

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: P632728

Luminaire Tested: GWS-SA2D-730-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-730-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10808.9 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
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

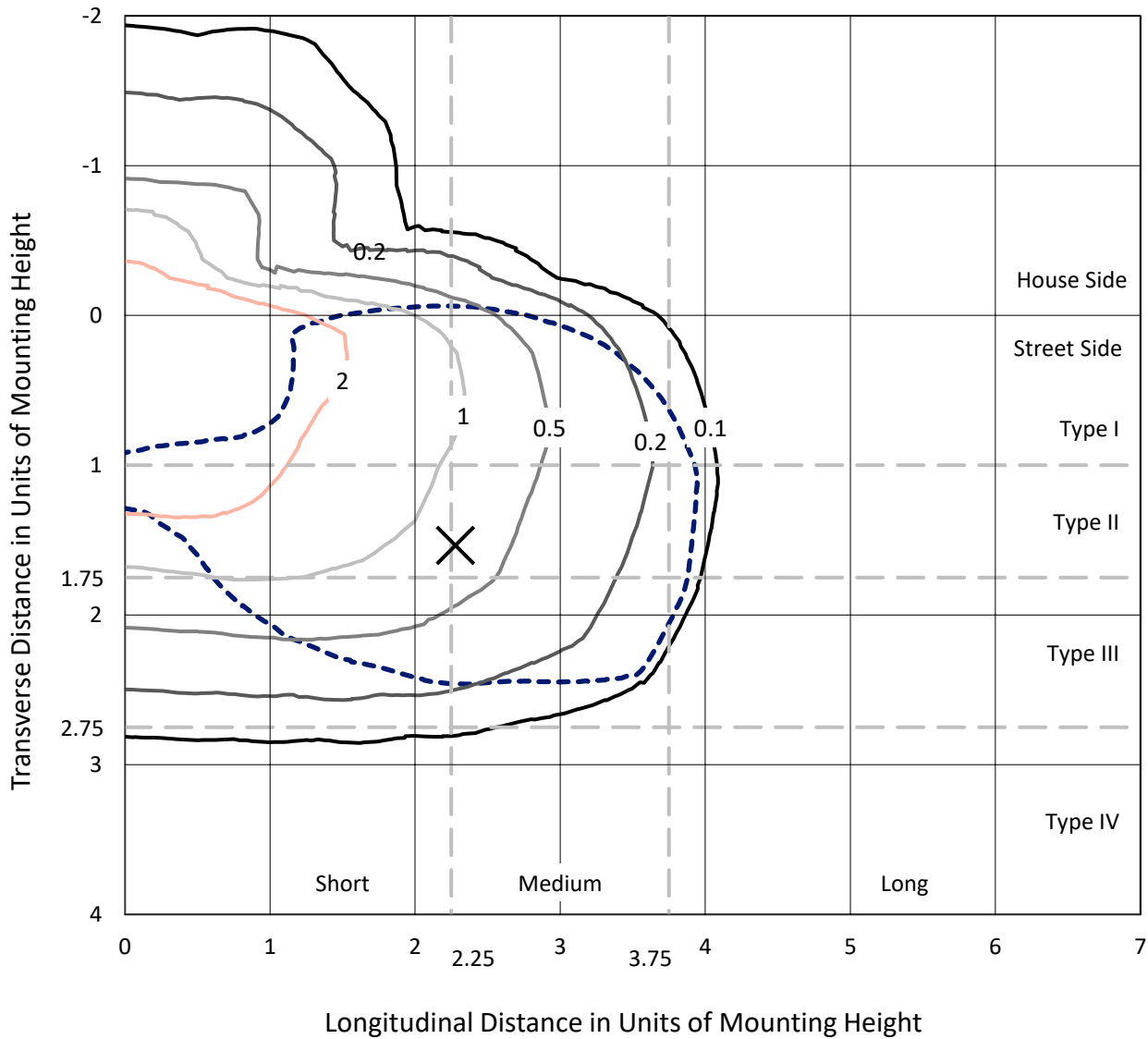


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Iso-Footcandle Lines of Horizontal Illumination

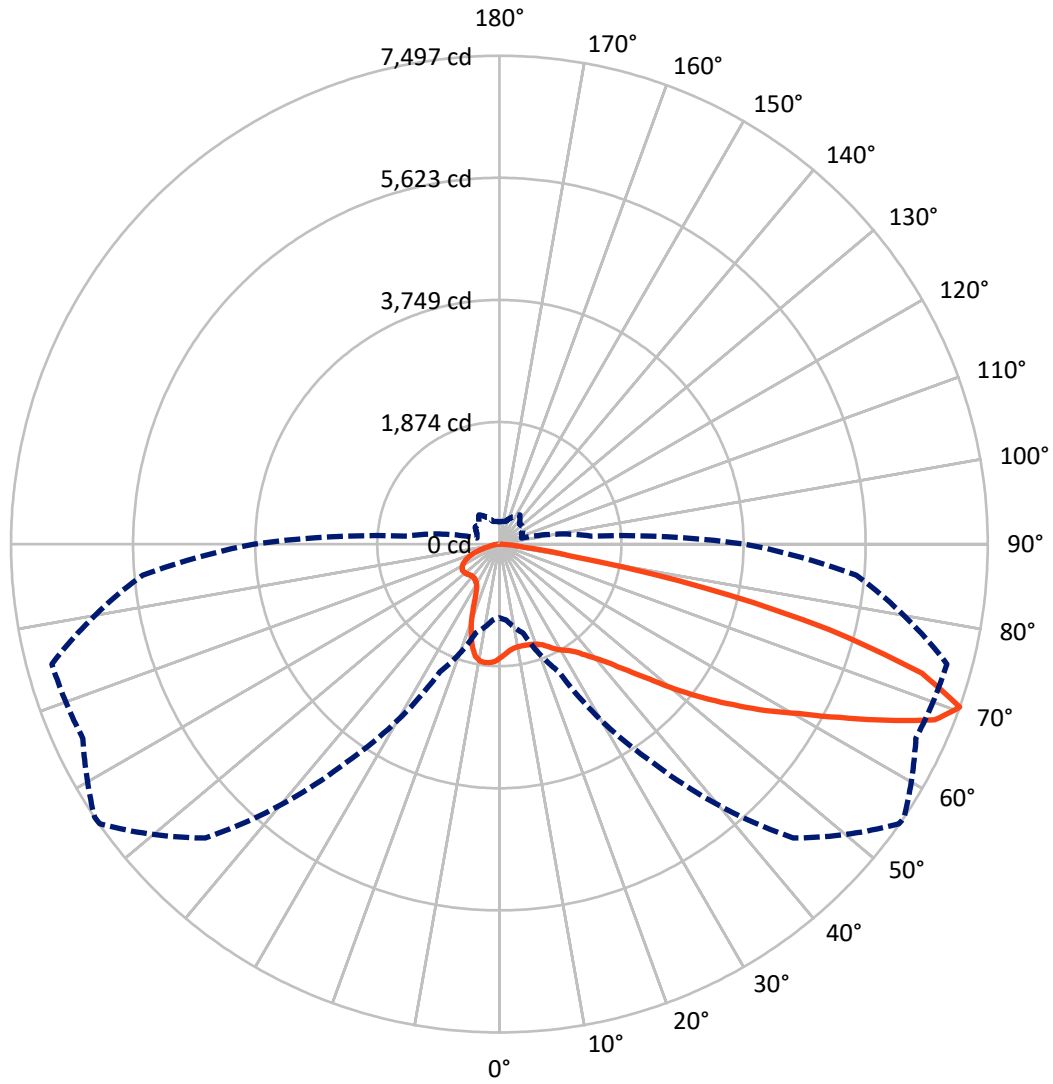
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2078.0	0.0	2078.0
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	8730.9	0.0	8730.9
	% Fixture	80.8	0.0	80.8
Total	Lumens	10808.9	0.0	10808.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	1.5
10°-20°	437.5	4.0
20°-30°	723.2	6.7
30°-40°	1081.4	10.0
40°-50°	1609.2	14.9
50°-60°	2287.8	21.2
60°-70°	2833.5	26.2
70°-80°	1564.6	14.5
80°-90°	110.2	1.0
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°	10808.9	100.0
0°-180°	10808.9	100.0

Coefficient of Utilization



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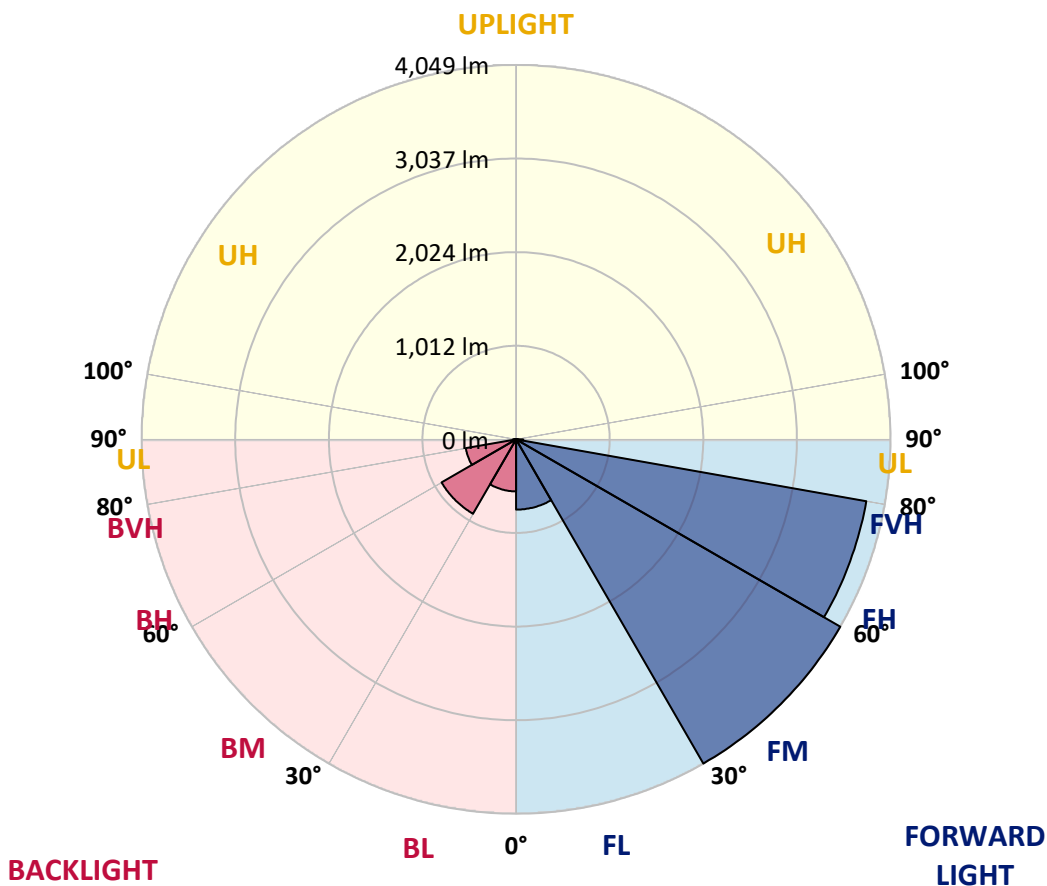
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.6	7.0			
FM (30°-60°)	4048.9	37.5			
FH (60°-80°)	3845.8	35.6			G2/5000
FVH (80°-90°)	76.6	0.7			G1/100
BL (0°-30°)	562.5	5.2	B2/1000		
BM (30°-60°)	929.5	8.6	B1/1000		
BH (60°-80°)	552.3	5.1	B2/1000		G2/1000
