

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: P639203

Luminaire Tested: GWS-SA5B-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639203  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

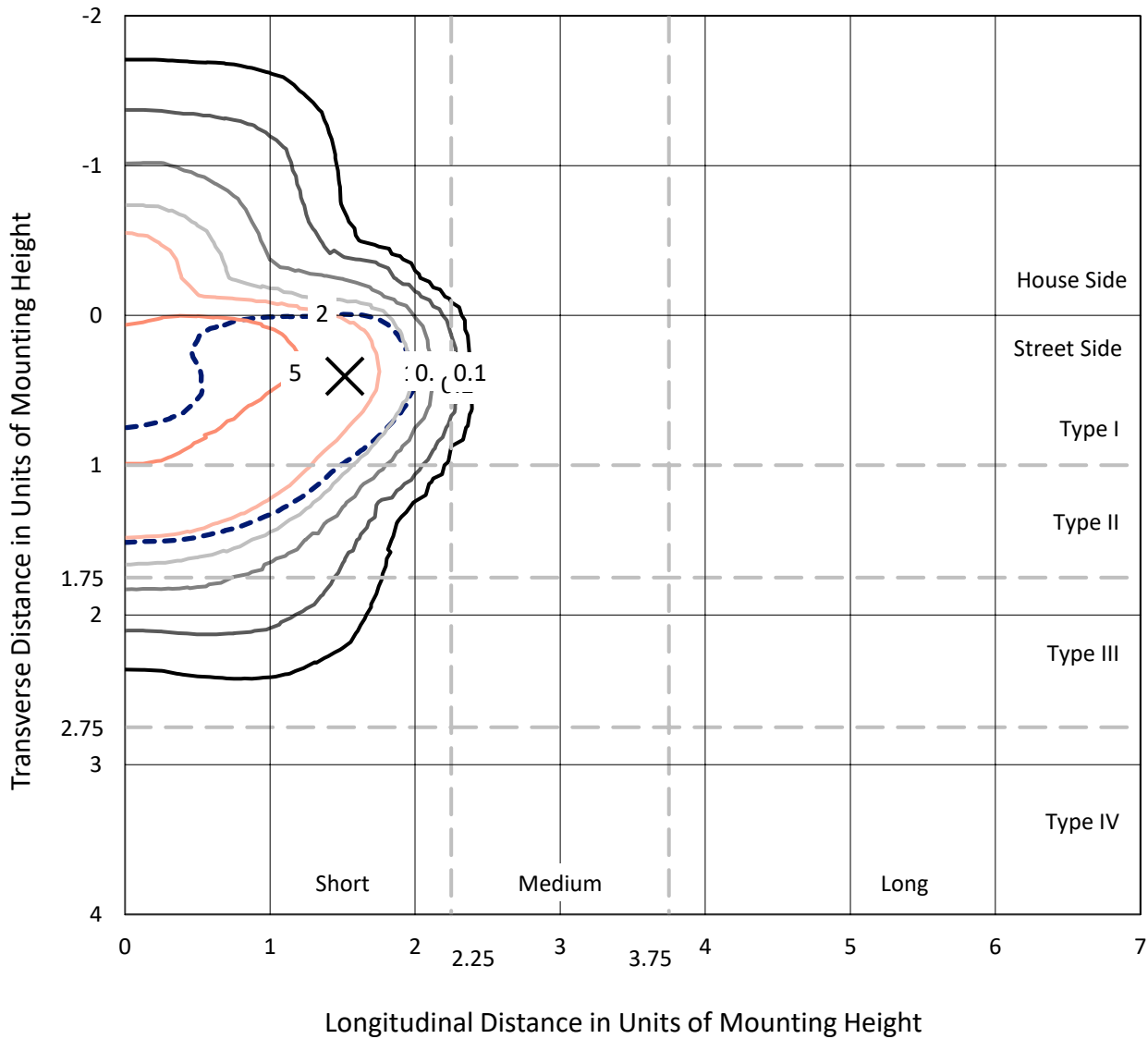
Lumens per Lamp: N/A  
Luminaire Lumens: 10402.4 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

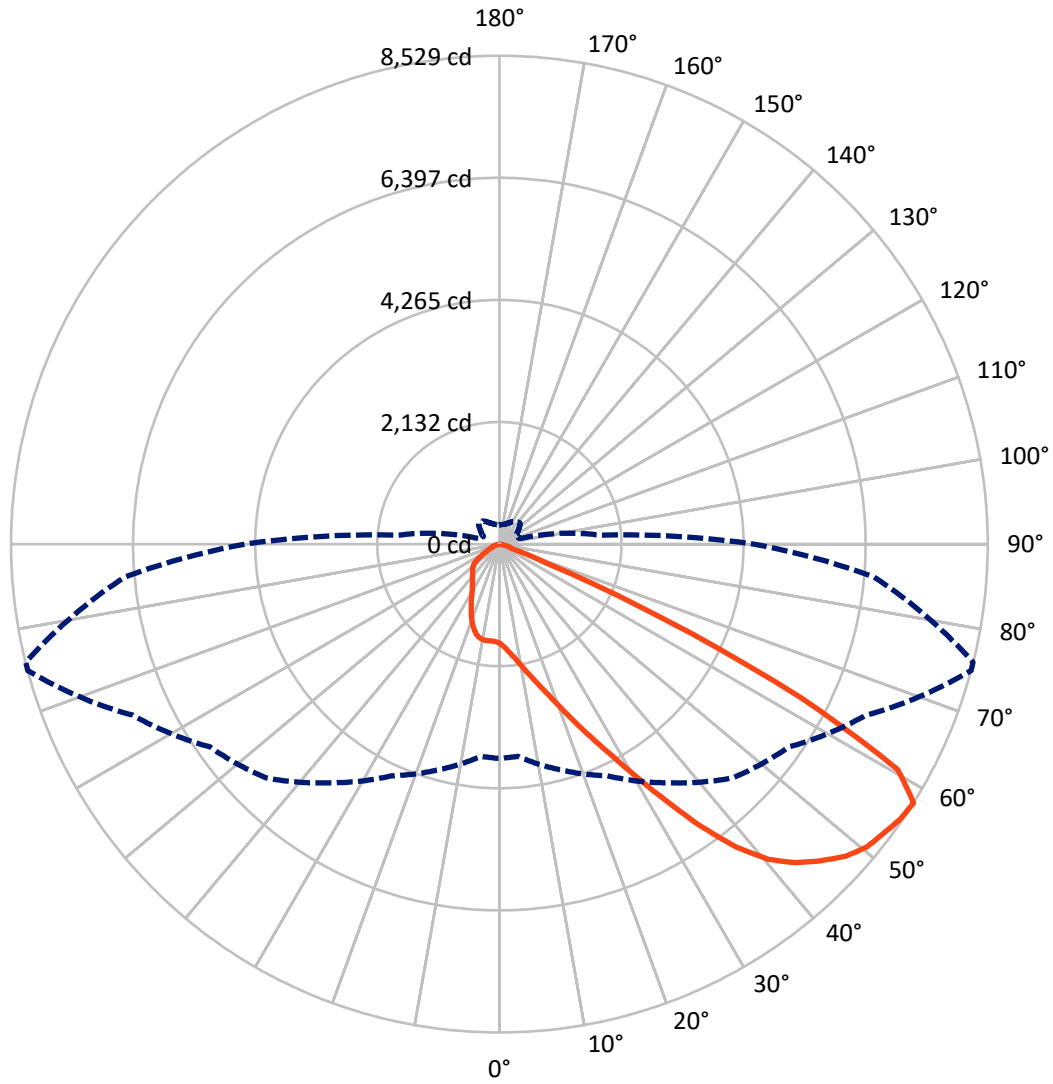
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	1699.2	0.0	1699.2
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	8703.2	0.0	8703.2
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	10402.4	0.0	10402.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.5	1.7
10°-20°	573.5	5.5
20°-30°	1050.2	10.1
30°-40°	1742.4	16.8
40°-50°	2661.1	25.6
50°-60°	2990.2	28.7
60°-70°	1102.9	10.6
70°-80°	105.4	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°	10402.4	100.0
0°-180°	10402.4	100.0

**Coefficient of Utilization**



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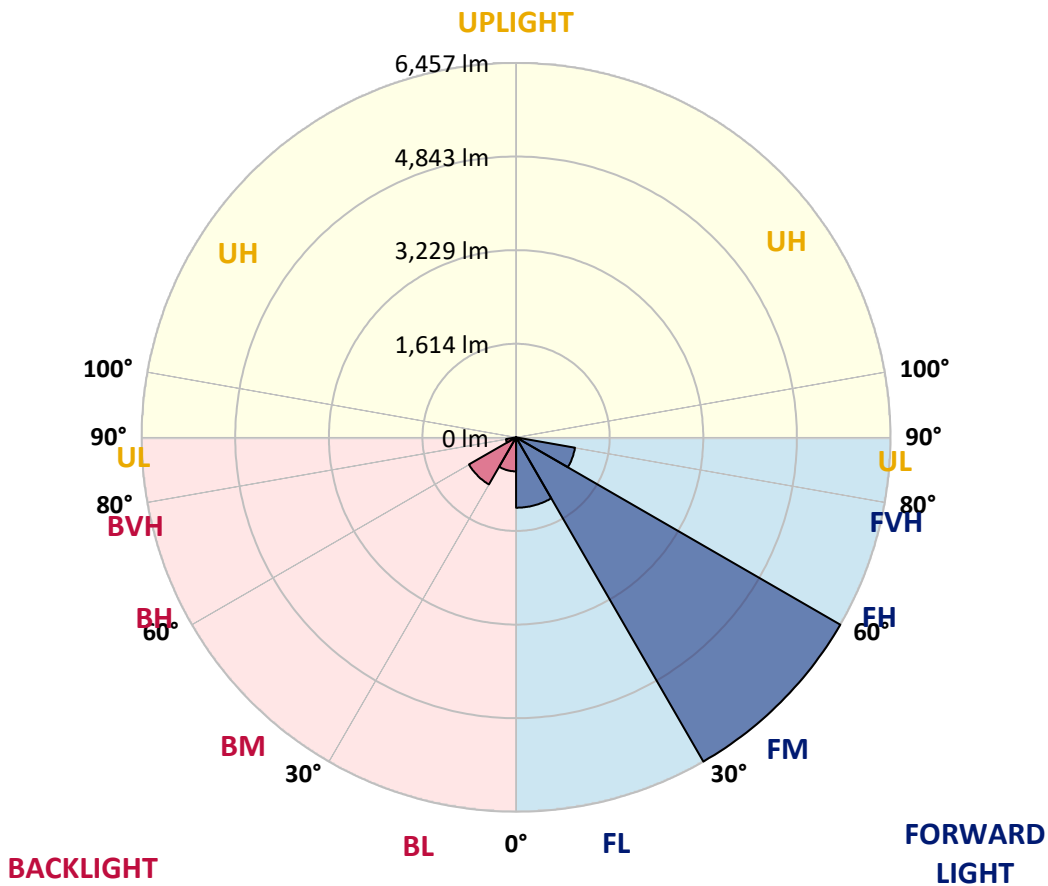
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1213.9	11.7			
FM (30°-60°)	6457.3	62.1			
FH (60°-80°)	1031.9	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	586.3	5.6	B2/1000		
BM (30°-60°)	936.4	9.0	B1/1000		
