

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: P630769

Luminaire Tested: GWS-SA1E-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-735-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

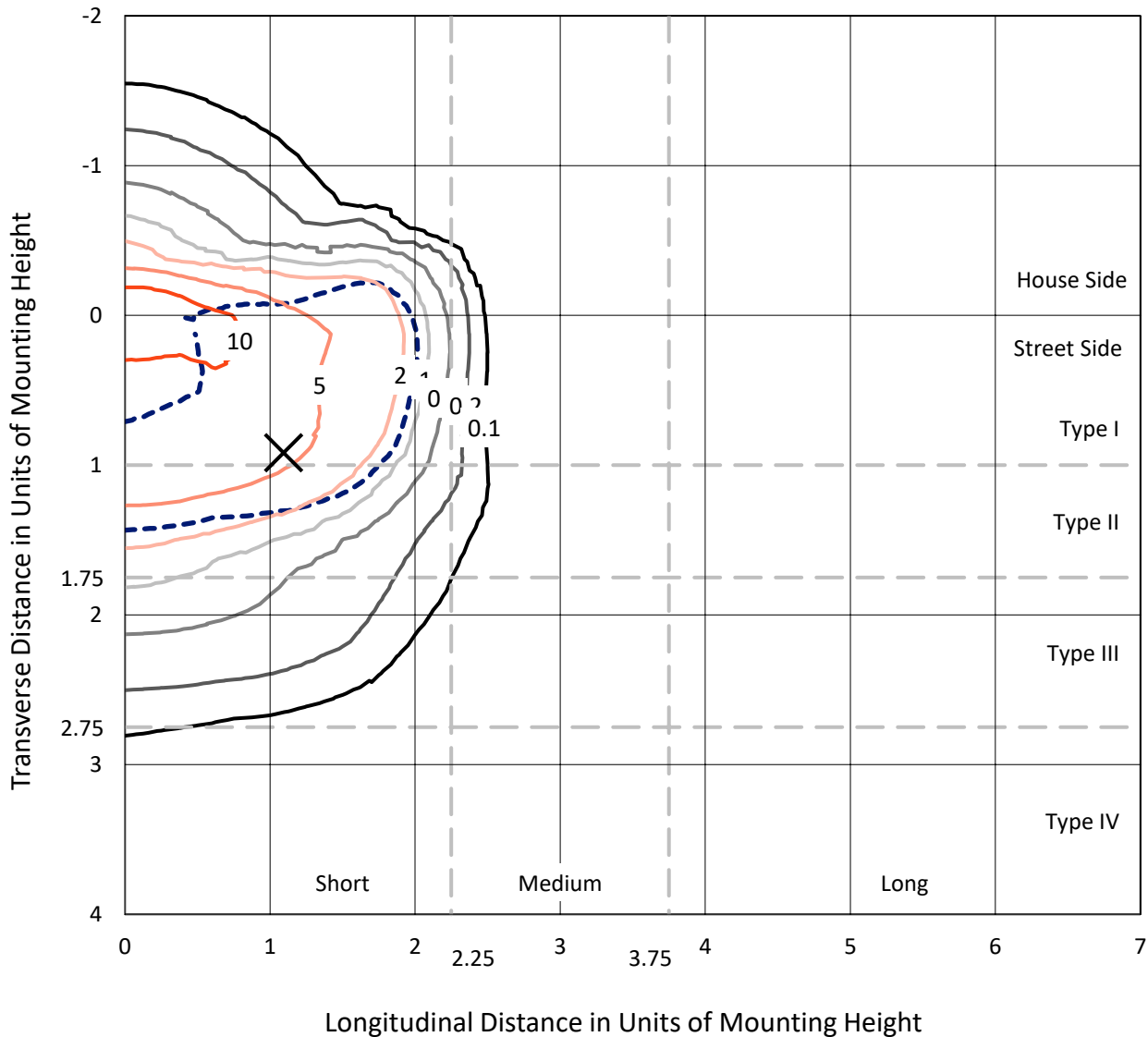
Lumens per Lamp: N/A  
Luminaire Lumens: 4388.5 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

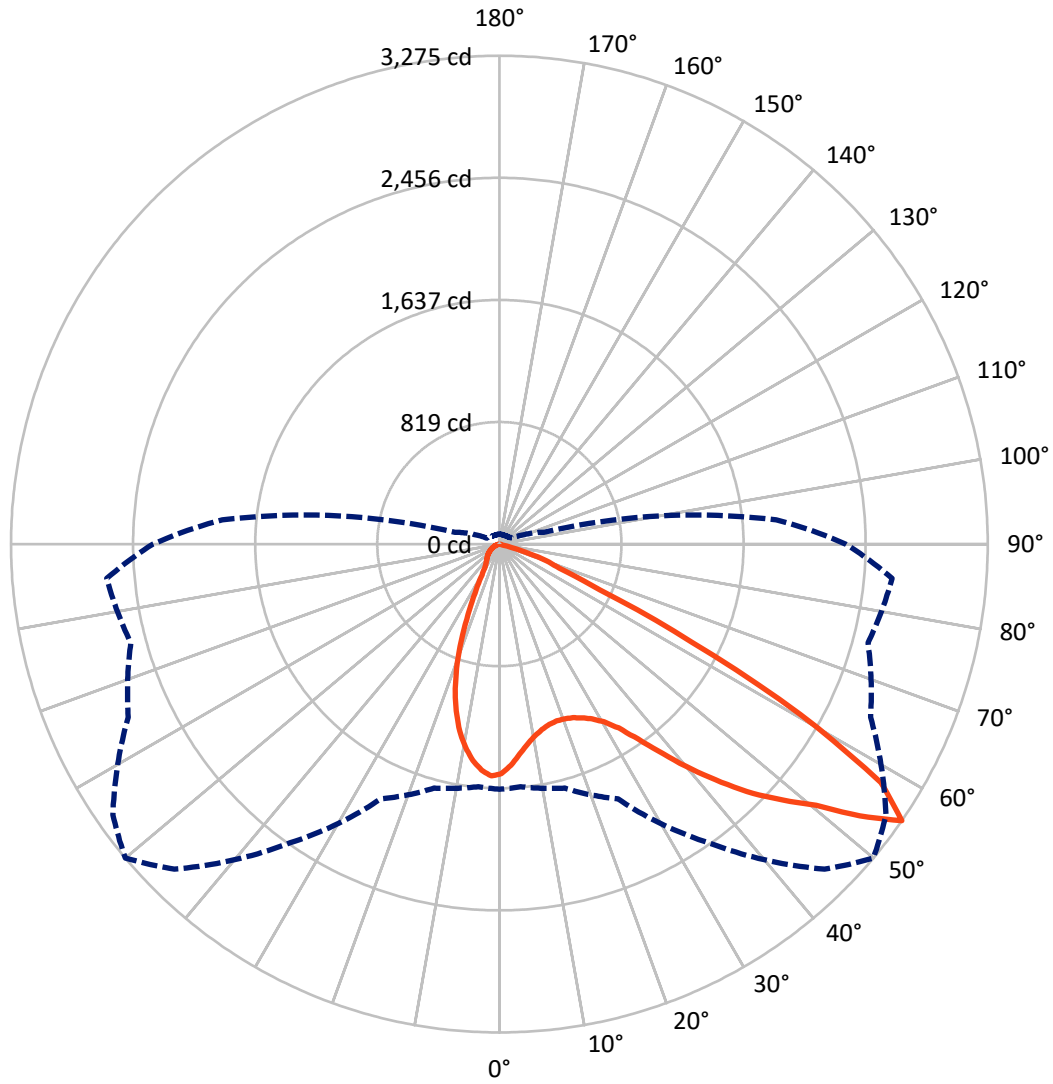
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	864.7	0.0	864.7
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	3523.8	0.0	3523.8
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	4388.5	0.0	4388.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.2	3.1
10°-20°	332.8	7.6
20°-30°	469.4	10.7
30°-40°	694.6	15.8
40°-50°	1002.0	22.8
50°-60°	1182.0	26.9
60°-70°	527.3	12.0
70°-80°	45.3	1.0
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°	4388.5	100.0
0°-180°	4388.5	100.0

**Coefficient of Utilization**



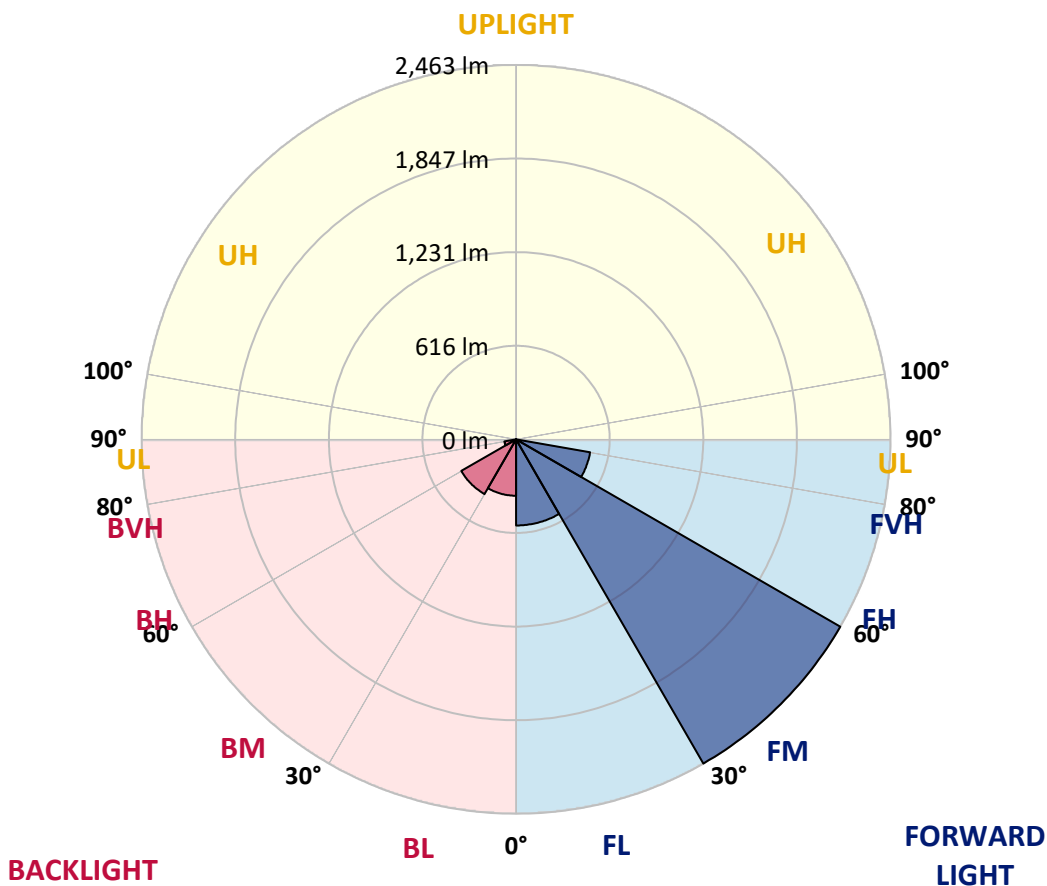
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.6	12.9			
FM (30°-60°)	2462.7	56.1			
FH (60°-80°)	494.5	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	370.8	8.4	B1/500		
BM (30°-60°)	415.9	9.5	B1/1000		
BH (60°-80°)	78.1	1.8	B0/110		G0/110
