

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: P633027

Luminaire Tested: GWS-SA2D-830-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9114.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

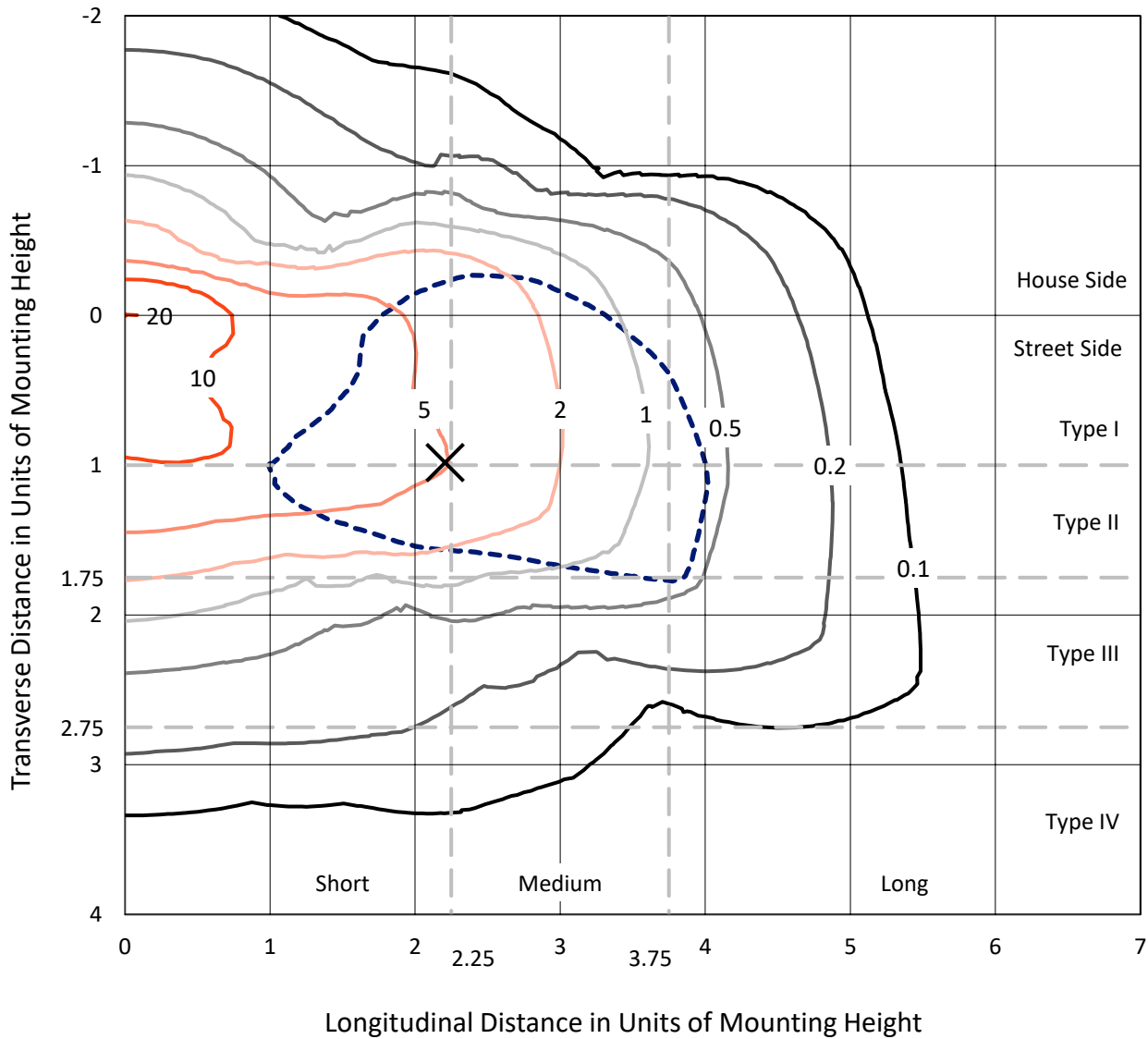
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

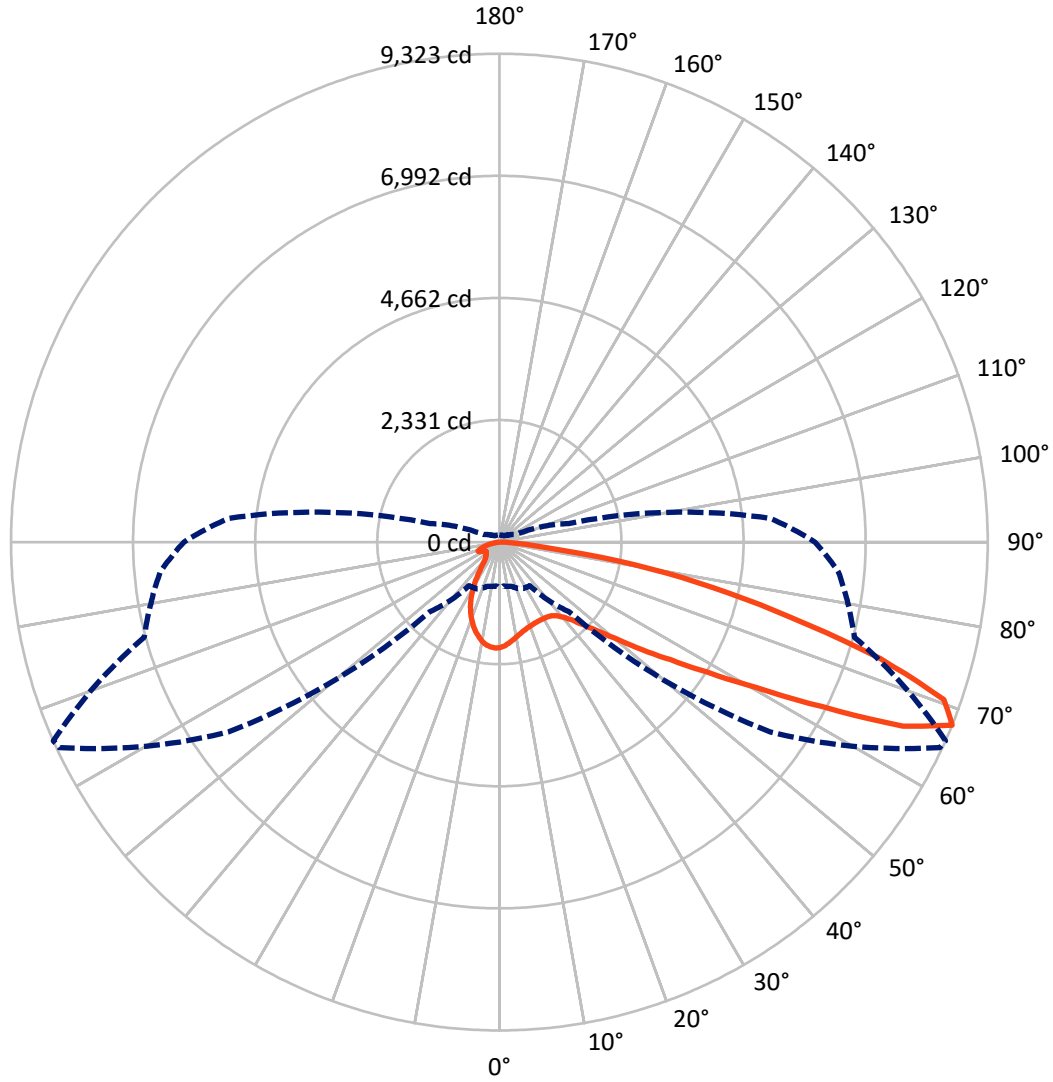
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1849.6	0.0	1849.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7265.2	0.0	7265.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	9114.8	0.0	9114.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	1.9
10°-20°	434.4	4.8
20°-30°	597.1	6.6
30°-40°	816.4	9.0
40°-50°	1237.0	13.6
50°-60°	1923.0	21.1
60°-70°	2341.2	25.7
70°-80°	1426.1	15.6
80°-90°	162.9	1.8
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°	9114.8	100.0
0°-180°	9114.8	100.0

Coefficient of Utilization



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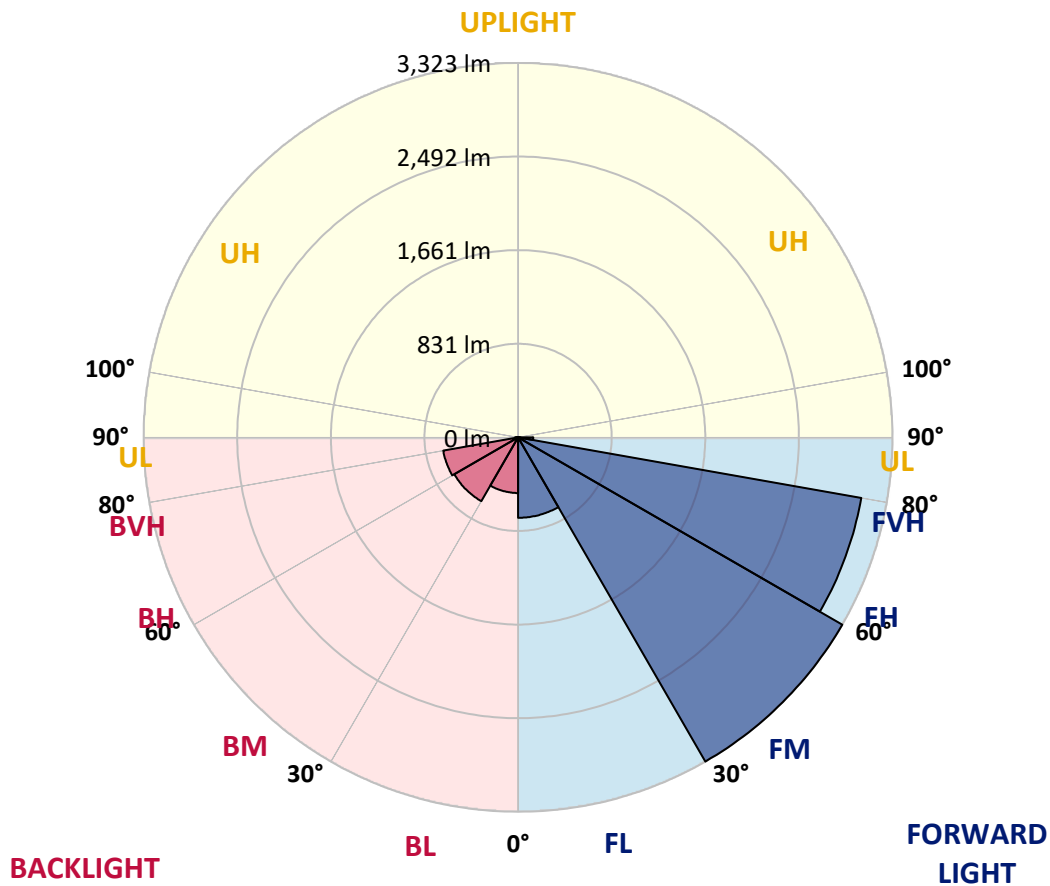
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	714.2	7.8			
FM (30°-60°)	3322.7	36.5			
FH (60°-80°)	3092.9	33.9			G2/5000
FVH (80°-90°)	135.4	1.5			G2/225
BL (0°-30°)	494.1	5.4	B1/500		
BM (30°-60°)	653.6	7.2	B1/1000		
BH (60°-80°)	674.4	7.4	B2/1000		G2/1000
BVH (80°-90°)	27.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1
2.5°	1886.4	1893.1	1889.1	1914.4	1915.7	1947.6	1965.6	1980.9	1982.2	2002.1	2015.4
