

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: P639258

Luminaire Tested: GWS-SA5B-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639258  
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-SA5B-740-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

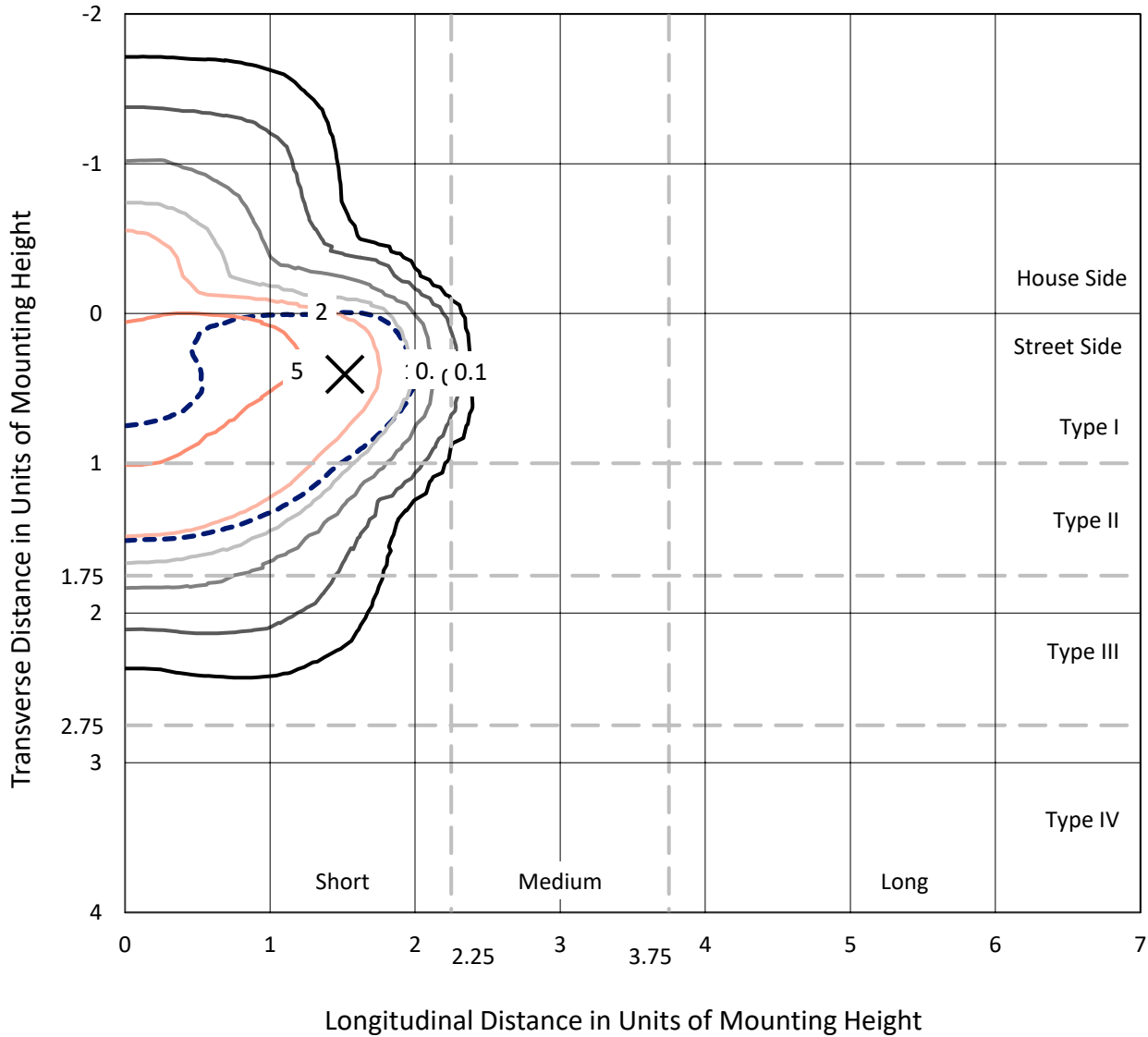
Lumens per Lamp: N/A  
Luminaire Lumens: 10546.9 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

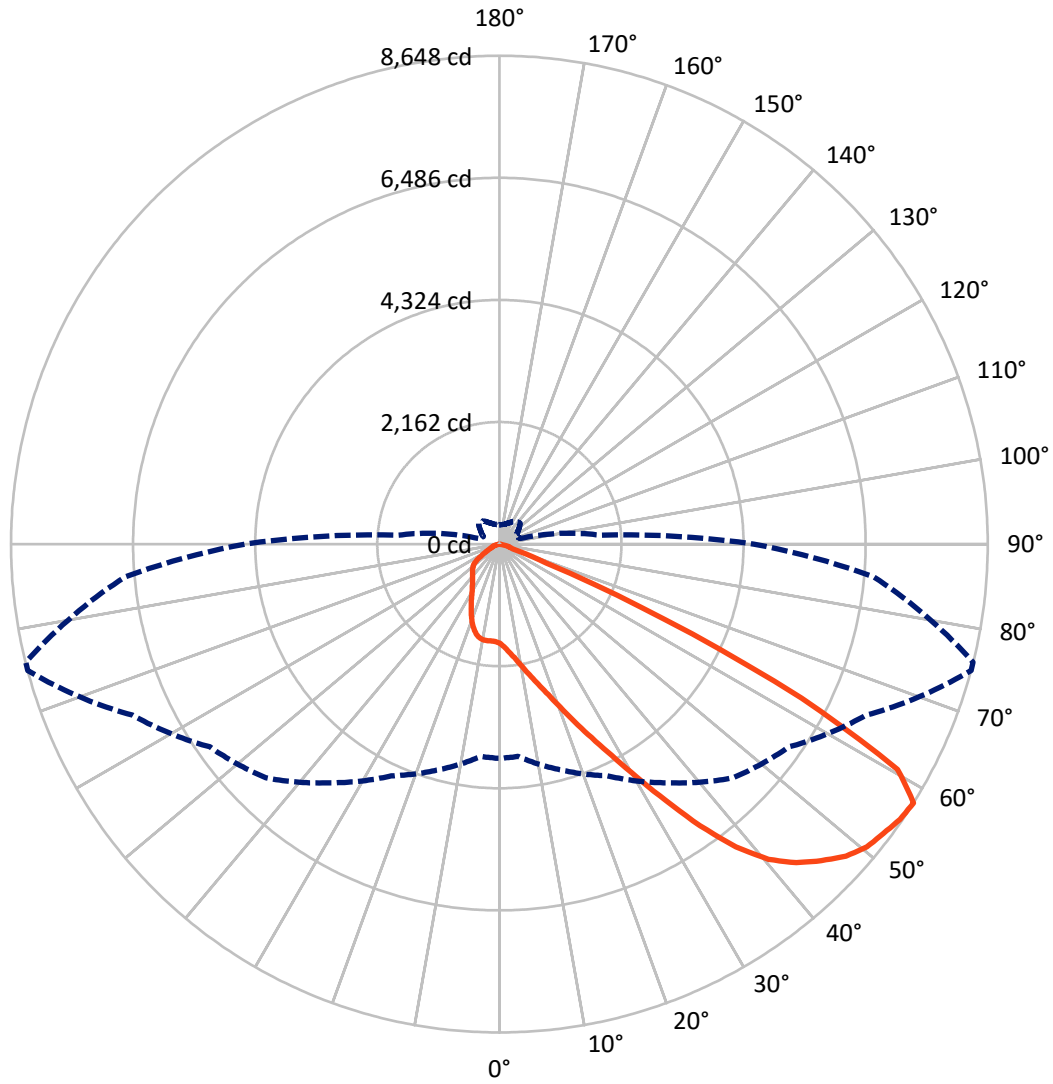
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 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	1722.8	0.0	1722.8
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	8824.1	0.0	8824.1
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	10546.9	0.0	10546.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.0	1.7
10°-20°	581.5	5.5
20°-30°	1064.8	10.1
30°-40°	1766.6	16.8
40°-50°	2698.1	25.6
50°-60°	3031.7	28.7
60°-70°	1118.2	10.6
70°-80°	106.9	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°	10546.9	100.0
0°-180°	10546.9	100.0

**Coefficient of Utilization**



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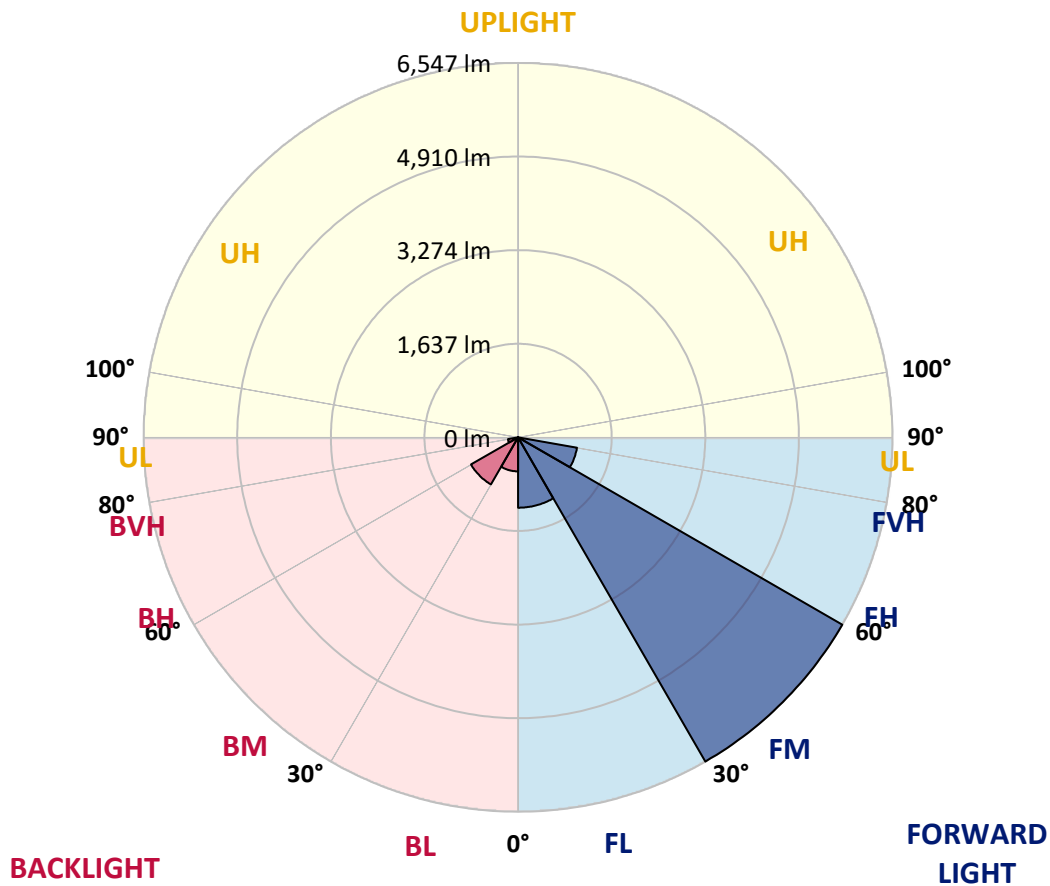
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.8	11.7			
FM (30°-60°)	6547.0	62.1			
FH (60°-80°)	1046.2	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	594.5	5.6	B2/1000		
