

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: P633081

Luminaire Tested: GWS-SA2E-722-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-722-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

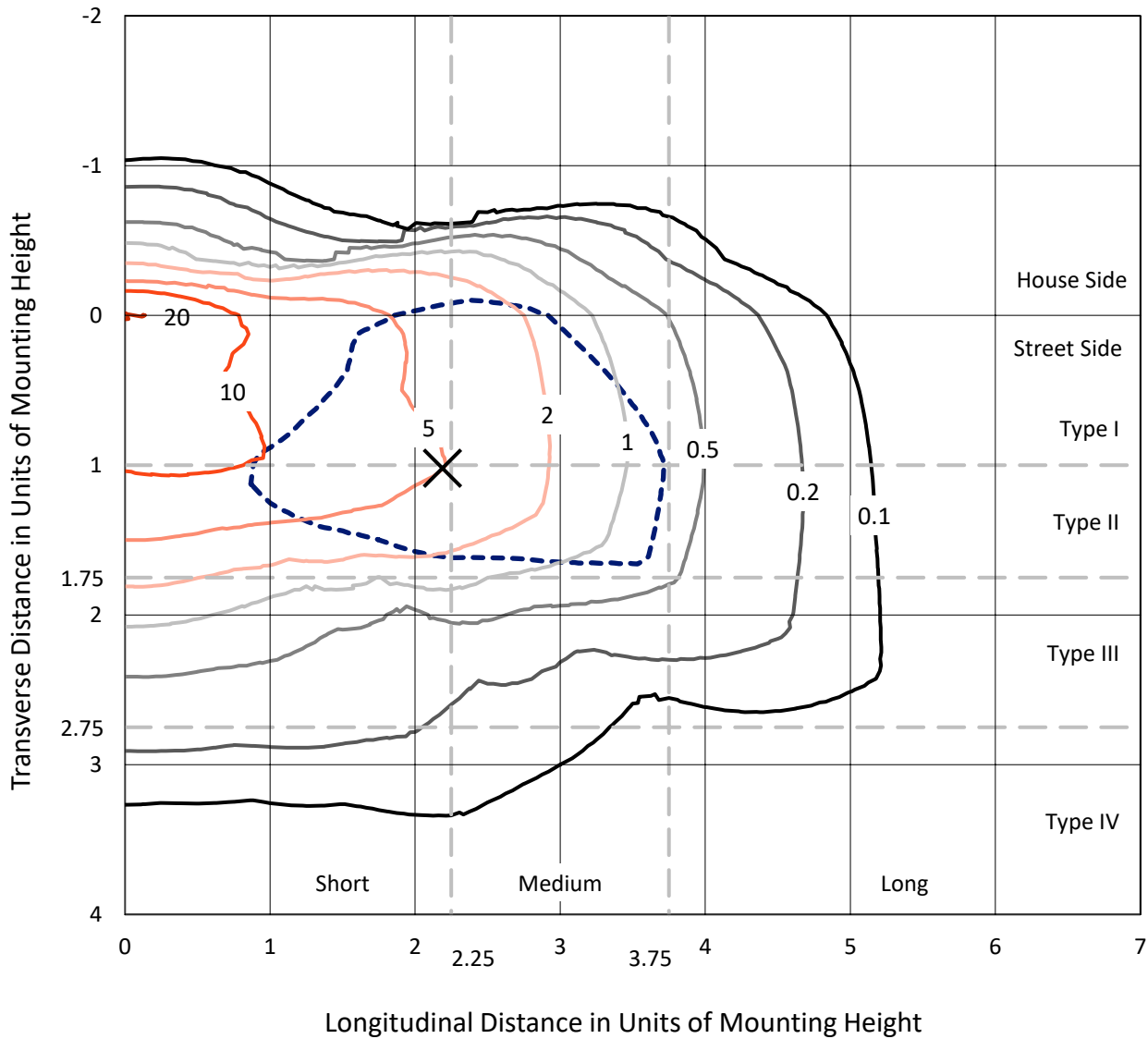
Lumens per Lamp: N/A  
Luminaire Lumens: 8519.9 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

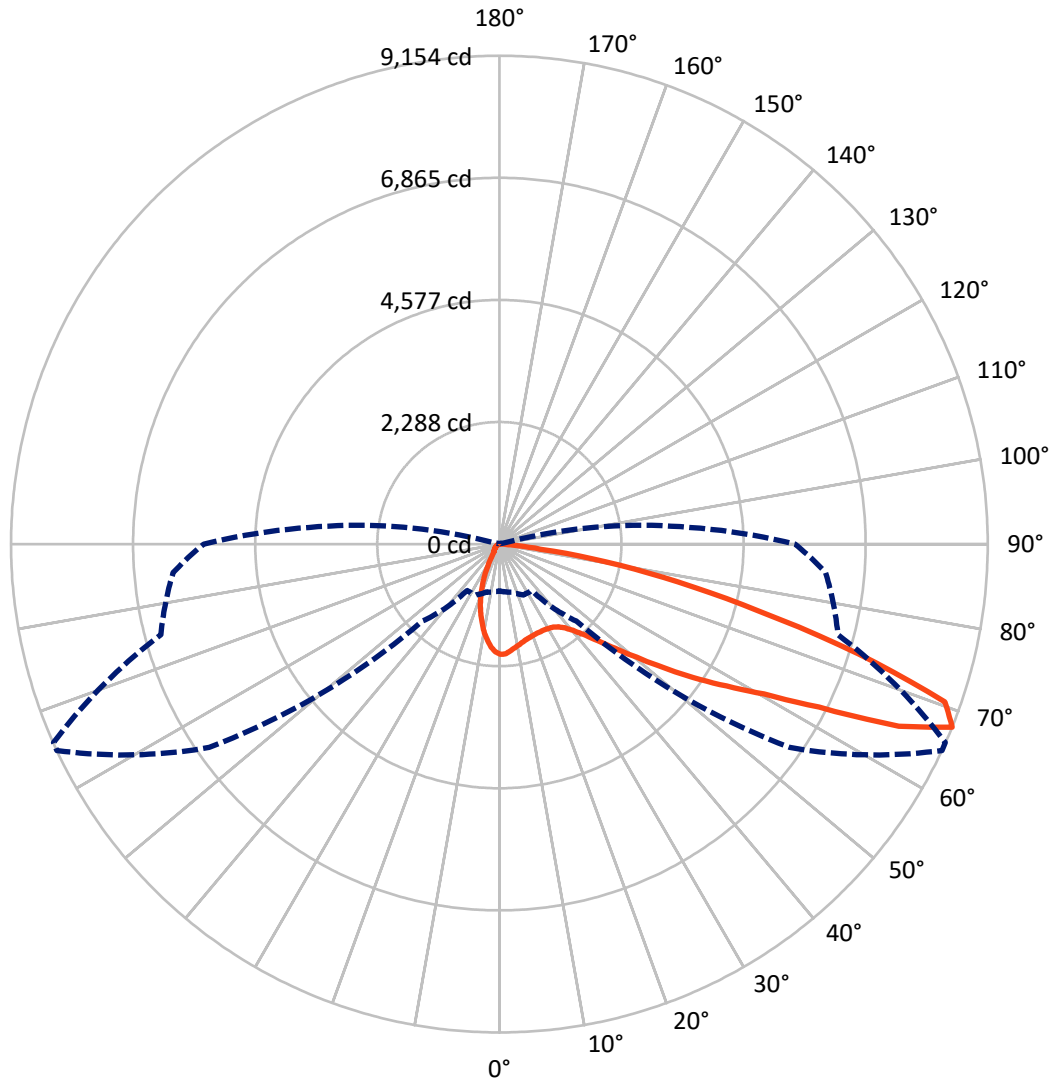
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1063.9	0.0	1063.9
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	7456.0	0.0	7456.0
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	8519.9	0.0	8519.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.6	2.0
10°-20°	385.8	4.5
20°-30°	551.3	6.5
30°-40°	802.0	9.4
40°-50°	1256.1	14.7
50°-60°	1959.6	23.0
60°-70°	2152.5	25.3
70°-80°	1145.6	13.4
80°-90°	95.4	1.1
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°	8519.9	100.0
0°-180°	8519.9	100.0

**Coefficient of Utilization**



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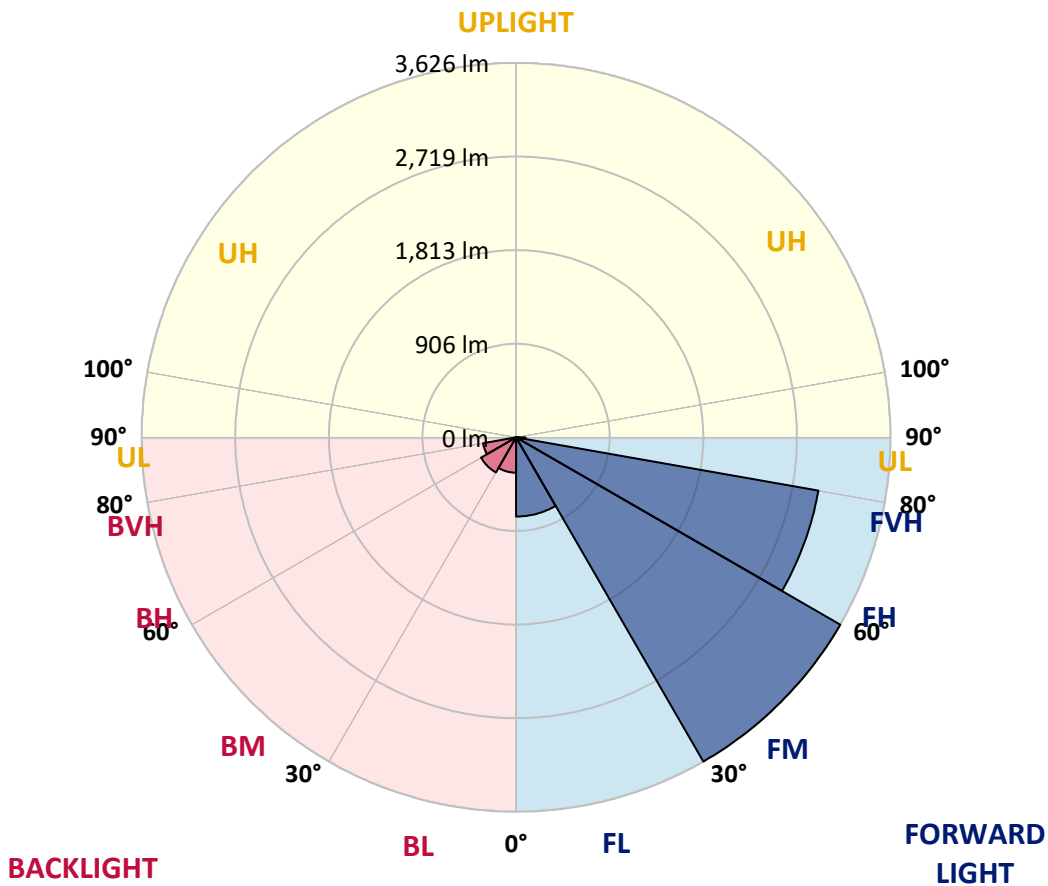
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.7	9.0			
FM (30°-60°)	3625.9	42.6			
FH (60°-80°)	2973.1	34.9			G2/5000
FVH (80°-90°)	90.3	1.1			G1/100
BL (0°-30°)	342.0	4.0	B1/500		
BM (30°-60°)	391.9	4.6	B1/1000		
BH (60°-80°)	325.0	3.8	B1/500		G1/500