BVH (80°-90°)	33.6	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7
2.5°	1632.7	1623.5	1634.2	1639.5	1653.3	1673.1	1690.6	1691.4	1700.5	1722.6	1744.0
5°	1558.7	1554.2	1557.2	1573.2	1587.7	1612.9	1639.5	1641.8	1667.7	1711.2	1753.9
7.5°	1501.6	1495.5	1506.9	1527.5	1545.8	1574.0	1609.0	1612.1	1648.7	1714.2	1779.8
10°	1419.3	1414.7	1436.0	1463.5	1503.1	1549.6	1596.1	1599.9	1647.9	1734.1	1825.5
12.5°	1383.4	1383.4	1392.6	1418.5	1461.9	1523.7	1593.8	1599.9	1660.1	1764.5	1884.2
15°	1439.1	1442.9	1435.3	1433.7	1451.3	1510.0	1596.9	1606.0	1683.0	1795.8	1942.1
17.5°	1551.1	1554.9	1535.1	1503.9	1486.3	1522.9	1608.3	1618.2	1707.4	1830.1	2004.6
20°	1708.1	1712.7	1669.3	1621.2	1561.0	1560.3	1630.4	1639.5	1738.6	1867.4	2071.0
22.5°	1891.8	1894.9	1840.0	1763.8	1671.5	1629.6	1668.5	1677.6	1779.0	1919.3	2142.6
25°	2104.5	2113.6	2047.3	1936.8	1811.8	1724.9	1731.8	1742.4	1851.4	1988.6	2227.2
27.5°	2331.6	2343.1	2266.8	2144.9	1972.6	1830.1	1813.3	1822.5	1928.4	2031.3	2272.2
30°	2564.1	2572.5	2496.3	2356.8	2145.7	1949.0	1881.9	1887.3	1962.0	2051.9	2317.9
32.5°	2822.5	2815.6	2742.5	2581.6	2345.4	2091.5	1945.9	1944.4	1999.3	2093.1	2383.5
35°	3064.9	3074.8	2997.1	2819.5	2564.9	2267.6	2042.0	2035.9	2078.6	2160.1	2475.7
37.5°	3358.3	3355.3	3262.3	3070.2	2785.2	2436.1	2176.9	2166.2	2181.5	2264.6	2604.5
40°	3568.0	3589.3	3529.1	3350.0	3042.8	2643.4	2334.7	2311.1	2314.9	2393.4	2776.8
