

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: P636893

Luminaire Tested: GWS-SA4B-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636893  
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-SA4B-760-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

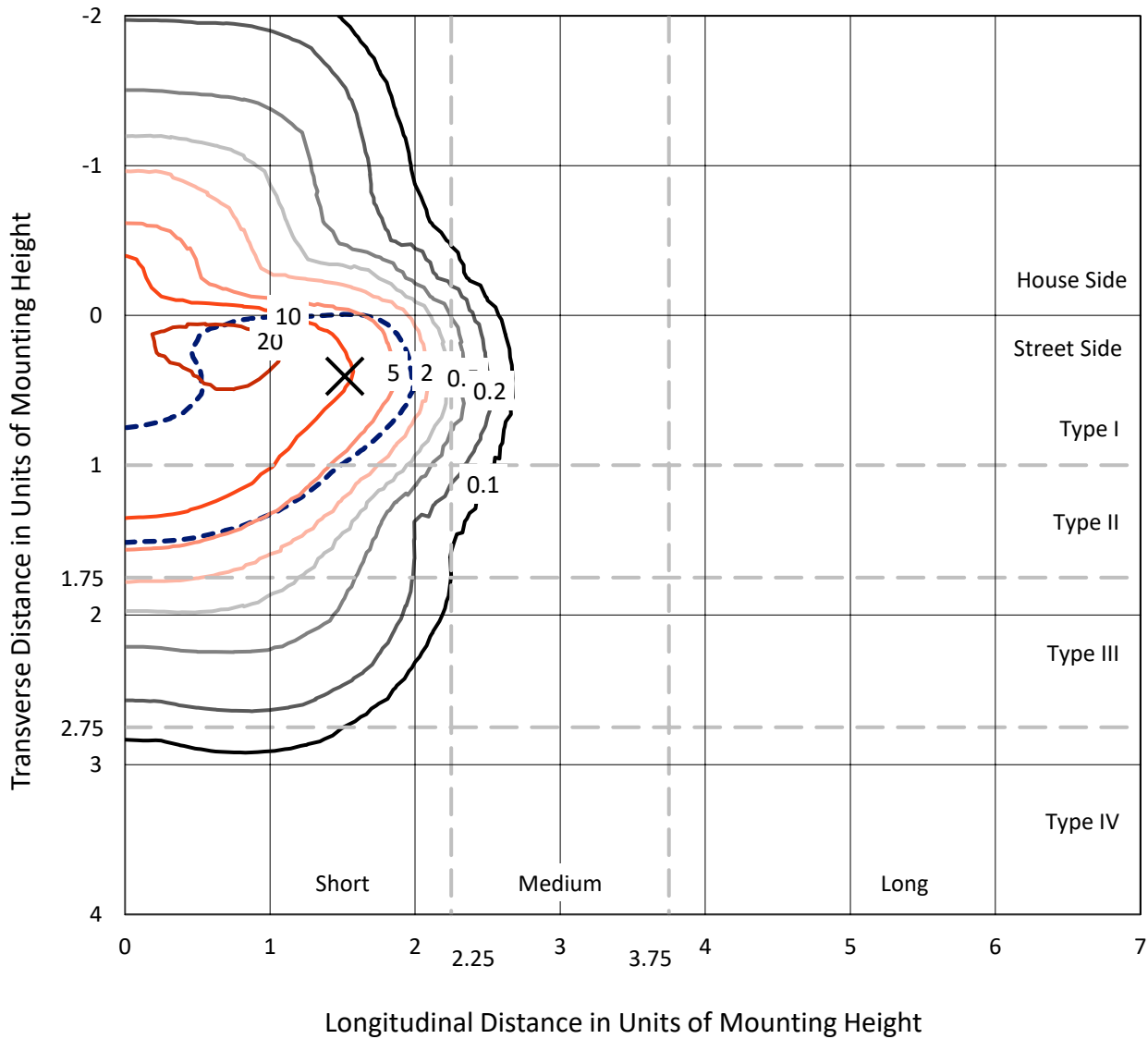
Lumens per Lamp: N/A  
Luminaire Lumens: 8674.2 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

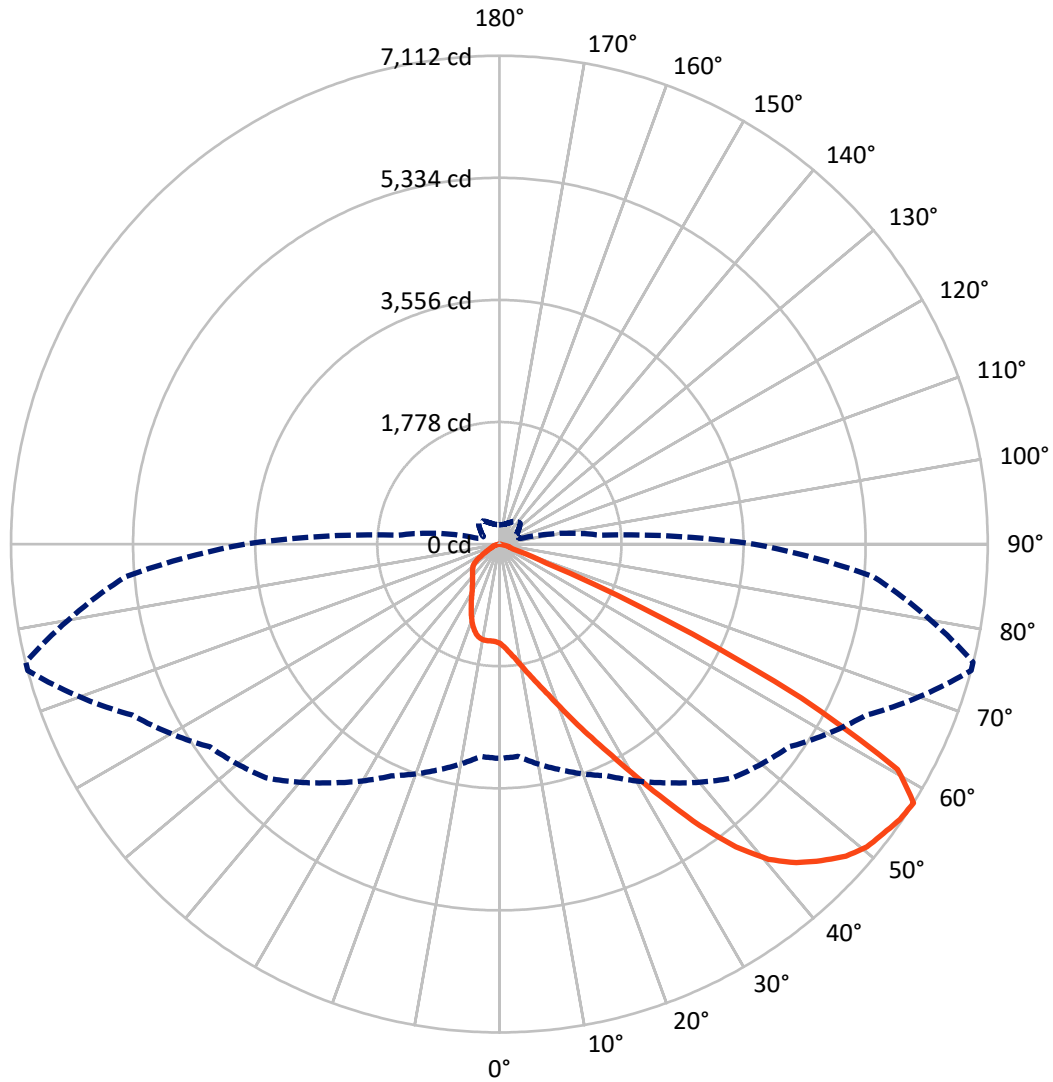
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27 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	1416.9	0.0	1416.9
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	7257.3	0.0	7257.3
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	8674.2	0.0	8674.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.2	1.7
10°-20°	478.2	5.5
20°-30°	875.7	10.1
30°-40°	1452.9	16.8
40°-50°	2219.0	25.6
50°-60°	2493.4	28.7
60°-70°	919.7	10.6
70°-80°	87.9	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°	8674.2	100.0
0°-180°	8674.2	100.0

**Coefficient of Utilization**



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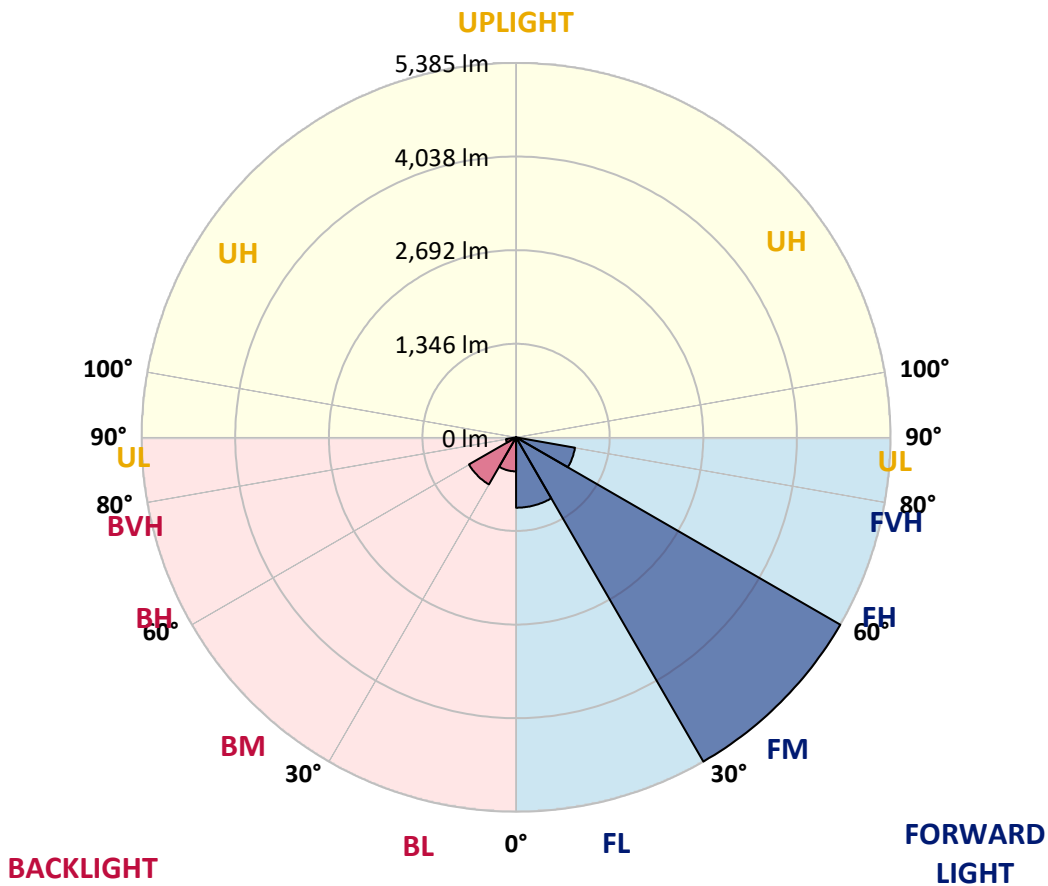
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.3	11.7			
FM (30°-60°)	5384.5	62.1			
FH (60°-80°)	860.4	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	488.9	5.6	B1/500		