BVH (80°-90°)	5.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3
2.5°	1994.7	2000.9	1992.4	2013.2	2017.0	2040.1	2053.2	2062.5	2061.7	2073.3	2073.3
5°	1877.6	1883.7	1879.1	1901.5	1919.2	1955.4	1985.4	2020.1	2021.7	2057.1	2070.2
7.5°	1778.2	1779.0	1779.0	1806.7	1829.8	1874.5	1919.2	1972.3	1978.5	2033.2	2067.9
10°	1696.5	1698.8	1699.6	1731.2	1756.6	1810.6	1867.6	1931.5	1938.4	2012.4	2066.3
12.5°	1640.3	1641.1	1644.1	1677.3	1705.0	1761.2	1819.0	1892.2	1901.5	1988.5	2059.4
15°	1613.3	1611.8	1613.3	1641.1	1668.8	1722.7	1782.0	1860.6	1870.7	1968.5	2060.2
17.5°	1611.8	1609.5	1607.9	1628.7	1646.4	1694.2	1754.3	1839.8	1850.6	1959.3	2068.7
20°	1634.1	1632.6	1624.9	1634.1	1638.0	1677.3	1736.6	1823.7	1834.4	1957.7	2087.1
22.5°	1692.7	1688.8	1677.3	1668.8	1648.0	1671.1	1724.3	1812.1	1824.4	1961.6	2111.0
25°	1779.7	1778.2	1763.6	1742.8	1689.6	1680.3	1725.0	1812.1	1823.7	1966.2	2136.5
27.5°	1910.7	1901.5	1883.0	1846.8	1770.5	1716.6	1740.4	1816.7	1828.3	1972.3	2157.3
30°	2044.0	2043.2	2037.1	2000.1	1886.8	1785.9	1772.8	1829.0	1839.8	1977.7	2176.5
32.5°	2181.9	2184.2	2199.6	2171.1	2047.1	1889.1	1831.4	1854.5	1862.2	1988.5	2193.5
35°	2312.9	2317.5	2358.3	2368.4	2242.0	2045.5	1926.9	1905.3	1906.1	2012.4	2215.8
37.5°	2438.5	2453.9	2519.4	2567.9	2484.7	2235.1	2064.8	1991.6	1985.4	2060.2	2249.7
40°	2581.0	2610.3	2692.7	2775.2	2749.0	2485.5	2252.8	2124.1	2111.0	2148.0	2310.6