42.5°	3739.5	3759.3	3765.4	3651.0	3337.8	2899.5	2531.3	2507.7	2510.0	2621.3	2988.7
45°	3871.3	3898.0	3984.1	3950.6	3670.1	3195.2	2797.3	2773.0	2774.5	2898.0	3244.8
47.5°	3925.4	3954.4	4128.9	4209.0	4023.0	3548.9	3128.2	3092.3	3097.7	3234.1	3537.5
50°	3907.9	3946.8	4183.1	4407.9	4318.7	3908.7	3523.7	3498.6	3478.0	3676.2	3855.3
52.5°	3757.0	3799.7	4177.7	4534.4	4560.4	4248.6	3932.3	3917.8	3913.2	4145.7	4210.5
55°	3312.6	3384.3	3994.0	4568.0	4749.4	4568.7	4375.1	4350.8	4374.4	4648.8	4569.5
57.5°	3066.4	3119.8	3634.3	4530.6	4904.1	4873.6	4817.2	4819.5	4846.2	5195.3	5004.7
60°	2926.2	2988.7	3434.6	4428.5	5052.8	5244.1	5279.9	5279.9	5327.9	5784.5	5446.8
62.5°	2740.2	2803.4	3247.8	4231.8	5190.0	5680.1	5861.5	5859.2	5878.2	6416.4	5879.0
65°	2362.9	2421.6	2872.8	3921.6	5257.0	6160.3	6522.3	6515.5	6477.3	6978.9	6164.8
67.5°	1715.8	1771.4	2200.5	3331.7	5015.4	6547.5	7203.0	7206.0	6978.1	7333.3	6180.1
70°	1131.1	1169.2	1414.7	2163.9	4078.6	6380.5	7488.1	7497.2	7055.1	7112.3	5500.2
72.5°	705.8	732.5	883.4	1290.4	2410.1	5050.5	6756.3	6781.5	6347.0	6250.2	4519.2
75°	468.8	487.1	587.7	752.3	1115.1	2733.3	5135.8	5216.6	5087.1	4899.6	3148.7
77.5°	282.0	297.3	374.3	477.9	493.9	1067.9	2997.8	3206.7	3225.0	2558.0	1318.6
80°	128.8	146.3	206.6	272.9	263.0	372.0	1057.2	1106.0	1304.9	812.5	416.2
82.5°	76.2	83.8	137.2	135.7	112.0	180.6	380.3	390.3	331.6	297.3	177.6
85°	30.5	35.8	57.9	51.1	41.2	58.7	143.3	150.2	144.1	129.6	65.6