BM (30°-60°)	780.8	9.0	B1/1000		
BH (60°-80°)	147.1	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°	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7
2.5°	1616.3	1633.1	1627.8	1617.4	1611.1	1589.1	1575.5	1535.7	1507.5	1504.3	1478.1
5°	1820.5	1817.3	1813.1	1800.6	1790.1	1755.6	1714.7	1647.7	1588.1	1580.7	1525.2
7.5°	1932.5	1934.6	1936.7	1934.6	1927.2	1901.1	1856.1	1777.5	1686.5	1680.2	1592.2
10°	1978.5	1982.7	1993.2	2013.1	2030.9	2028.8	2002.6	1922.0	1810.0	1799.5	1681.2
12.5°	2000.5	2005.7	2022.5	2060.2	2108.3	2146.0	2150.2	2078.0	1954.5	1937.7	1787.0
15°	2030.9	2036.1	2057.0	2106.2	2176.4	2250.7	2298.9	2252.8	2114.6	2096.8	1903.2
17.5°	2044.5	2051.8	2082.2	2147.1	2238.1	2352.3	2461.1	2456.9	2304.1	2290.5	2038.2
20°	2070.7	2075.9	2103.1	2173.2	2283.2	2447.5	2630.7	2696.7	2535.5	2515.6	2201.5
22.5°	2153.4	2155.4	2168.0	2212.0	2314.6	2516.6	2803.4	2976.2	2808.7	2782.5	2384.7
25°	2288.4	2287.4	2292.6	2299.9	2375.3	2586.7	2969.9	3291.3	3121.7	3093.4	2592.0
27.5°	2460.1	2460.1	2472.6	2451.7	2482.1	2673.6	3134.2	3653.5	3486.0	3446.2	2819.1
30°	2662.1	2661.1	2690.4	2656.9	2666.3	2810.8	3311.2	4048.1	3925.7	3876.5	3080.9
32.5°	2936.4	2930.1	2963.6	2917.5	2886.1	3018.0	3526.8	4460.6	4452.2	4376.8	3409.6