42.5°	2738.9	2770.5	2879.9	2995.5	3007.8	2788.3	2487.8	2317.5	2295.2	2295.9	2424.6
45°	2908.4	2950.8	3077.9	3244.4	3319.1	3125.7	2777.5	2578.7	2556.3	2523.2	2608.0
47.5°	3131.1	3168.1	3290.6	3482.4	3625.7	3487.8	3157.3	2914.6	2873.8	2825.2	2893.0
50°	3322.9	3355.3	3460.9	3701.2	3999.4	3954.7	3588.0	3334.5	3295.2	3212.8	3269.0
52.5°	3365.3	3390.7	3487.8	3758.3	4285.2	4544.1	4115.7	3842.2	3814.5	3661.9	3683.5
55°	3175.0	3213.5	3300.6	3601.1	4360.0	5120.4	4800.7	4414.7	4356.9	4113.4	4151.9
57.5°	2694.3	2762.8	2844.5	3235.1	4157.3	5427.0	5757.6	5021.0	4968.6	4548.0	4548.7
60°	1974.7	2030.1	2084.8	2442.3	3676.6	5406.2	6625.9	5702.1	5606.6	4903.1	4890.0
62.5°	1436.1	1464.6	1463.9	1591.0	2524.8	5050.3	7082.0	6728.3	6505.7	5283.0	5208.2
65°	1129.5	1128.7	1161.8	1203.4	1409.9	3898.5	7138.2	8226.9	7986.5	5792.2	5636.6
67.5°	879.1	896.0	929.2	1051.7	1059.4	2040.1	6643.6	9153.7	9149.1	6569.6	6138.2
70°	678.0	701.1	748.1	926.9	978.5	1141.8	4970.9	8860.2	8934.9	6917.1	5783.0
72.5°	435.3	433.8	503.1	748.9	939.9	951.5	2749.0	7038.1	7122.8	6265.3	4675.9
75°	243.5	245.0	284.3	458.4	876.0	895.3	1361.4	5018.7	5085.7	4884.6	3592.6
77.5°	95.5	98.6	133.3	241.2	577.8	799.7	809.0	3422.3	3432.4	3027.1	2203.5
80°	38.5	40.8	67.8	149.5	352.1	538.5	577.8	2016.3	1975.4	1171.9	641.0
82.5°	11.6	12.3	27.0	84.7	184.1	382.9	389.8	773.5	730.4	251.9	163.3
