

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: P630215

Luminaire Tested: GWS-SA1D-730-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-730-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5622.9 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.3  
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

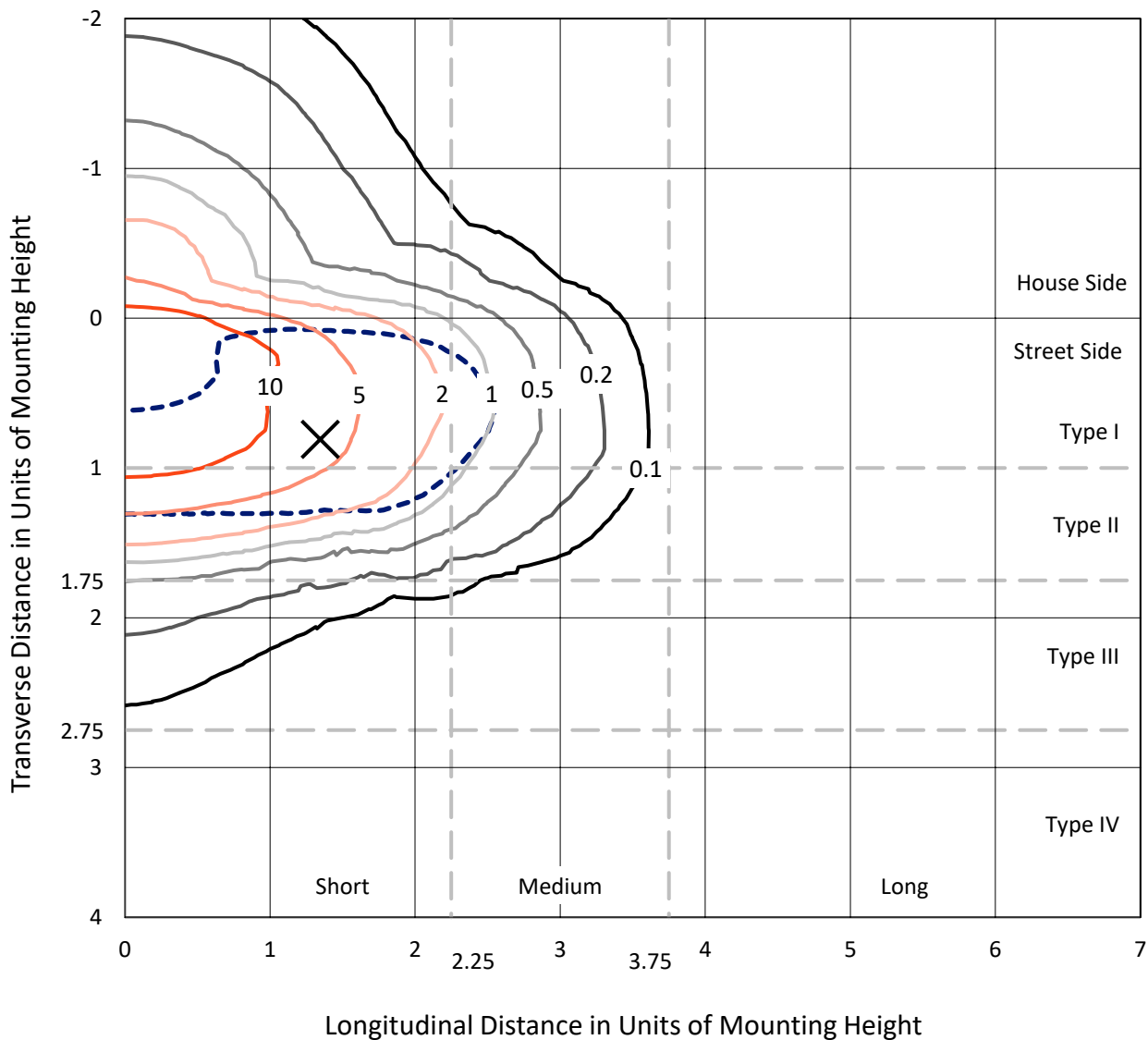


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### Iso-Footcandle Lines of Horizontal Illumination

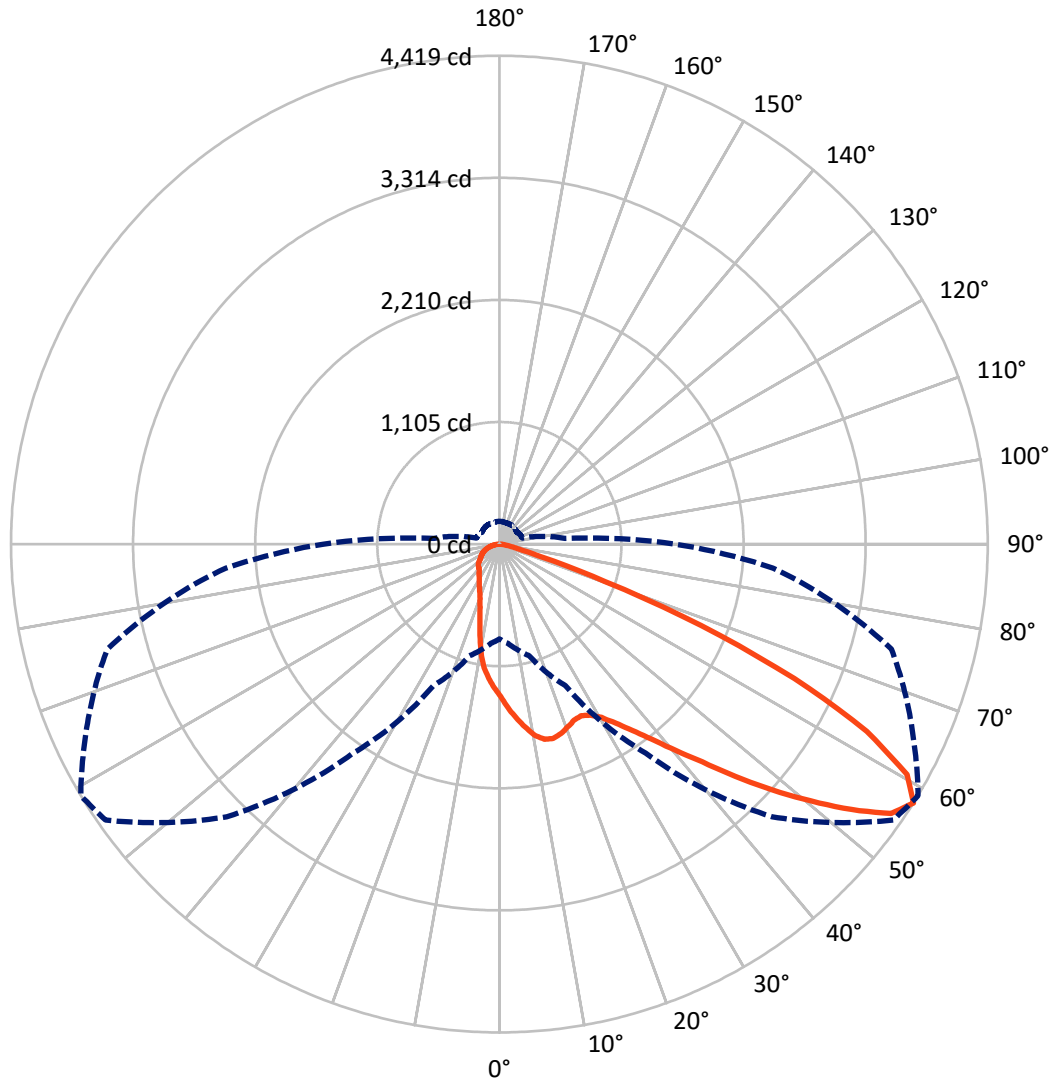
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	872.6	0.0	872.6
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	4750.3	0.0	4750.3
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	5622.9	0.0	5622.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.2	2.3
10°-20°	324.8	5.8
20°-30°	526.5	9.4
30°-40°	846.9	15.1
40°-50°	1315.1	23.4
50°-60°	1416.5	25.2
60°-70°	822.1	14.6
70°-80°	214.6	3.8
80°-90°	28.3	0.5
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°	5622.9	100.0
0°-180°	5622.9	100.0

**Coefficient of Utilization**



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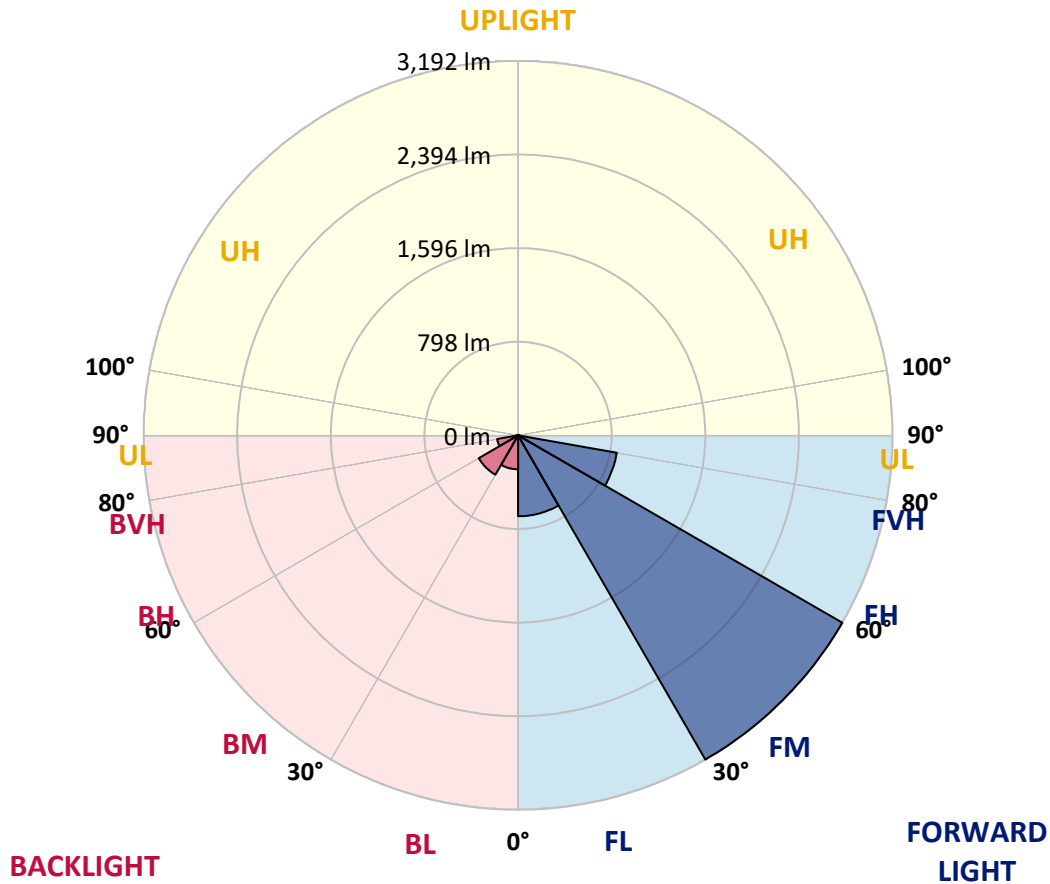
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.9	12.3			
FM (30°-60°)	3191.6	56.8			
FH (60°-80°)	855.2	15.2			G1/1800
FVH (80°-90°)	13.5	0.2			G1/100
BL (0°-30°)	289.5	5.1	B1/500		
BM (30°-60°)	386.9	6.9	B1/1000		