BH (60°-80°)	176.5	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°	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0
2.5°	1938.4	1958.4	1952.2	1939.6	1932.1	1905.7	1889.4	1841.7	1807.8	1804.0	1772.6
5°	2183.2	2179.4	2174.4	2159.3	2146.7	2105.3	2056.4	1976.0	1904.5	1895.7	1829.1
7.5°	2317.5	2320.0	2322.5	2320.0	2311.2	2279.8	2225.8	2131.7	2022.5	2014.9	1909.5
10°	2372.7	2377.7	2390.3	2414.2	2435.5	2433.0	2401.6	2304.9	2170.6	2158.0	2016.2
12.5°	2399.1	2405.4	2425.5	2470.6	2528.4	2573.6	2578.6	2492.0	2343.8	2323.8	2143.0
15°	2435.5	2441.8	2466.9	2525.9	2610.0	2699.1	2756.9	2701.6	2535.9	2514.6	2282.3
17.5°	2451.8	2460.6	2497.0	2574.8	2684.1	2820.9	2951.5	2946.4	2763.2	2746.8	2444.3
20°	2483.2	2489.5	2522.1	2606.2	2738.0	2935.1	3154.8	3233.9	3040.6	3016.7	2640.1
22.5°	2582.4	2584.9	2600.0	2652.7	2775.7	3018.0	3362.0	3569.1	3368.3	3336.9	2859.8
25°	2744.3	2743.1	2749.3	2758.1	2848.5	3102.1	3561.6	3947.0	3743.6	3709.7	3108.4
27.5°	2950.2	2950.2	2965.3	2940.2	2976.6	3206.3	3758.7	4381.4	4180.5	4132.8	3380.8
30°	3192.5	3191.3	3226.4	3186.2	3197.5	3370.8	3970.9	4854.7	4707.8	4648.8	3694.7
32.5°	3521.4	3513.9	3554.1	3498.8	3461.2	3619.3	4229.5	5349.3	5339.3	5248.9	4088.9
35°	3937.0	3924.4	3937.0	3883.0	3815.2	3967.1	4568.4	5842.7	6039.8	5944.4	4558.4