85°	0.8	0.8	6.2	26.2	65.5	96.3	259.6	251.9	223.4	63.2	72.4
87.5°	0.0	0.0	0.8	0.8	1.5	3.1	27.7	46.2	47.0	11.6	32.4
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°	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3	2066.3
2.5°	2073.3	2045.5	2043.2	2021.7	2000.1	1973.1	1941.5	1918.4	1902.2	1873.7	1868.3
5°	2070.2	2033.2	1998.5	1936.9	1868.3	1794.4	1729.7	1669.6	1631.8	1606.4	1595.6
7.5°	2064.0	2017.0	1936.9	1820.6	1705.8	1576.3	1475.4	1383.0	1319.8	1282.8	1266.6
10°	2059.4	1996.2	1866.0	1689.6	1511.6	1332.9	1179.6	1042.4	966.1	906.0	896.0
12.5°	2050.2	1966.2	1775.1	1536.3	1306.7	1069.4	873.7	705.7	589.4	537.0	518.5
15°	2040.9	1934.6	1684.2	1374.5	1083.3	790.5	553.2	391.4	311.3	286.6	285.1
17.5°	2039.4	1906.1	1585.6	1221.2	849.0	517.7	315.1	253.5	236.5	230.4	230.4
20°	2044.0	1882.2	1488.5	1044.7	618.7	315.1	235.0	219.6	209.6	204.2	204.2
22.5°	2048.6	1857.6	1395.3	866.8	410.6	230.4	207.3	194.2	182.6	176.4	173.4
25°	2051.7	1830.6	1292.0	688.0	268.1	200.3	181.8	164.9	151.0	143.3	143.3
27.5°	2050.9	1798.2	1188.0	513.1	208.0	178.0	155.6	137.9	124.0	115.6	116.3
30°	2044.8	1762.8	1080.2	358.3	181.8	155.6	133.3	114.8	100.9	94.0	93.2
32.5°	2040.1	1725.0	955.4	251.9	163.3	136.4	113.3	95.5	84.0	78.6	77.8
35°	2034.8	1688.1	836.7	191.8	147.2	117.9	95.5	80.9	71.7	67.0	67.0