5°	1757.4	1761.4	1761.4	1785.4	1801.3	1843.9	1885.1	1929.0	1932.3	1980.2	2016.8
7.5°	1653.0	1657.0	1654.4	1686.3	1706.9	1754.1	1806.6	1873.8	1880.5	1957.6	2021.4
10°	1571.3	1569.9	1576.6	1605.8	1632.4	1689.0	1747.5	1823.9	1833.9	1931.7	2026.7
12.5°	1515.4	1516.7	1520.7	1551.3	1579.9	1635.8	1696.3	1779.4	1790.0	1901.7	2024.1
15°	1488.8	1486.1	1489.5	1517.4	1544.7	1593.9	1656.4	1742.2	1752.8	1875.1	2024.8
17.5°	1482.8	1480.8	1480.2	1500.1	1520.7	1566.6	1626.5	1713.6	1724.9	1857.9	2028.7
20°	1501.4	1498.8	1491.5	1500.1	1508.8	1547.3	1605.2	1692.9	1705.6	1846.5	2036.7
22.5°	1552.6	1548.0	1536.7	1526.0	1514.7	1538.0	1591.9	1677.7	1690.3	1839.2	2044.7
25°	1630.4	1626.5	1614.5	1590.5	1549.3	1545.3	1589.2	1671.0	1683.6	1833.9	2048.0
27.5°	1737.5	1731.5	1719.5	1685.0	1617.8	1572.6	1599.2	1670.3	1682.3	1827.9	2044.7
30°	1864.5	1860.5	1853.9	1812.0	1722.2	1630.4	1621.8	1675.7	1685.0	1824.6	2038.0
32.5°	1993.5	1989.5	1994.8	1974.9	1864.5	1726.2	1671.0	1690.3	1696.9	1823.9	2032.1
35°	2107.2	2111.9	2150.4	2153.8	2045.4	1855.9	1748.8	1724.2	1725.5	1837.2	2034.7
37.5°	2226.2	2244.2	2294.7	2337.9	2247.5	2027.4	1864.5	1788.0	1786.7	1871.1	2051.3
40°	2383.8	2391.8	2456.3	2537.4	2480.9	2262.8	2028.7	1892.4	1883.1	1940.3	2095.9
42.5°	2537.4	2556.7	2659.8	2752.9	2734.2	2528.1	2235.5	2048.7	2032.1	2062.7	2187.7