BM (30°-60°)	949.4	9.0	B1/1000		
BH (60°-80°)	178.9	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: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1
2.5°	1965.3	1985.6	1979.3	1966.6	1958.9	1932.2	1915.6	1867.3	1832.9	1829.1	1797.3
5°	2213.5	2209.7	2204.6	2189.3	2176.6	2134.6	2084.9	2003.5	1930.9	1922.0	1854.5
7.5°	2349.7	2352.2	2354.8	2352.2	2343.3	2311.5	2256.8	2161.3	2050.6	2042.9	1936.0
10°	2405.7	2410.8	2423.5	2447.7	2469.3	2466.8	2435.0	2336.9	2200.8	2188.0	2044.2
12.5°	2432.4	2438.8	2459.1	2505.0	2563.5	2609.3	2614.4	2526.6	2376.4	2356.0	2172.8
15°	2469.3	2475.7	2501.1	2561.0	2646.3	2736.6	2795.2	2739.2	2571.2	2549.5	2314.0
17.5°	2485.9	2494.8	2531.7	2610.6	2721.3	2860.1	2992.5	2987.4	2801.5	2785.0	2478.2
20°	2517.7	2524.1	2557.2	2642.4	2776.1	2975.9	3198.7	3278.9	3082.8	3058.7	2676.8
22.5°	2618.2	2620.8	2636.1	2689.5	2814.3	3059.9	3408.7	3618.7	3415.1	3383.2	2899.5
25°	2782.4	2781.2	2787.5	2796.4	2888.1	3145.2	3611.1	4001.8	3795.6	3761.3	3151.6
27.5°	2991.2	2991.2	3006.5	2981.0	3017.9	3250.9	3810.9	4442.2	4238.6	4190.2	3427.8
30°	3236.9	3235.6	3271.2	3230.5	3241.9	3417.6	4026.0	4922.1	4773.2	4713.4	3746.0
32.5°	3570.3	3562.7	3603.4	3547.4	3509.2	3669.6	4288.2	5423.6	5413.4	5321.8	4145.7
35°	3991.7	3978.9	3991.7	3936.9	3868.2	4022.2	4631.9	5923.8	6123.7	6026.9	4621.7