87.5°	0.0	0.0	0.0	0.0	0.8	1.5	13.0	13.7	19.8	35.8	19.8
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°	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7	1744.7
2.5°	1757.7	1753.1	1776.0	1793.5	1801.1	1808.7	1801.9	1799.6	1799.6	1784.4	1776.7
5°	1776.7	1779.0	1810.3	1824.8	1824.8	1818.7	1800.4	1787.4	1782.8	1763.0	1757.7
7.5°	1812.6	1822.5	1851.4	1850.7	1829.3	1795.8	1750.1	1715.0	1683.0	1669.3	1660.9
10°	1871.3	1884.2	1904.0	1872.0	1812.6	1724.1	1627.3	1551.1	1505.4	1468.8	1468.8
12.5°	1938.3	1950.5	1946.7	1872.8	1750.1	1584.7	1445.2	1357.5	1293.5	1260.0	1260.0
15°	2005.4	2015.3	1974.2	1837.7	1619.7	1399.4	1247.0	1141.8	1086.2	1054.9	1054.9
17.5°	2073.2	2072.5	1985.6	1756.9	1449.7	1194.4	1045.0	963.4	944.4	939.1	938.3
20°	2138.8	2121.3	1971.1	1622.0	1252.3	987.8	893.3	898.7	926.9	939.1	940.6
22.5°	2212.7	2169.3	1928.4	1449.7	1028.2	844.5	850.6	894.8	936.0	954.3	956.6
25°	2288.2	2210.4	1856.8	1247.8	840.7	791.9	839.2	888.7	935.2	958.9	961.2
27.5°	2318.7	2210.4	1734.8	1013.8	740.9	769.8	821.7	869.7	918.5	945.9	951.3
30°	2343.8	2191.4	1564.1	802.6	699.7	748.5	793.5	837.7	885.7	919.2	925.3
32.5°	2378.9	2174.6	1357.5	674.6	680.7	727.9	759.2	796.5	840.0	862.1	859.8
35°	2420.1	2148.7	1108.3	613.6	664.7	710.4	732.5	754.6	734.8	734.0	736.3
37.5°	2478.7	2125.8	891.0	586.1	654.0	698.2	716.5	669.2	641.8	630.4	625.8
40°	2563.3	2116.7	702.8	570.1	652.5	697.4	684.5	611.3	574.0	534.3	533.6