BH (60°-80°)	181.5	3.2	B1/500		G1/500
BVH (80°-90°)	14.7	0.3			G1/100
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°	59°	65°	75°	85°
0°	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3
2.5°	1565.6	1552.5	1561.6	1545.4	1538.6	1520.8	1497.9	1482.4	1458.7	1427.8	1400.9
5°	1721.1	1712.0	1714.0	1696.6	1681.2	1651.5	1604.4	1578.2	1537.9	1475.7	1417.9
7.5°	1716.4	1727.1	1733.0	1748.0	1752.4	1749.6	1707.3	1670.9	1626.5	1533.1	1446.0
10°	1538.6	1558.8	1577.0	1628.5	1691.0	1770.2	1780.1	1758.3	1713.6	1606.3	1479.7
12.5°	1345.1	1360.5	1376.7	1438.5	1534.3	1692.6	1799.9	1813.4	1795.6	1678.8	1517.7
15°	1250.1	1257.2	1272.6	1313.4	1389.8	1565.6	1765.5	1824.4	1856.5	1755.6	1560.4
17.5°	1246.1	1249.3	1256.8	1278.6	1331.6	1467.4	1703.3	1802.3	1904.4	1836.7	1610.3
20°	1328.1	1319.7	1315.0	1314.6	1340.7	1434.5	1643.2	1766.7	1927.0	1919.8	1663.7
22.5°	1441.7	1444.4	1434.1	1408.8	1405.6	1457.9	1613.1	1730.6	1933.7	1993.5	1713.2
25°	1602.8	1616.6	1586.1	1537.9	1514.1	1525.6	1631.7	1719.5	1932.9	2054.8	1744.1
27.5°	1790.8	1801.5	1770.6	1707.3	1658.2	1630.5	1687.1	1752.4	1939.6	2107.9	1762.7
30°	2005.0	2008.5	1966.2	1899.7	1828.0	1768.6	1779.3	1820.1	1974.1	2177.5	1784.5
32.5°	2266.6	2281.6	2217.5	2112.2	2012.1	1936.1	1903.2	1929.3	2048.5	2259.9	1818.1
35°	2598.7	2603.9	2522.3	2371.5	2229.8	2124.5	2055.6	2069.5	2161.7	2375.1	1868.8
37.5°	2911.8	2917.0	2830.3	2690.2	2487.5	2343.4	2243.6	2237.3	2306.6	2537.8	1951.5
