

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: P631268

Luminaire Tested: GWS-SA1F-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-735-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

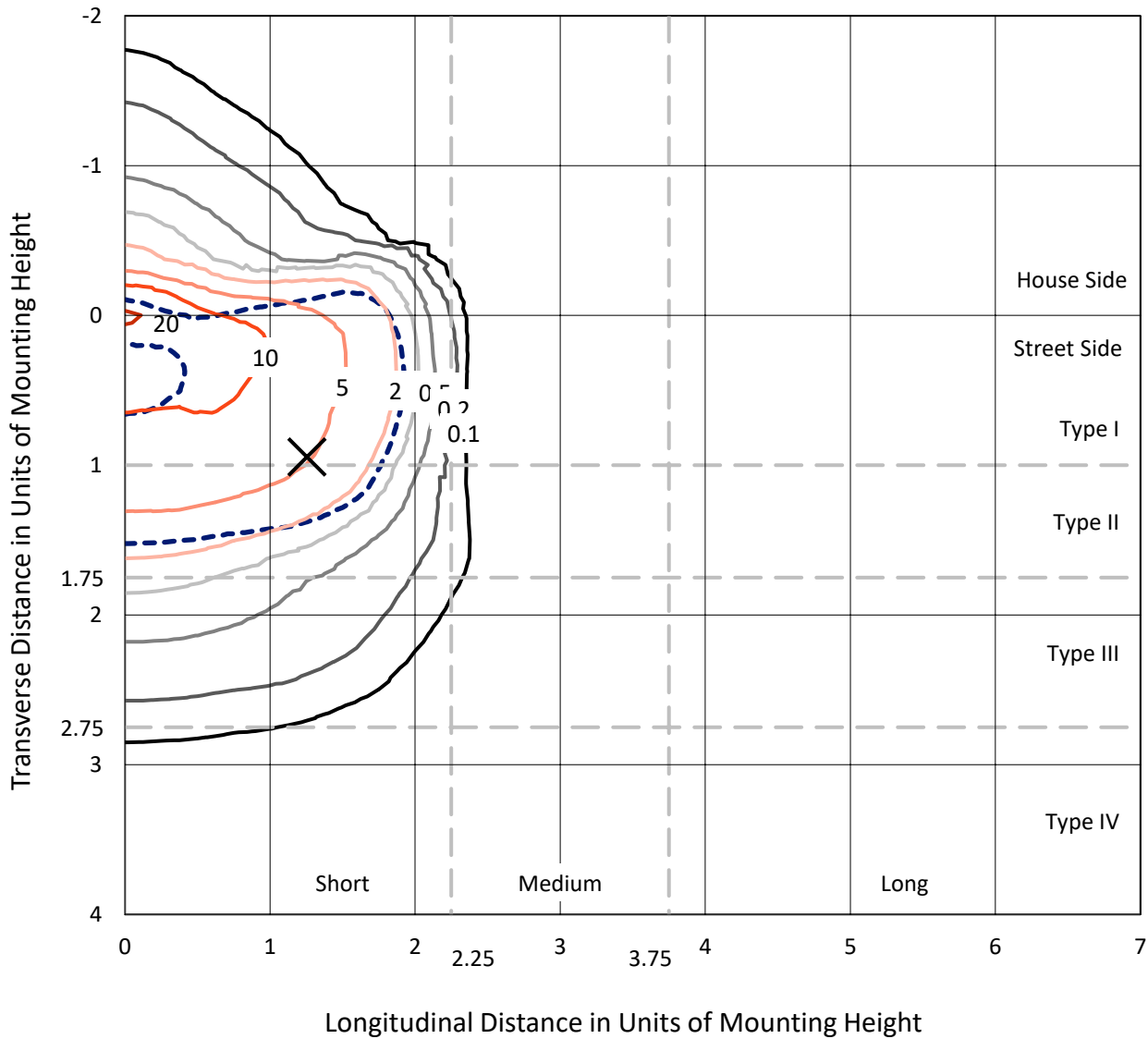
Lumens per Lamp: N/A  
Luminaire Lumens: 4860.2 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

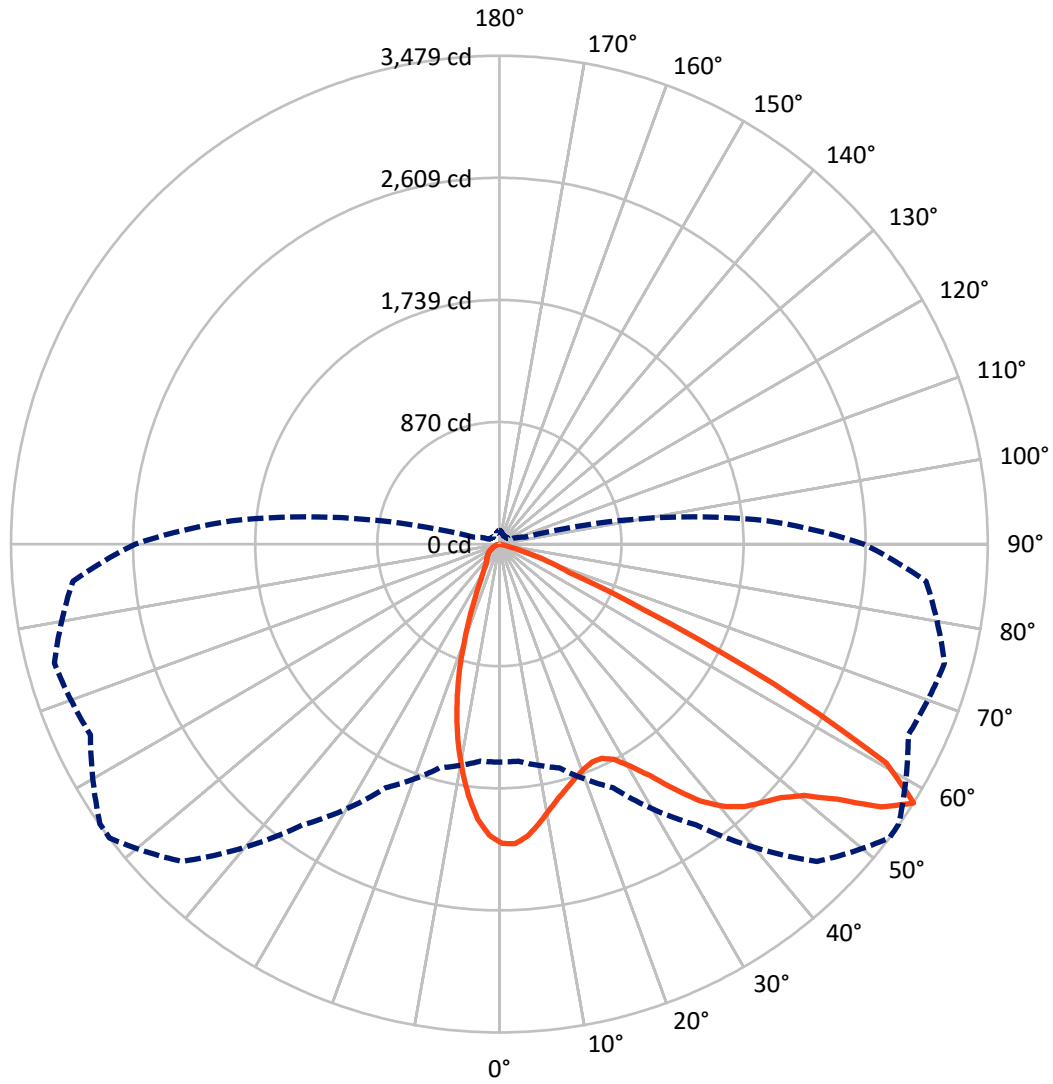
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	802.8	0.0	802.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	4057.4	0.0	4057.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	4860.2	0.0	4860.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.4	3.8
10°-20°	400.4	8.2
20°-30°	521.7	10.7
30°-40°	756.7	15.6
40°-50°	1091.9	22.5
50°-60°	1320.5	27.2
60°-70°	538.2	11.1
70°-80°	48.4	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°	4860.2	100.0
0°-180°	4860.2	100.0

**Coefficient of Utilization**



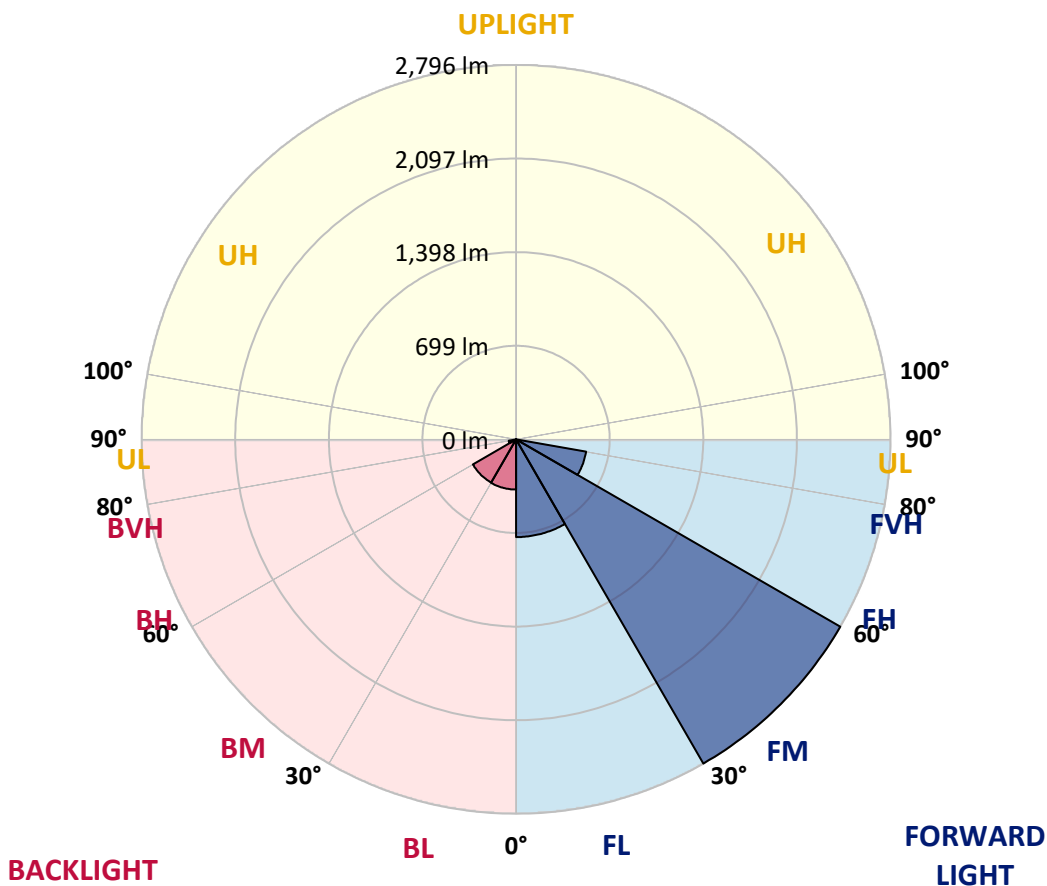
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	729.8	15.0			
FM (30°-60°)	2796.5	57.5			
FH (60°-80°)	531.1	10.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	374.7	7.7	B1/500		
BM (30°-60°)	372.6	7.7	B1/1000		