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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7
2.5°	1430.4	1431.5	1432.0	1446.5	1451.9	1473.3	1484.5	1490.4	1506.0	1524.2	1539.2
5°	1334.5	1332.9	1335.6	1353.8	1365.6	1397.2	1414.4	1426.2	1460.4	1503.3	1539.2
7.5°	1251.0	1254.2	1257.4	1277.2	1294.9	1329.2	1353.8	1371.5	1419.2	1482.9	1543.5
10°	1192.0	1192.0	1196.9	1219.4	1240.2	1282.6	1307.2	1329.7	1386.5	1464.7	1548.3
12.5°	1148.6	1149.2	1155.1	1180.8	1204.9	1248.8	1274.5	1296.5	1359.2	1446.5	1549.4
15°	1128.3	1126.7	1131.5	1158.8	1185.6	1226.9	1253.6	1275.1	1339.9	1436.3	1554.7
17.5°	1122.9	1121.8	1125.6	1152.4	1179.7	1219.9	1246.1	1267.6	1337.2	1439.5	1570.8
20°	1138.5	1136.3	1134.7	1157.7	1183.5	1223.1	1250.4	1274.5	1350.1	1457.2	1595.4
22.5°	1175.4	1175.4	1171.7	1182.9	1200.1	1236.0	1264.4	1296.0	1383.8	1492.6	1631.9
25°	1243.5	1238.1	1231.1	1236.0	1233.8	1256.3	1290.1	1334.0	1447.6	1551.0	1676.3
27.5°	1321.1	1326.0	1314.2	1314.7	1296.0	1287.9	1327.0	1393.5	1542.4	1633.5	1742.2
30°	1426.7	1422.9	1423.5	1421.9	1378.5	1340.4	1382.8	1471.2	1661.9	1759.4	1828.0
32.5°	1509.2	1514.5	1532.2	1542.4	1485.6	1424.5	1469.5	1576.7	1798.0	1903.0	1933.0
35°	1596.5	1606.2	1642.1	1675.3	1627.6	1557.4	1605.6	1716.5	1926.0	2044.9	2053.5