45°	2732.9	2751.5	2867.2	2986.9	3020.8	2828.0	2500.2	2270.8	2254.2	2246.8	2355.9
47.5°	2928.4	2947.7	3051.4	3224.3	3343.3	3203.0	2844.6	2564.0	2536.8	2508.2	2609.9
50°	3060.1	3082.7	3181.8	3389.2	3668.5	3671.1	3252.9	2948.4	2913.8	2868.6	2967.6
52.5°	3055.4	3070.0	3164.5	3403.8	3902.5	4209.1	3799.5	3437.8	3409.8	3311.4	3397.9
55°	2815.4	2837.3	2932.4	3231.6	3927.8	4719.1	4602.7	4014.9	3965.1	3788.8	3883.9
57.5°	2333.3	2351.9	2447.7	2816.7	3703.7	4980.4	5622.8	4750.4	4681.9	4308.8	4418.5
60°	1761.4	1738.8	1784.0	2107.2	3167.8	4987.1	6523.1	5747.8	5633.4	4864.7	4956.5
62.5°	1321.9	1299.3	1309.3	1400.4	2147.8	4584.1	7036.4	7112.2	6923.4	5492.4	5474.5
65°	1044.6	1032.0	1060.6	1123.1	1252.1	3491.0	7040.4	8587.7	8468.7	6219.9	6005.8
67.5°	851.1	843.1	872.4	988.1	1015.4	1875.8	6313.0	9276.6	9323.2	7016.5	6498.5
70°	685.6	673.6	719.5	871.7	944.2	1135.1	4522.3	8925.5	9000.7	7491.2	6359.5
72.5°	473.4	474.1	497.4	706.2	911.6	980.1	2558.0	7432.1	7595.0	7061.0	5590.8
75°	319.2	321.8	328.5	466.1	839.8	950.9	1363.1	5626.7	5741.8	5836.2	4621.4
77.5°	192.8	194.2	209.5	281.9	579.2	887.7	923.6	4078.8	4169.2	3847.4	2864.6
80°	111.7	116.4	130.3	188.8	391.0	666.9	714.8	2500.9	2603.3	1710.2	910.3
82.5°	49.2	52.5	71.1	109.7	228.1	567.2	557.9	988.1	973.5	476.8	315.8
85°	8.6	10.6	15.3	34.6	83.8	299.2	432.9	436.2	410.3	180.9	131.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	65.2	117.0	116.4	51.2	45.2