BH (60°-80°)	55.5	1.1	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°	53°	55°	65°	75°	85°
0°	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0
2.5°	2102.2	2106.9	2115.3	2126.0	2133.2	2136.7	2136.7	2146.9	2140.3	2134.9	2129.0
5°	2012.2	2017.0	2028.3	2045.6	2062.9	2075.4	2089.7	2100.4	2104.6	2104.6	2094.4
7.5°	1885.3	1891.9	1899.0	1922.9	1960.4	1988.4	2012.8	2028.3	2050.9	2058.1	2043.8
10°	1748.9	1755.5	1771.6	1804.3	1847.2	1888.9	1930.6	1950.3	1989.0	2009.2	1993.2
12.5°	1633.4	1636.3	1657.8	1697.1	1751.9	1809.1	1859.7	1880.0	1934.8	1965.2	1946.1
15°	1538.1	1539.8	1561.3	1604.8	1667.9	1738.2	1802.0	1822.8	1890.1	1936.0	1907.4
17.5°	1466.0	1466.6	1485.0	1532.1	1598.2	1676.3	1751.9	1777.5	1864.5	1919.9	1877.0
20°	1429.6	1427.9	1441.0	1482.1	1544.6	1622.6	1712.0	1743.6	1850.2	1917.5	1853.8
22.5°	1430.2	1426.1	1431.4	1460.6	1513.6	1586.9	1687.0	1722.7	1851.4	1927.6	1834.1
25°	1464.2	1458.2	1459.4	1474.9	1512.4	1579.2	1690.6	1728.7	1875.2	1961.6	1827.0
27.5°	1521.4	1514.8	1514.8	1522.6	1542.8	1603.6	1735.2	1778.7	1939.0	2027.7	1841.9
30°	1595.2	1588.7	1586.3	1594.1	1610.7	1666.7	1834.7	1880.0	2048.0	2136.1	1889.5
32.5°	1679.8	1672.1	1676.3	1687.0	1703.1	1780.5	1962.8	2023.0	2184.4	2282.1	1975.3