37.5°	4410.4	4451.1	4465.2	4371.0	4315.0	4469.0	5045.6	6371.9	6802.1	6701.5	5116.8
40°	4904.3	4891.6	4939.9	4834.3	4798.6	4969.2	5450.3	6705.4	7339.2	7243.8	5557.3
42.5°	5268.3	5291.2	5351.1	5292.5	5264.5	5424.9	5790.2	6900.1	7712.2	7618.0	5871.6
45°	5704.9	5721.5	5744.4	5696.0	5666.7	5824.6	6035.8	6985.4	7996.0	7894.2	6082.9
47.5°	6177.1	6189.9	6189.9	6090.6	5996.4	6061.3	6200.0	7033.8	8257.0	8159.0	6239.5
50°	6515.7	6522.1	6578.1	6508.1	6303.1	6202.6	6275.1	7080.9	8430.1	8338.4	6290.4
52.5°	6215.3	6207.7	6392.2	6537.3	6592.1	6392.2	6405.0	7149.6	8514.1	8435.2	6331.1
55°	5234.0	5221.2	5480.9	5833.5	6315.9	6571.7	6561.5	7190.3	8607.0	8558.6	6478.8
57.5°	3794.4	3772.7	4134.2	4526.2	5158.9	5852.6	6259.9	7167.4	8647.7	8643.9	6650.6
60°	2280.9	2263.1	2604.2	3016.7	3505.4	4202.9	4878.8	6420.2	8103.0	8110.6	6203.9
62.5°	1404.0	1420.5	1728.5	1938.5	2120.6	2330.6	2721.3	4318.8	6002.8	6052.4	4359.5
65°	944.5	957.2	1242.3	1507.1	1507.1	1232.1	1057.7	2064.6	3202.5	3118.5	2062.0
67.5°	633.9	647.9	873.2	1182.5	1227.0	859.2	428.9	616.1	892.3	865.5	510.4
70°	372.9	388.2	581.7	810.8	893.5	598.2	286.4	260.9	253.3	245.7	198.6
72.5°	166.7	173.1	296.6	412.4	376.8	252.0	202.4	208.7	197.3	193.5	161.7
75°	50.9	53.5	76.4	89.1	90.4	90.4	122.2	164.2	155.3	156.6	124.7