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°	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1	2014.1
2.5°	2024.1	2006.1	2022.1	2024.1	2020.8	2018.1	1998.2	1980.9	1978.9	1960.3	1960.3
5°	2031.4	2014.8	2022.8	2007.5	1983.5	1958.9	1916.4	1887.1	1873.8	1849.9	1849.9
7.5°	2041.4	2024.1	2014.8	1976.9	1921.0	1867.2	1798.7	1741.5	1718.2	1684.3	1683.0
10°	2050.7	2028.7	1996.8	1923.0	1833.9	1748.1	1648.4	1567.3	1512.1	1471.5	1471.5
12.5°	2050.0	2021.4	1958.3	1849.2	1726.2	1601.8	1468.9	1346.5	1273.4	1210.2	1206.2
15°	2048.7	2009.5	1909.1	1763.4	1600.5	1428.3	1247.4	1087.8	979.5	917.6	912.3
17.5°	2047.4	1994.2	1853.9	1665.7	1447.6	1212.9	974.1	801.3	710.8	672.9	674.3
20°	2047.4	1976.9	1794.7	1553.3	1271.4	954.9	714.8	589.1	566.5	568.5	570.5
22.5°	2041.4	1955.6	1728.9	1431.0	1075.2	702.2	527.3	484.7	496.7	515.3	518.0
25°	2027.4	1920.4	1652.4	1295.3	841.8	511.3	430.2	422.2	444.2	467.5	474.1
27.5°	2005.5	1879.8	1566.6	1136.4	619.7	410.9	378.4	377.7	395.0	412.3	418.2
30°	1982.2	1834.6	1476.2	959.5	448.8	357.7	345.1	345.1	353.7	364.4	363.1
32.5°	1954.9	1788.7	1379.1	775.3	365.7	327.8	323.8	321.8	323.2	327.2	327.2
35°	1931.7	1748.1	1279.4	580.5	327.8	311.2	307.2	302.5	300.6	297.9	299.2
37.5°	1923.0	1716.2	1176.3	437.5	309.2	299.2	292.6	285.9	281.3	279.9	279.3
40°	1937.0	1702.9	1073.2	360.4	295.9	286.6	279.3	270.6	266.6	266.6	266.6