37.5°	1688.7	1708.0	1750.8	1809.2	1801.7	1739.6	1783.5	1881.0	2026.7	2130.7	2153.2
40°	1794.2	1813.0	1883.1	1967.3	1984.9	1971.0	1985.5	2042.3	2093.2	2134.4	2196.0
42.5°	1909.9	1935.6	2024.6	2137.1	2203.5	2215.8	2182.1	2176.2	2122.1	2091.5	2186.9
45°	2046.5	2076.5	2177.3	2323.0	2428.5	2445.1	2386.7	2311.2	2140.3	2059.9	2159.6
47.5°	2199.8	2228.2	2328.3	2503.5	2660.5	2666.9	2565.1	2443.5	2194.4	2096.4	2180.5
50°	2251.2	2268.9	2355.7	2561.4	2850.7	2900.0	2752.7	2592.5	2303.2	2203.5	2282.3
52.5°	2074.4	2081.4	2156.9	2364.8	2812.1	3128.7	3026.4	2814.8	2496.6	2366.9	2439.2
55°	1643.7	1632.4	1693.5	1884.2	2444.1	3082.1	3274.5	3164.1	2745.7	2558.7	2643.4
57.5°	1149.7	1136.3	1122.4	1251.5	1823.7	2612.8	3017.3	3212.9	2983.0	2748.9	2863.6
60°	945.1	932.2	864.7	805.2	1102.6	1876.2	2317.6	2685.7	2963.7	2739.3	2856.6
62.5°	816.5	809.0	781.7	700.8	648.8	1071.0	1451.3	1803.9	2274.2	2151.0	2157.4
65°	641.3	639.1	657.9	666.5	573.8	592.5	740.4	937.6	1229.5	1159.4	1099.3
67.5°	438.2	433.4	468.8	576.5	551.8	467.7	433.4	437.2	532.0	325.2	258.2
70°	278.6	267.3	267.9	357.3	449.0	369.1	334.3	294.1	264.7	48.2	54.6
72.5°	178.4	171.4	147.3	161.3	207.9	180.0	181.6	156.4	104.5	25.7	30.0