35°	1769.2	1762.6	1781.7	1804.9	1829.9	1938.4	2139.7	2192.1	2351.8	2463.8	2106.3
37.5°	1854.4	1851.4	1891.3	1940.1	1992.0	2127.8	2319.6	2360.1	2495.3	2661.5	2266.6
40°	1939.6	1939.0	2007.5	2093.2	2176.0	2316.6	2456.0	2489.4	2582.9	2815.2	2420.3
42.5°	2034.9	2034.9	2129.6	2243.9	2354.2	2476.3	2556.1	2571.0	2622.2	2904.0	2535.8
45°	2126.0	2131.4	2241.0	2373.8	2504.3	2600.8	2625.2	2626.4	2638.3	2956.4	2631.7
47.5°	2198.1	2202.8	2333.9	2487.0	2627.6	2695.5	2699.1	2693.7	2680.6	3006.4	2705.6
50°	2256.5	2263.6	2400.6	2562.6	2712.2	2786.6	2814.0	2808.7	2775.3	3060.0	2757.4
52.5°	2285.1	2295.2	2423.8	2600.2	2806.3	2942.7	3018.9	3031.4	2917.1	3089.8	2806.9
55°	2056.3	2071.2	2189.7	2431.0	2858.7	3183.9	3303.7	3301.3	3070.8	3178.6	2927.2
57.5°	1553.0	1551.8	1650.1	1913.9	2441.7	3197.6	3478.8	3474.0	3214.3	3281.6	3050.5
60°	1057.3	1050.2	1076.4	1203.9	1707.2	2604.9	3166.1	3230.4	3112.5	3031.4	2590.0
62.5°	870.3	863.7	855.4	820.3	980.5	1622.6	2187.4	2285.1	2269.6	2106.9	1624.4
65°	712.4	717.8	741.0	726.1	682.1	832.2	1135.4	1193.2	1090.7	918.0	567.7
67.5°	525.4	527.8	558.2	636.8	613.0	554.0	534.3	543.9	318.7	146.5	94.7
70°	310.4	312.1	340.1	445.6	497.4	425.3	361.0	355.6	126.3	39.3	42.9
72.5°	175.7	172.2	177.5	212.1	271.0	225.8	185.9	169.2	38.1	22.0	22.0
