

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: P636800

Luminaire Tested: GWS-SA4B-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13980.9 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

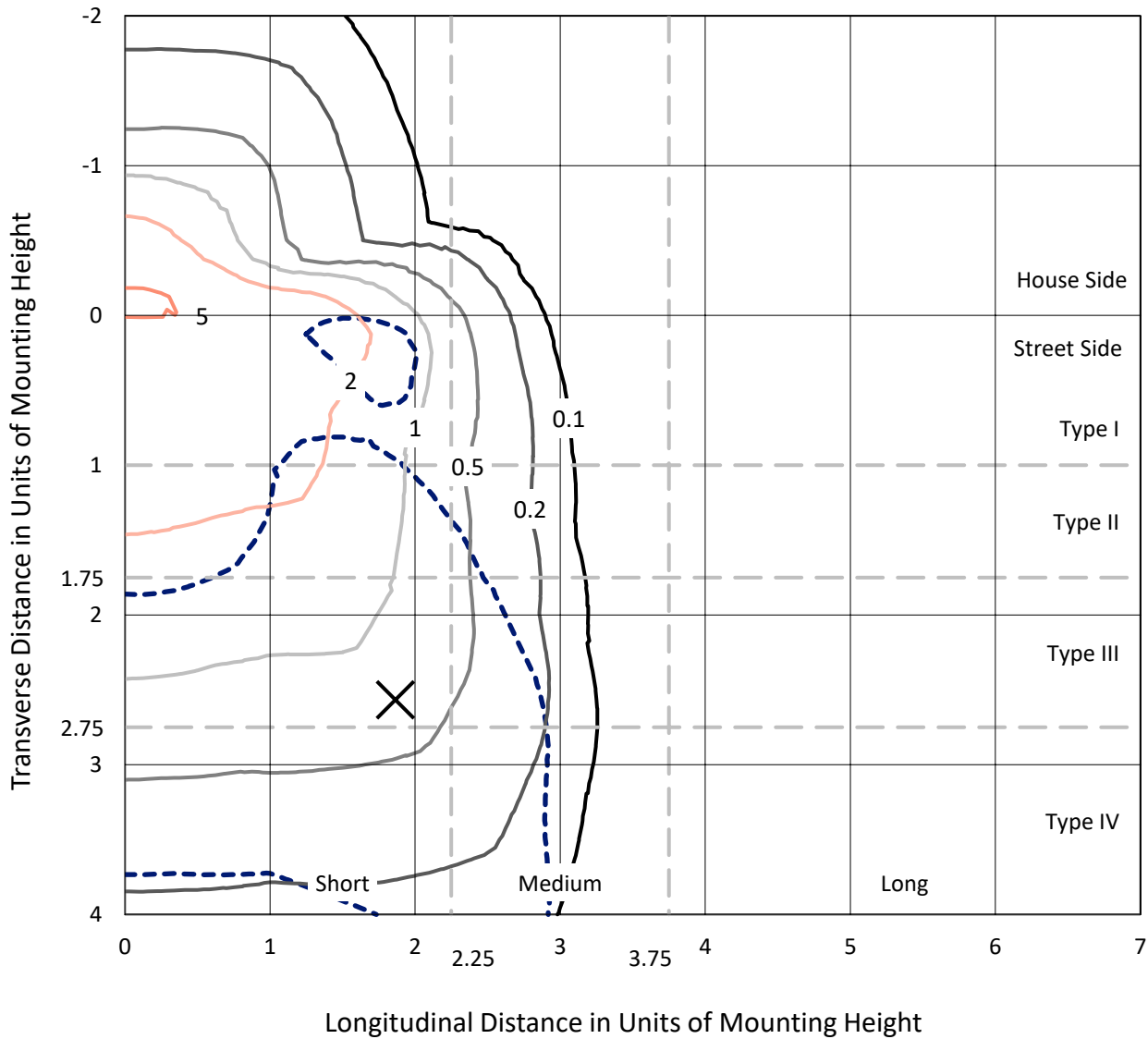
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