77.5°	12.7	12.7	20.4	19.1	10.2	8.9	22.9	36.9	38.2	34.4	25.5
80°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
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°	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1	1759.1
2.5°	1783.3	1750.2	1728.5	1698.0	1676.3	1653.4	1633.1	1616.5	1607.6	1605.1	1606.3
5°	1824.0	1771.8	1720.9	1662.3	1621.6	1583.4	1552.9	1528.7	1517.2	1513.4	1513.4
7.5°	1886.4	1813.8	1723.4	1631.8	1563.1	1503.2	1467.6	1440.9	1430.7	1428.1	1420.5
10°	1967.8	1868.5	1719.6	1577.1	1480.3	1418.0	1392.5	1384.9	1388.7	1390.0	1388.7
12.5°	2065.8	1925.8	1695.4	1496.9	1392.5	1354.3	1356.9	1377.2	1400.1	1411.6	1414.1
15°	2170.2	1978.0	1640.7	1401.4	1317.4	1316.1	1353.0	1400.1	1444.7	1463.8	1468.9
17.5°	2287.3	2020.0	1556.7	1299.6	1252.5	1289.4	1355.6	1428.1	1488.0	1519.8	1526.1
20°	2415.9	2054.4	1449.8	1204.1	1195.2	1261.4	1353.0	1442.1	1516.0	1551.6	1558.0
22.5°	2549.5	2078.6	1326.3	1116.3	1143.0	1229.6	1328.9	1415.4	1485.4	1526.1	1531.2
25°	2702.3	2081.1	1200.3	1042.5	1094.6	1186.3	1270.3	1341.6	1400.1	1435.8	1439.6
27.5°	2835.9	2050.6	1088.3	982.6	1050.1	1132.8	1188.8	1228.3	1269.0	1289.4	1290.7
30°	2989.9	1997.1	982.6	934.3	1004.3	1066.6	1094.6	1103.6	1107.4	1111.2	1106.1
32.5°	3173.2	1932.2	903.7	887.2	952.1	994.1	1001.7	983.9	962.3	931.7	924.1
35°	3398.5	1873.6	838.8	841.4	894.8	920.3	913.9	875.7	833.7	796.8	790.4