37.5°	4350.0	4390.2	4404.0	4311.1	4255.8	4407.7	4976.4	6284.6	6708.9	6609.7	5046.7
40°	4837.1	4824.5	4872.2	4768.0	4732.9	4901.1	5375.7	6613.5	7238.7	7144.5	5481.1
42.5°	5196.1	5218.7	5277.7	5220.0	5192.4	5350.6	5710.9	6805.6	7606.5	7513.6	5791.2
45°	5626.7	5643.1	5665.7	5618.0	5589.1	5744.8	5953.2	6889.7	7886.5	7786.0	5999.6
47.5°	6092.5	6105.1	6105.1	6007.1	5914.2	5978.3	6115.1	6937.4	8143.8	8047.2	6154.0
50°	6426.4	6432.7	6488.0	6418.9	6216.8	6117.6	6189.2	6983.8	8314.6	8224.2	6204.2
52.5°	6130.2	6122.6	6304.7	6447.8	6501.8	6304.7	6317.2	7051.6	8397.4	8319.6	6244.4
55°	5162.2	5149.7	5405.8	5753.5	6229.3	6481.7	6471.6	7091.8	8489.1	8441.4	6390.0
57.5°	3742.4	3721.0	4077.6	4464.2	5088.2	5772.4	6174.1	7069.2	8529.3	8525.5	6559.5
60°	2249.7	2232.1	2568.6	2975.3	3457.4	4145.4	4812.0	6332.3	7991.9	7999.5	6118.9
62.5°	1384.7	1401.0	1704.8	1912.0	2091.5	2298.7	2684.1	4259.6	5920.5	5969.5	4299.8
65°	931.5	944.1	1225.3	1486.4	1486.4	1215.2	1043.2	2036.3	3158.6	3075.8	2033.8
67.5°	625.2	639.0	861.2	1166.3	1210.2	847.4	423.1	607.6	880.0	853.7	503.4
70°	367.8	382.9	573.7	799.7	881.3	590.0	282.5	257.4	249.8	242.3	195.8
72.5°	164.5	170.7	292.5	406.8	371.6	248.6	199.6	205.9	194.6	190.8	159.4
75°	50.2	52.7	75.3	87.9	89.1	89.1	120.5	161.9	153.2	154.4	123.0