40°	3110.5	3125.2	3086.4	2998.5	2805.0	2610.6	2475.2	2453.4	2496.6	2736.9	2066.7
42.5°	3217.4	3223.8	3223.0	3234.4	3119.3	2926.1	2736.5	2692.9	2721.8	2951.8	2183.1
45°	3218.2	3234.0	3276.4	3386.8	3392.0	3271.7	3066.6	2998.5	2972.0	3168.3	2304.6
47.5°	3074.1	3091.1	3207.5	3424.8	3585.2	3612.5	3462.1	3325.5	3213.9	3354.8	2404.4
50°	2637.9	2680.7	2902.3	3286.7	3623.2	3885.6	3839.3	3654.0	3428.8	3498.9	2466.9
52.5°	2259.1	2257.5	2394.1	2896.4	3464.4	4005.9	4204.3	3992.1	3641.4	3590.3	2482.7
55°	1654.2	1663.3	1803.1	2215.1	3040.9	3889.6	4405.0	4303.2	3885.2	3639.0	2476.4
57.5°	857.8	902.9	1046.2	1413.6	2310.5	3489.0	4351.5	4419.2	4133.0	3673.4	2484.7
60°	433.4	424.7	476.2	674.9	1338.7	2725.0	4022.2	4237.9	4177.7	3700.4	2489.9
62.5°	289.4	287.0	272.7	312.7	547.1	1613.9	3428.8	3731.2	3867.0	3637.0	2424.2
65°	250.6	245.8	219.7	218.1	265.6	669.4	2513.2	2933.2	3196.0	3355.6	2267.0
67.5°	225.6	218.5	192.0	178.9	190.8	294.1	1416.3	1967.3	2360.0	2837.8	1922.6
70°	201.5	197.9	171.4	152.4	151.2	179.3	521.7	1015.3	1444.0	1936.1	1405.6
72.5°	180.5	174.2	151.6	133.4	124.3	127.1	226.4	391.1	747.4	1207.7	840.8
75°	156.4	151.6	131.8	113.6	102.5	93.0	138.1	180.9	340.8	574.0	397.0
77.5°	120.7	117.6	104.1	90.3	83.9	69.3	83.9	114.0	157.5	241.9	206.6
80°	70.1	72.0	77.6	70.5	61.8	49.5	54.6	65.7	94.6	131.0	117.2
82.5°	35.2	37.6	50.3	40.8	36.8	28.9	32.5	38.8	49.5	72.4	45.9