35°	3282.9	3272.4	3282.9	3237.9	3181.4	3308.0	3809.5	4872.0	5036.4	4956.8	3801.1
37.5°	3627.3	3660.8	3672.3	3594.9	3548.8	3675.5	4149.7	5240.5	5594.3	5511.6	4208.3
40°	4033.5	4023.0	4062.8	3975.9	3946.6	4086.9	4482.6	5514.8	6036.1	5957.6	4570.5
42.5°	4332.9	4351.7	4400.9	4352.8	4329.7	4461.6	4762.1	5674.9	6342.8	6265.4	4829.1
45°	4691.9	4705.6	4724.4	4684.6	4660.5	4790.3	4964.1	5745.1	6576.3	6492.5	5002.9
47.5°	5080.3	5090.8	5090.8	5009.1	4931.7	4985.1	5099.2	5784.8	6790.9	6710.3	5131.6
50°	5358.8	5364.0	5410.1	5352.5	5184.0	5101.3	5160.9	5823.6	6933.2	6857.9	5173.5
52.5°	5111.7	5105.4	5257.2	5376.6	5421.6	5257.2	5267.7	5880.1	7002.3	6937.4	5207.0
55°	4304.6	4294.1	4507.7	4797.7	5194.4	5404.8	5396.5	5913.6	7078.7	7039.0	5328.4
57.5°	3120.6	3102.8	3400.1	3722.6	4242.9	4813.4	5148.4	5894.8	7112.2	7109.1	5469.8
60°	1875.9	1861.3	2141.8	2481.0	2883.0	3456.7	4012.5	5280.3	6664.2	6670.5	5102.3
62.5°	1154.7	1168.3	1421.6	1594.3	1744.0	1916.8	2238.1	3551.9	4936.9	4977.7	3585.4
65°	776.8	787.2	1021.7	1239.5	1239.5	1013.3	869.9	1698.0	2633.9	2564.8	1695.9
67.5°	521.3	532.8	718.1	972.5	1009.2	706.6	352.8	506.7	733.8	711.9	419.8
70°	306.7	319.3	478.4	666.8	734.9	492.0	235.5	214.6	208.3	202.0	163.3
72.5°	137.1	142.4	243.9	339.2	309.9	207.3	166.4	171.7	162.3	159.1	132.9