77.5°	12.6	12.6	20.1	18.8	10.0	8.8	22.6	36.4	37.7	33.9	25.1
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°	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0	1735.0
2.5°	1758.8	1726.2	1704.8	1674.7	1653.4	1630.8	1610.7	1594.4	1585.6	1583.1	1584.3
5°	1799.0	1747.5	1697.3	1639.6	1599.4	1561.7	1531.6	1507.7	1496.4	1492.7	1492.7
7.5°	1860.5	1789.0	1699.8	1609.4	1541.6	1482.6	1447.5	1421.1	1411.1	1408.6	1401.0
10°	1940.9	1842.9	1696.1	1555.5	1460.0	1398.5	1373.4	1365.9	1369.7	1370.9	1369.7
12.5°	2037.5	1899.4	1672.2	1476.4	1373.4	1335.8	1338.3	1358.4	1381.0	1392.2	1394.8
15°	2140.5	1950.9	1618.2	1382.2	1299.3	1298.1	1334.5	1381.0	1424.9	1443.7	1448.7
17.5°	2256.0	1992.3	1535.4	1281.8	1235.3	1271.7	1337.0	1408.6	1467.6	1499.0	1505.2
20°	2382.8	2026.2	1429.9	1187.6	1178.8	1244.1	1334.5	1422.4	1495.2	1530.3	1536.6
22.5°	2514.6	2050.1	1308.1	1101.0	1127.4	1212.7	1310.6	1396.0	1465.1	1505.2	1510.3
25°	2665.2	2052.6	1183.9	1028.2	1079.7	1170.0	1252.9	1323.2	1381.0	1416.1	1419.9
27.5°	2797.1	2022.5	1073.4	969.2	1035.7	1117.3	1172.6	1211.5	1251.6	1271.7	1273.0
30°	2949.0	1969.7	969.2	921.5	990.5	1052.0	1079.7	1088.4	1092.2	1096.0	1091.0
32.5°	3129.7	1905.7	891.3	875.0	939.0	980.5	988.0	970.4	949.1	919.0	911.4
35°	3351.9	1848.0	827.3	829.8	882.6	907.7	901.4	863.7	822.3	785.9	779.6