85°	2.8	2.8	9.1	10.3	12.7	10.3	13.1	15.8	22.6	28.9	15.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.0	3.6	6.7	4.4
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°	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3
2.5°	1382.7	1362.5	1338.4	1318.6	1288.1	1271.8	1251.3	1225.9	1215.6	1210.9	1208.1
5°	1385.5	1349.8	1298.4	1250.9	1198.2	1156.7	1110.3	1062.1	1034.3	1027.6	1022.9
7.5°	1395.7	1345.9	1263.9	1185.6	1087.8	997.1	908.9	821.4	776.6	759.6	758.0
10°	1410.0	1344.3	1229.1	1098.9	933.8	790.5	687.2	618.7	589.8	580.3	577.1
12.5°	1427.8	1343.1	1183.2	978.5	756.1	620.7	561.7	550.6	554.6	553.8	553.8
15°	1450.4	1344.7	1127.8	842.4	611.6	538.7	539.9	553.0	565.3	567.2	567.2
17.5°	1474.9	1343.1	1047.4	705.8	524.9	519.3	537.6	555.8	566.8	568.4	568.4
20°	1501.4	1335.6	946.1	577.1	486.9	507.1	526.9	541.1	547.8	549.4	549.4
22.5°	1517.3	1314.2	836.0	488.5	462.7	487.7	500.7	515.4	516.2	503.5	503.1
25°	1514.9	1274.2	710.5	431.5	437.0	458.8	475.4	465.1	452.5	445.3	444.1
27.5°	1499.9	1214.1	582.7	388.3	406.5	431.1	425.9	417.2	414.1	406.1	405.3
30°	1480.9	1140.0	467.9	354.7	374.9	397.4	389.5	388.7	385.6	376.8	376.8
32.5°	1462.6	1063.6	381.2	329.7	354.7	356.3	367.3	368.1	366.6	351.5	349.9
35°	1457.5	987.2	322.6	309.9	334.9	334.1	349.9	349.5	322.2	301.2	300.8
37.5°	1472.9	909.7	287.8	293.7	307.6	317.9	330.5	307.6	298.5	285.8	285.0