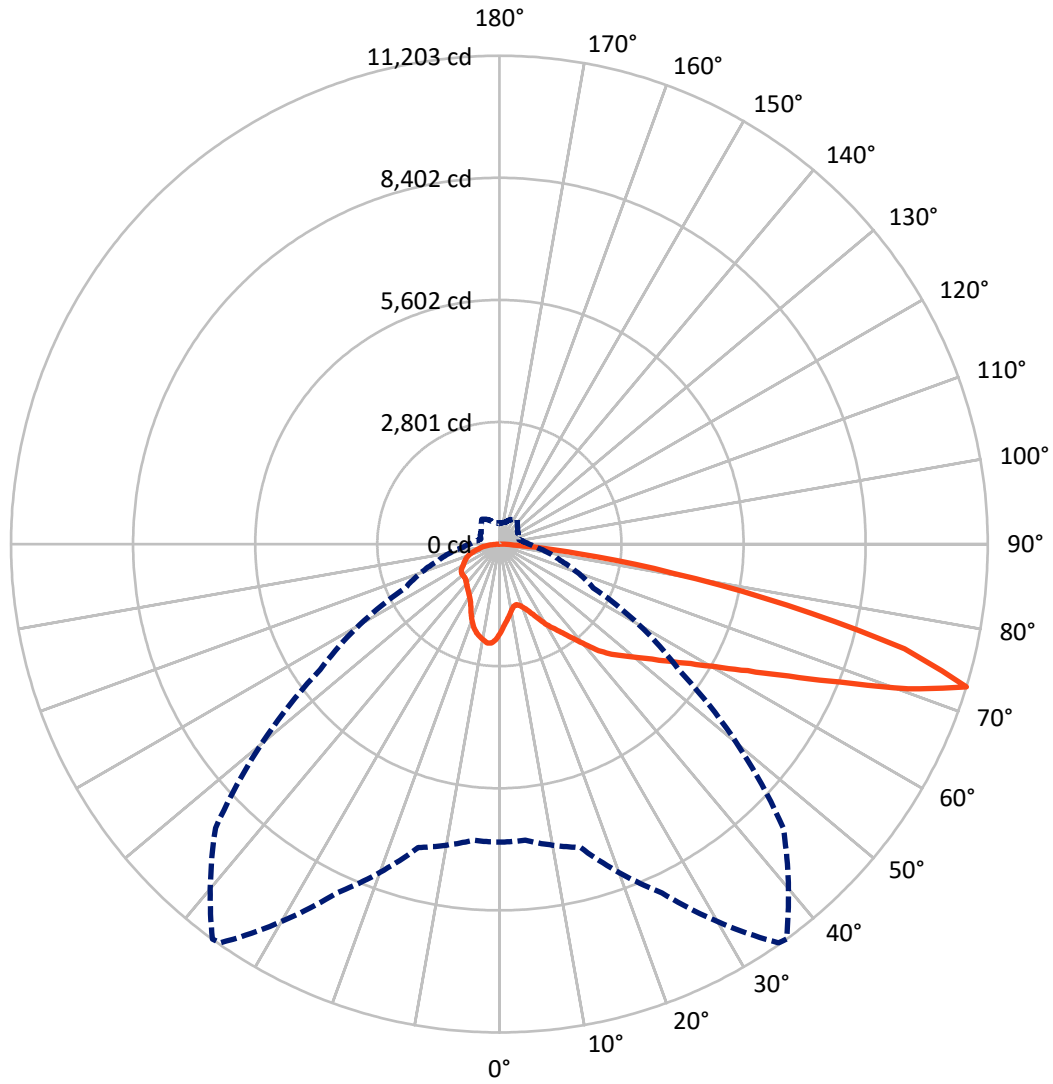
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3223.2	0.0	3223.2
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	10757.7	0.0	10757.7
	% Fixture	76.9	0.0	76.9
Total	Lumens	13980.9	0.0	13980.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	1.4
10°-20°	539.6	3.9
20°-30°	893.7	6.4
30°-40°	1338.4	9.6
40°-50°	1952.6	14.0
50°-60°	2779.1	19.9
60°-70°	3511.2	25.1
70°-80°	2502.0	17.9
80°-90°	273.1	2.0
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°	13980.9	100.0
0°-180°	13980.9	100.0