75°	41.9	44.0	62.8	73.3	74.3	74.3	100.5	135.0	127.7	128.8	102.6
77.5°	10.5	10.5	16.7	15.7	8.4	7.3	18.8	30.4	31.4	28.3	20.9
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°	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7
2.5°	1466.6	1439.4	1421.6	1396.5	1378.7	1359.8	1343.1	1329.5	1322.2	1320.1	1321.1
5°	1500.1	1457.2	1415.3	1367.2	1333.7	1302.3	1277.1	1257.3	1247.8	1244.7	1244.7
7.5°	1551.4	1491.8	1417.4	1342.1	1285.5	1236.3	1207.0	1185.0	1176.7	1174.6	1168.3
10°	1618.4	1536.8	1414.3	1297.0	1217.5	1166.2	1145.2	1139.0	1142.1	1143.2	1142.1
12.5°	1699.0	1583.9	1394.4	1231.1	1145.2	1113.8	1115.9	1132.7	1151.5	1160.9	1163.0
15°	1784.9	1626.8	1349.4	1152.6	1083.5	1082.4	1112.8	1151.5	1188.2	1203.9	1208.1
17.5°	1881.2	1661.3	1280.3	1068.8	1030.1	1060.5	1114.9	1174.6	1223.8	1249.9	1255.2
20°	1986.9	1689.6	1192.4	990.3	983.0	1037.4	1112.8	1186.1	1246.8	1276.1	1281.3
22.5°	2096.8	1709.5	1090.8	918.1	940.1	1011.2	1092.9	1164.1	1221.7	1255.2	1259.4
25°	2222.4	1711.6	987.2	857.4	900.3	975.7	1044.7	1103.4	1151.5	1180.8	1184.0
27.5°	2332.4	1686.5	895.1	808.2	863.6	931.7	977.8	1010.2	1043.7	1060.5	1061.5
30°	2459.0	1642.5	808.2	768.4	826.0	877.3	900.3	907.6	910.8	913.9	909.7
32.5°	2609.8	1589.1	743.3	729.6	783.0	817.6	823.9	809.2	791.4	766.3	760.0