37.5°	2036.3	1649.5	708.0	164.9	131.0	102.5	81.7	69.3	61.6	57.0	56.2
40°	2060.2	1626.4	581.7	149.5	116.3	88.6	70.9	60.1	52.4	47.8	47.0
42.5°	2119.5	1627.2	460.7	137.9	103.2	75.5	61.6	51.6	44.7	39.3	38.5
45°	2238.2	1659.5	353.6	125.6	89.4	65.5	53.2	43.9	37.0	32.4	31.6
47.5°	2432.3	1755.9	268.1	114.8	77.8	57.0	45.5	37.0	30.8	27.0	26.2
50°	2741.3	1930.0	211.1	101.7	65.5	49.3	38.5	30.8	25.4	21.6	20.8
52.5°	3112.6	2191.2	181.1	90.1	56.2	43.1	33.1	25.4	20.8	17.7	16.9
55°	3539.4	2503.2	167.2	78.6	47.8	37.0	27.0	20.8	16.9	14.6	13.1
57.5°	3930.8	2784.4	166.4	67.0	40.8	31.6	22.3	17.7	14.6	11.6	10.8
60°	4312.2	3019.4	156.4	55.5	35.4	26.2	19.3	14.6	12.3	10.0	9.2
62.5°	4658.1	3210.5	131.0	44.7	30.0	21.6	16.2	13.1	10.8	8.5	8.5
65°	5092.7	3453.9	100.2	36.2	24.7	17.7	13.9	11.6	10.0	7.7	7.7
67.5°	5541.8	3582.6	71.7	30.0	20.0	15.4	12.3	10.8	8.5	6.9	6.9
70°	5019.5	3027.1	51.6	24.7	16.9	13.1	10.8	10.0	8.5	6.9	6.2
72.5°	3920.0	2182.7	38.5	19.3	14.6	12.3	10.0	9.2	7.7	6.2	6.2
75°	2906.9	1272.8	29.3	15.4	11.6	10.0	10.0	9.2	7.7	6.2	5.4
77.5°	1580.2	443.8	22.3	12.3	9.2	7.7	8.5	8.5	6.9	5.4	4.6
80°	418.4	121.7	15.4	9.2	7.7	6.2	6.2	7.7	6.2	4.6	4.6
82.5°	121.7	35.4	10.8	7.7	6.2	5.4	5.4	5.4	4.6	3.9	3.1
85°	59.3	13.1	7.7	6.2	5.4	4.6	3.9	3.9	3.1	2.3	2.3
87.5°	26.2	5.4	6.2	5.4	5.4	3.9	3.1	2.3	2.3	1.5	0.8
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)