40°	1505.8	838.0	270.0	284.2	290.2	305.2	285.4	287.0	284.6	275.1	273.9
42.5°	1549.3	777.0	260.1	281.0	280.3	284.2	262.4	268.8	272.3	265.2	264.0
45°	1591.3	724.0	254.9	269.2	273.1	250.2	245.8	251.8	257.3	254.5	253.3
47.5°	1622.2	678.1	252.2	252.9	264.0	238.7	231.6	234.3	241.1	242.3	241.9
50°	1631.7	638.9	249.0	239.5	237.1	227.2	221.7	220.9	228.8	234.3	235.1
52.5°	1613.5	604.1	240.7	227.6	216.1	217.7	215.7	211.8	219.7	227.2	228.0
55°	1586.5	584.3	227.6	216.1	202.7	209.0	209.8	206.2	211.4	216.5	216.5
57.5°	1588.5	595.7	214.9	205.4	190.8	199.1	203.5	201.9	201.9	205.8	206.2
60°	1601.6	612.4	206.6	192.0	178.9	187.6	197.5	195.9	192.4	197.5	197.5
62.5°	1564.0	590.2	201.1	178.9	166.3	176.5	188.4	187.6	183.7	192.0	192.8
65°	1453.1	530.8	194.8	162.7	153.6	165.5	175.8	178.5	175.0	186.0	188.0
67.5°	1218.0	446.5	182.5	147.3	140.9	152.0	161.9	165.9	163.1	176.2	177.7
70°	908.1	361.4	163.1	130.2	125.5	135.4	144.5	146.1	146.5	161.9	163.5
72.5°	579.1	281.0	137.4	111.2	107.7	115.2	121.9	128.3	131.0	145.7	145.3
75°	323.0	209.0	110.4	94.2	87.9	93.8	101.7	109.3	117.2	138.5	140.9
77.5°	186.0	146.9	87.5	75.6	68.1	74.4	81.1	91.8	115.6	134.2	131.8
80°	104.9	95.4	66.1	55.4	50.7	55.4	60.6	80.8	91.0	99.0	100.1
82.5°	49.1	53.4	45.1	34.0	34.0	37.2	42.0	62.5	68.9	56.2	49.1
85°	17.8	24.1	22.2	17.4	15.4	15.0	26.1	35.6	22.2	19.8	17.0
87.5°	4.8	6.7	6.3	4.4	2.4	2.0	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)