42.5°	2670.1	2109.8	580.8	562.5	657.8	715.0	640.3	573.2	496.2	478.7	477.2
45°	2807.3	2099.2	519.8	561.0	670.8	728.7	635.7	520.6	468.0	460.4	460.4
47.5°	2972.7	2082.4	492.4	561.0	685.2	722.6	622.0	509.2	455.0	463.4	468.8
50°	3162.5	2061.0	477.9	559.5	699.7	722.6	593.0	506.9	452.0	495.4	513.0
52.5°	3365.2	2036.7	468.0	553.4	709.6	723.3	594.5	514.5	455.0	503.1	517.5
55°	3589.3	2032.8	454.3	540.4	712.7	703.5	598.3	531.3	459.6	455.8	456.6
57.5°	3872.1	2078.6	444.4	521.4	700.5	663.1	606.0	543.5	454.3	455.0	460.4
60°	4167.8	2164.7	452.8	503.1	675.3	625.0	611.3	537.4	428.4	416.2	417.7
62.5°	4419.4	2230.3	459.6	494.7	638.7	591.5	606.0	523.6	413.9	410.8	417.7
65°	4524.5	2176.1	442.9	477.2	585.4	550.3	594.5	506.1	401.7	390.3	391.0
67.5°	4407.9	1922.3	410.1	438.3	525.2	497.7	576.2	483.2	384.9	371.2	368.2
70°	3765.4	1412.4	353.7	376.5	452.0	436.0	548.0	453.5	358.2	348.3	341.5
72.5°	3034.4	1000.0	293.5	299.6	354.4	367.4	499.3	416.2	327.8	299.6	289.6
75°	2112.1	628.1	244.7	238.6	256.1	280.5	389.5	345.3	282.8	253.1	243.9
77.5°	908.6	322.4	191.3	188.3	170.7	194.4	298.8	288.1	237.1	202.8	197.4
80°	304.1	186.7	138.0	132.6	113.6	136.4	210.4	230.2	186.0	150.2	141.0
82.5°	152.4	108.2	87.7	79.3	76.2	86.1	124.2	143.3	128.8	103.7	87.7
85°	74.7	61.7	48.0	47.3	39.6	37.3	51.8	61.0	57.9	42.7	40.4
87.5°	27.4	24.4	15.2	12.2	7.6	5.3	3.0	3.0	2.3	2.3	2.3
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)