37.5°	3593.0	1799.0	778.4	785.9	821.0	838.6	819.8	778.4	759.5	728.1	729.4
40°	3806.4	1758.8	734.4	741.9	758.3	774.6	744.5	716.8	752.0	749.5	752.0
42.5°	3958.3	1724.9	696.8	693.0	704.3	715.6	693.0	679.2	738.2	721.9	730.6
45°	4047.4	1693.5	665.4	642.8	660.3	680.4	665.4	647.8	667.9	592.6	586.3
47.5°	4107.7	1676.0	637.7	593.8	625.2	660.3	629.0	586.3	557.4	492.1	487.1
50°	4114.0	1667.2	605.1	543.6	583.8	621.4	585.0	526.0	484.6	455.7	451.9
52.5°	4146.6	1684.8	559.9	479.6	523.5	583.8	558.7	499.7	443.2	418.1	413.0
55°	4292.2	1758.8	484.6	391.7	455.7	554.9	537.3	445.7	391.7	376.6	372.9
57.5°	4442.9	1773.9	381.6	310.1	396.7	513.5	490.9	410.5	357.8	340.2	336.4
60°	4062.5	1461.3	286.2	256.1	350.3	474.5	454.5	389.2	327.7	306.3	302.6
62.5°	2669.0	789.7	227.2	217.2	295.0	401.7	414.3	351.5	292.5	269.9	268.7
65°	1230.3	366.6	174.5	172.0	231.0	320.1	356.5	307.6	247.3	227.2	227.2
67.5°	335.2	182.0	136.8	126.8	156.9	214.7	259.9	229.7	175.8	151.9	150.6
70°	167.0	146.9	123.0	109.2	113.0	133.1	153.2	128.1	89.1	72.8	71.6
72.5°	136.8	120.5	104.2	92.9	85.4	81.6	79.1	64.0	41.4	31.4	30.1
75°	101.7	86.6	74.1	60.3	51.5	47.7	42.7	31.4	17.6	10.0	8.8
77.5°	22.6	21.3	20.1	15.1	13.8	11.3	8.8	6.3	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)