1416.6	1298.3	1249.6	1224.5	1203.7	1191.1	1184.2	1174.4	1171.7
12.5°	2009.3	1758.9	1465.3	1347.0	1295.5	1262.1	1234.3	1216.2	1206.4	1193.9	1191.1
15°	2162.4	1854.9	1519.5	1391.5	1330.3	1287.2	1252.4	1224.5	1206.4	1191.1	1187.0
17.5°	2321.0	1952.3	1568.2	1422.1	1347.0	1295.5	1245.4	1207.8	1185.6	1166.1	1160.5
20°	2499.2	2052.5	1600.2	1427.7	1341.4	1273.2	1214.8	1167.5	1145.2	1118.8	1113.2
22.5°	2685.6	2145.7	1614.2	1415.2	1310.8	1231.5	1168.9	1120.2	1088.2	1060.3	1052.0
25°	2866.5	2229.2	1607.2	1380.4	1264.9	1173.0	1109.0	1058.9	1024.2	996.3	989.4
27.5°	3058.5	2298.8	1582.2	1328.9	1202.3	1109.0	1047.8	1004.7	972.7	942.1	935.1
30°	3274.2	2362.8	1541.8	1266.3	1128.5	1043.6	996.3	967.1	932.3	900.3	890.6
32.5°	3534.4	2419.8	1483.4	1191.1	1063.1	986.6	960.1	937.9	897.5	864.1	857.2
35°	3832.2	2467.2	1409.6	1113.2	999.1	950.4	944.8	915.6	862.7	823.8	815.4
37.5°	4177.3	2513.1	1321.9	1036.7	951.8	933.7	935.1	885.0	821.0	773.7	768.1
40°	4548.9	2559.0	1224.5	969.9	908.7	924.0	911.4	840.5	736.1	690.2	684.6
42.5°	4935.7	2609.1	1125.7	907.3	872.5	886.4	868.3	751.4	676.3	652.6	649.8
45°	5285.0	2668.9	1018.6	844.6	836.3	832.1	801.5	680.5	648.4	631.7	630.4
47.5°	5536.8	2659.2	904.5	784.8	797.3	783.4	690.2	647.1	620.6	598.4	592.8
50°	5490.9	2489.4	786.2	718.0	747.2	734.7	620.6	608.1	584.4	560.8	552.4
52.5°	5374.0	2258.4	683.2	647.1	693.0	663.8	573.3	560.8	539.9	509.3	499.6
55°	5436.6	2041.4	602.5	590.0	637.3	549.6	520.4	500.9	478.7	445.3	441.1
57.5°	5234.9	1665.6	484.2	492.6	563.6	468.9	456.4	425.8	388.2	366.0	363.2
60°	3623.5	894.7	303.3	313.1	407.7	393.8	409.1	381.3	335.4	314.5	310.3
62.5°	1664.3	359.0	165.6	158.6	214.3	267.2	350.7	347.9	290.8	257.4	254.6
65°	403.5	164.2	118.3	111.3	121.1	160.0	228.2	274.1	235.2	196.2	192.0
67.5°	130.8	133.6	108.5	101.6	107.1	119.7	136.4	151.7	150.3	137.8	135.0
70°	104.4	121.1	100.2	91.8	91.8	96.0	91.8	73.8	64.0	69.6	72.4
72.5°	77.9	91.8	79.3	71.0	68.2	66.8	57.1	41.7	29.2	26.4	25.0
75°	45.9	51.5	48.7	41.7	39.0	34.8	27.8	18.1	9.7	7.0	4.2
77.5°	8.3	9.7	11.1	8.3	7.0	5.6	4.2	1.4	0.0	0.0	0.0
80°	0.0	1.4	1.4	1.4	0.0	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)