75°	75.0	69.1	53.0	42.3	41.8	26.3	23.0	21.4	14.5	14.5	15.5
77.5°	0.5	0.0	0.0	0.5	1.1	0.5	0.5	1.1	2.1	3.2	3.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7	1539.7
2.5°	1548.3	1535.4	1549.9	1555.3	1554.7	1555.3	1539.7	1529.0	1528.5	1515.1	1508.7
5°	1554.2	1544.0	1554.7	1547.8	1531.2	1510.3	1482.4	1458.3	1447.6	1432.0	1424.5
7.5°	1565.4	1554.7	1553.1	1525.3	1484.0	1440.1	1390.8	1346.9	1323.3	1294.9	1296.5
10°	1573.5	1561.2	1540.3	1483.5	1414.9	1344.7	1271.3	1206.0	1164.7	1126.7	1120.2
12.5°	1576.7	1558.5	1509.7	1424.0	1327.6	1236.0	1128.3	1035.1	970.8	920.9	914.0
15°	1582.6	1553.1	1470.6	1352.2	1219.9	1090.2	953.1	825.6	740.4	683.1	687.9
17.5°	1591.7	1547.2	1426.7	1271.9	1104.2	920.9	735.6	589.3	511.1	477.9	478.4
20°	1604.6	1540.3	1378.5	1183.5	965.4	729.7	514.3	404.0	382.0	380.9	379.3
22.5°	1621.7	1533.3	1327.0	1086.5	800.9	511.1	342.3	308.1	317.2	334.8	338.1
25°	1642.1	1524.7	1269.7	977.2	621.5	335.4	256.6	251.3	273.2	296.8	302.2
27.5°	1673.7	1520.4	1204.4	852.9	436.1	240.5	210.0	213.2	233.0	252.9	257.7
30°	1727.2	1528.5	1133.1	713.6	280.2	191.8	182.2	187.0	197.7	207.9	212.2
32.5°	1800.1	1552.1	1064.0	561.5	199.8	166.6	164.5	167.2	171.4	177.3	178.9
35°	1885.3	1592.8	992.7	401.8	165.0	152.2	150.0	150.0	152.2	153.2	153.8