37.5°	3642.9	1824.0	789.2	796.8	832.4	850.3	831.2	789.2	770.1	738.3	739.5
40°	3859.3	1783.3	744.6	752.3	768.8	785.3	754.8	726.8	762.4	759.9	762.4
42.5°	4013.3	1748.9	706.4	702.6	714.1	725.5	702.6	688.6	748.4	731.9	740.8
45°	4103.7	1717.1	674.6	651.7	669.5	689.9	674.6	656.8	677.2	600.8	594.4
47.5°	4164.8	1699.3	646.6	602.1	633.9	669.5	637.7	594.4	565.1	499.0	493.9
50°	4171.1	1690.3	613.5	551.1	591.9	630.1	593.1	533.3	491.3	462.0	458.2
52.5°	4204.2	1708.2	567.7	486.2	530.8	591.9	566.4	506.6	449.3	423.9	418.8
55°	4351.9	1783.3	491.3	397.1	462.0	562.6	544.8	451.9	397.1	381.9	378.0
57.5°	4504.6	1798.5	386.9	314.4	402.2	520.6	497.7	416.2	362.8	344.9	341.1
60°	4118.9	1481.6	290.2	259.7	355.1	481.1	460.8	394.6	332.2	310.6	306.8
62.5°	2706.1	800.6	230.4	220.2	299.1	407.3	420.0	356.4	296.6	273.7	272.4
65°	1247.4	371.7	176.9	174.4	234.2	324.6	361.5	311.8	250.8	230.4	230.4
67.5°	339.9	184.6	138.7	128.6	159.1	217.7	263.5	232.9	178.2	154.0	152.7
70°	169.3	148.9	124.7	110.7	114.6	134.9	155.3	129.8	90.4	73.8	72.6
72.5°	138.7	122.2	105.6	94.2	86.6	82.7	80.2	64.9	42.0	31.8	30.5
75°	103.1	87.8	75.1	61.1	52.2	48.4	43.3	31.8	17.8	10.2	8.9
77.5°	22.9	21.6	20.4	15.3	14.0	11.5	8.9	6.4	2.5	0.0	0.0
80°	1.3	1.3	1.3	1.3	1.3	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)