35°	2795.1	1541.0	689.9	692.0	735.9	756.9	751.6	720.2	685.7	655.3	650.1
37.5°	2996.1	1500.1	649.0	655.3	684.6	699.3	683.6	649.0	633.3	607.2	608.2
40°	3174.0	1466.6	612.4	618.7	632.3	645.9	620.8	597.7	627.1	625.0	627.1
42.5°	3300.7	1438.4	581.0	577.9	587.3	596.7	577.9	566.3	615.5	601.9	609.3
45°	3375.0	1412.2	554.8	536.0	550.6	567.4	554.8	540.2	556.9	494.1	488.9
47.5°	3425.3	1397.5	531.8	495.2	521.3	550.6	524.5	488.9	464.8	410.4	406.2
50°	3430.5	1390.2	504.6	453.3	486.8	518.2	487.8	438.6	404.1	380.0	376.9
52.5°	3457.7	1404.9	466.9	399.9	436.5	486.8	465.8	416.6	369.5	348.6	344.4
55°	3579.2	1466.6	404.1	326.6	380.0	462.7	448.0	371.6	326.6	314.1	310.9
57.5°	3704.8	1479.2	318.2	258.6	330.8	428.2	409.3	342.3	298.4	283.7	280.6
60°	3387.6	1218.5	238.7	213.6	292.1	395.7	379.0	324.5	273.2	255.4	252.3
62.5°	2225.6	658.5	189.5	181.1	246.0	335.0	345.5	293.1	243.9	225.1	224.0
65°	1025.9	305.7	145.5	143.4	192.6	266.9	297.3	256.5	206.2	189.5	189.5
67.5°	279.5	151.8	114.1	105.7	130.9	179.0	216.7	191.6	146.6	126.7	125.6
70°	139.2	122.5	102.6	91.1	94.2	111.0	127.7	106.8	74.3	60.7	59.7
72.5°	114.1	100.5	86.9	77.5	71.2	68.0	66.0	53.4	34.5	26.2	25.1
75°	84.8	72.2	61.8	50.2	42.9	39.8	35.6	26.2	14.7	8.4	7.3
77.5°	18.8	17.8	16.7	12.6	11.5	9.4	7.3	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)