75°	83.4	81.0	69.7	65.5	59.6	38.1	23.8	20.3	9.5	8.9	8.9
77.5°	0.6	1.8	1.2	1.8	1.8	1.2	0.6	0.6	1.8	1.8	2.4
80°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0	2132.0
2.5°	2118.3	2100.4	2096.2	2095.0	2078.3	2060.5	2042.0	2034.9	2024.1	2017.6	2023.0
5°	2078.3	2052.7	2030.1	2009.2	1972.3	1931.8	1896.7	1874.0	1852.6	1838.3	1841.9
7.5°	2021.8	1988.4	1936.6	1883.6	1815.7	1754.9	1687.0	1645.3	1606.6	1585.1	1595.2
10°	1961.6	1917.5	1834.7	1744.8	1638.1	1542.8	1445.7	1366.5	1320.6	1277.2	1281.9
12.5°	1902.6	1844.2	1720.3	1583.9	1449.3	1308.7	1162.2	1052.6	977.5	923.3	915.0
15°	1847.8	1772.8	1608.9	1429.1	1245.6	1058.5	871.5	714.8	627.9	574.2	570.7
17.5°	1799.0	1706.0	1493.4	1267.0	1037.1	797.6	582.6	465.2	415.2	392.0	389.6
20°	1751.9	1638.7	1375.4	1102.6	809.5	559.9	402.1	347.9	331.8	322.3	323.5
22.5°	1706.6	1565.5	1251.5	920.3	607.0	393.2	311.5	290.7	288.9	290.1	290.7
25°	1668.5	1498.2	1124.1	744.6	433.1	299.6	260.3	254.4	259.7	267.5	268.7
27.5°	1648.9	1443.3	999.6	567.7	313.3	243.6	225.8	228.1	237.7	246.0	247.2
30°	1654.2	1402.2	870.9	411.6	241.3	205.5	199.6	204.3	213.9	221.6	222.8
32.5°	1692.3	1381.4	739.2	299.6	198.4	179.3	176.9	180.5	188.8	194.8	195.4
35°	1768.0	1386.2	614.2	229.3	170.4	159.6	159.0	161.4	165.6	169.8	170.4