37.5°	1955.5	1635.6	925.8	267.3	147.9	140.9	137.7	136.1	135.5	136.6	137.2
40°	1986.0	1653.3	852.9	194.5	135.5	130.7	125.9	121.1	121.1	124.8	125.4
42.5°	1964.6	1633.5	768.8	160.7	127.0	120.0	112.5	108.2	110.4	114.1	115.2
45°	1919.0	1584.7	676.1	142.0	118.4	109.3	100.7	98.0	100.2	105.0	106.1
47.5°	1911.5	1552.6	565.2	129.7	109.3	100.2	91.1	88.4	91.1	94.8	95.9
50°	1986.0	1580.4	442.0	118.9	100.7	90.5	83.0	80.4	82.0	84.1	85.2
52.5°	2122.1	1683.8	356.8	108.8	90.5	80.9	76.1	72.9	72.9	75.0	75.5
55°	2323.0	1864.4	308.1	97.0	78.8	73.4	69.1	65.9	65.9	67.0	67.5
57.5°	2554.4	2083.0	319.3	81.4	69.1	66.4	62.7	60.0	61.1	61.1	61.1
60°	2522.3	2066.9	341.8	68.6	61.1	60.0	56.8	55.7	58.4	56.3	55.2
62.5°	1858.0	1427.8	178.9	56.3	52.5	51.4	49.3	51.4	55.2	49.3	47.1
65°	902.2	691.1	71.8	46.1	44.5	43.4	42.3	45.5	47.7	38.6	36.4
67.5°	212.2	172.5	46.6	39.1	37.0	34.8	35.9	36.4	34.8	26.3	25.2
70°	55.2	54.1	36.4	32.7	29.5	27.3	27.3	26.8	23.0	16.6	15.5
72.5°	30.0	29.5	26.3	24.6	20.4	18.2	18.8	16.6	12.9	9.6	9.1
75°	15.0	16.1	15.0	13.9	11.3	10.2	10.2	9.1	6.4	3.8	3.8
77.5°	3.2	3.8	3.8	3.2	2.7	2.1	2.1	2.7	1.1	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	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)