42.5°	1991.5	1712.9	968.2	325.8	286.6	276.0	265.3	257.3	256.0	257.3	258.0
45°	2091.2	1751.5	859.1	308.5	278.6	265.3	252.7	246.7	246.7	248.0	248.0
47.5°	2269.5	1852.5	751.4	297.9	270.6	256.7	243.4	237.4	236.7	238.0	238.0
50°	2578.0	2034.7	654.3	290.6	264.6	250.0	236.7	228.7	226.7	226.1	226.1
52.5°	2967.0	2350.6	592.5	285.3	257.3	242.7	229.4	218.8	214.8	212.8	212.8
55°	3437.1	2771.5	592.5	281.3	248.0	234.1	218.8	208.1	202.1	199.5	199.5
57.5°	3969.7	3261.5	694.9	277.9	240.7	224.1	207.5	196.8	190.2	186.2	186.2
60°	4511.6	3779.5	948.2	273.3	234.1	211.5	194.8	184.9	176.2	171.6	170.9
62.5°	5073.5	4350.1	1282.0	276.0	229.4	199.5	181.5	170.2	162.9	158.3	157.6
65°	5588.2	4893.3	1573.9	296.6	230.1	188.8	166.2	156.3	150.3	144.3	143.6
67.5°	6025.0	5193.2	1369.1	338.5	244.0	176.2	150.9	141.0	135.6	131.7	131.0
70°	5719.2	4735.7	776.7	364.4	263.3	162.9	133.7	127.0	121.7	119.0	118.4
72.5°	4890.7	4009.6	519.3	321.8	240.0	145.6	117.7	112.4	108.4	105.1	104.4
75°	3961.7	3179.8	397.0	264.0	186.8	118.4	101.1	97.1	93.1	89.8	89.1
77.5°	2343.9	1837.2	292.6	208.8	131.7	92.4	83.8	80.5	76.5	73.8	73.1
80°	748.1	638.3	185.5	143.6	87.1	71.1	64.5	61.8	57.9	54.5	53.9
82.5°	285.3	246.7	98.4	73.1	57.9	48.5	43.2	40.6	37.9	34.6	33.9
85°	126.3	118.4	54.5	39.2	31.3	23.9	21.3	19.9	16.6	14.0	13.3
87.5°	44.6	44.6	23.3	11.3	6.6	3.3	2.0	0.7	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)