37.5°	1879.4	1424.9	490.8	190.6	154.3	146.5	144.2	144.2	147.1	148.9	150.1
40°	1999.1	1483.3	393.2	168.6	143.0	134.6	129.9	128.1	130.5	132.8	133.4
42.5°	2098.0	1541.6	319.3	153.1	134.0	122.7	116.8	115.6	118.5	122.7	123.9
45°	2173.7	1586.9	266.3	140.6	123.9	111.4	104.8	104.8	110.2	117.4	118.5
47.5°	2242.8	1623.2	227.0	129.3	114.4	101.3	94.7	95.9	104.8	114.4	116.2
50°	2289.8	1652.4	197.8	119.1	106.6	92.9	87.0	89.4	100.1	111.4	113.2
52.5°	2340.5	1688.2	178.7	110.2	99.5	86.4	81.0	82.8	94.7	107.2	109.6
55°	2480.4	1807.9	178.1	98.3	87.0	77.4	75.1	75.7	87.6	101.9	104.8
57.5°	2594.8	1913.3	190.0	82.8	72.7	67.9	66.7	67.3	78.0	94.1	97.7
60°	2146.9	1486.8	157.3	68.5	60.8	59.6	57.8	59.0	69.1	83.4	86.4
62.5°	1270.6	850.0	75.1	52.4	51.8	50.6	48.8	51.2	60.8	73.3	75.1
65°	434.3	252.0	47.7	42.9	44.1	42.3	40.5	42.9	51.2	58.4	59.0
67.5°	83.4	66.7	38.1	35.7	36.3	32.8	32.2	34.5	39.3	40.5	39.9
70°	43.5	38.7	29.2	29.2	28.0	23.2	23.2	25.6	25.6	23.8	23.2
72.5°	22.6	21.4	19.1	21.4	17.9	14.3	14.3	15.5	14.3	11.9	11.9
75°	8.9	8.9	8.3	10.7	7.7	6.6	6.0	7.1	5.4	4.2	4.2
77.5°	2.4	2.4	2.4	3.0	1.8	1.8	1.2	1.2	0.6	0.0	0.0
80°	0.0	0.6	0.0	0.6	0.0	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)