Coefficient of Utilization



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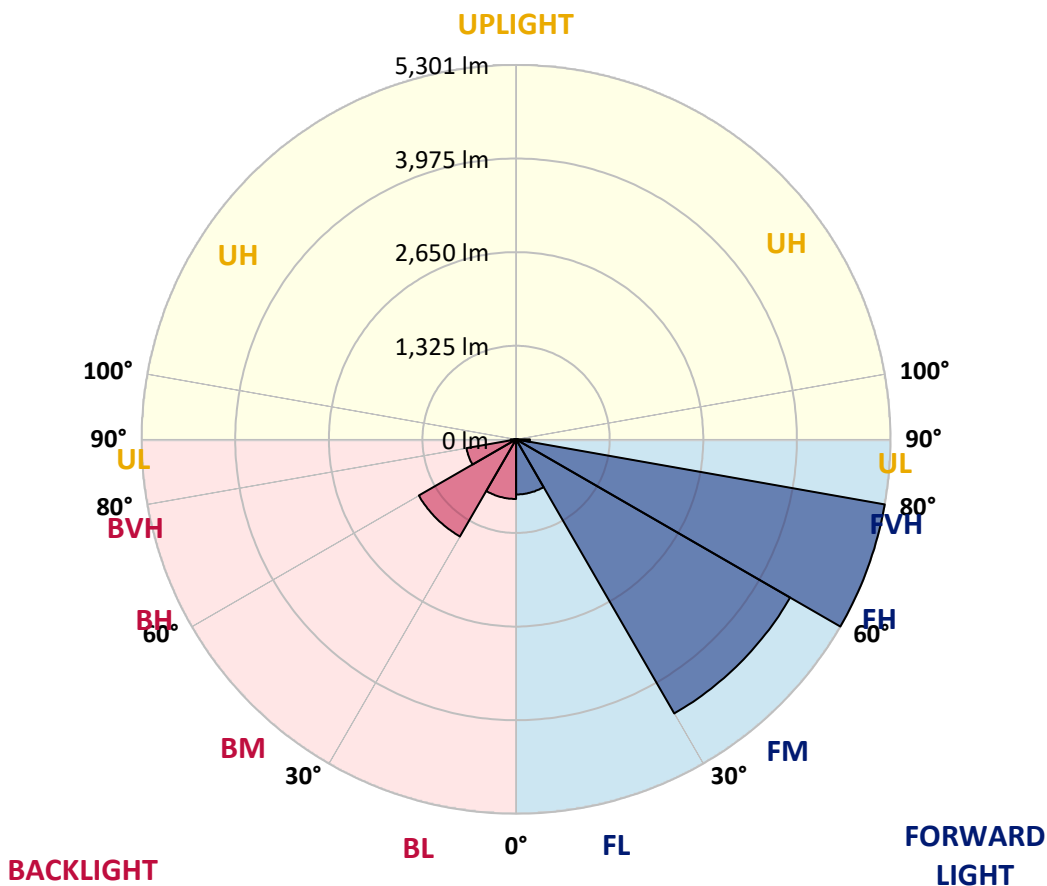
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	780.5	5.6			
FM (30°-60°)	4480.5	32.0			
FH (60°-80°)	5300.6	37.9			G3/7500
FVH (80°-90°)	196.0	1.4			G2/225
BL (0°-30°)	844.1	6.0	B2/1000		
BM (30°-60°)	1589.5	11.4	B2/2500		
BH (60°-80°)	712.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	77.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2
2.5°	1866.7	1863.5	1857.3	1876.0	1894.7	1892.6	1918.5	1943.4	1970.4	1998.4	2035.8
5°	1717.2	1715.2	1710.0	1738.0	1766.0	1765.0	1807.5	1848.0	1903.0	1963.2	2037.9
7.5°	1567.8	1562.6	1569.9	1605.2	1644.6	1648.8	1706.9	1773.3	1853.2	1943.4	2049.3
10°	1436.1	1435.0	1438.1	1477.6	1536.7	1540.9	1615.6	1707.9	1813.7	1934.1	2075.2
12.5°	1401.8	1399.7	1391.4	1411.1	1455.8	1462.0	1544.0	1657.1	1786.8	1939.3	2110.5
15°	1457.8	1452.7	1423.6	1414.3	1436.1	1441.2	1510.8	1627.0	1771.2	1948.6	2155.1
17.5°	1554.3	1551.2	1496.2	1457.8	1472.4	1476.5	1528.4	1621.8	1767.1	1967.3	2210.1
20°	1695.5	1682.0	1595.8	1537.7	1537.7	1544.0	1575.1	1644.6	1772.2	1990.1	2272.4
22.5°	1882.2	1855.2	1733.8	1655.0	1634.2	1642.5	1656.0	1701.7	1794.0	2028.5	2350.2
25°	2091.8	2066.9	1922.7	1811.7	1782.6	1785.7	1774.3	1782.6	1841.8	2081.4	2446.7
27.5°	2314.9	2298.3	2144.7	2003.6	1958.0	1958.0	1917.5	1897.8	1908.2	2141.6	2554.6
30°	2514.1	2491.3	2361.6	2207.0	2146.8	2146.8	2070.0	2027.5	2002.6	2215.3	2698.8
32.5°	2618.9	2605.4	2519.3	2401.0	2327.4	2315.9	2249.5	2199.7	2141.6	2324.2	2893.9
35°	2755.9	2752.8	2700.9	2608.6	2515.2	2498.6	2452.9	2413.5	2312.8	2460.2	3153.3
37.5°	2928.1	2922.9	2914.6	2859.7	2747.6	2744.5	2704.0	2656.3	2525.5	2656.3	3467.7
40°	3121.1	3111.8	3101.4	3100.4	3032.9	3021.5	3018.4	2964.5	2781.8	2892.9	3795.6
42.5°	3386.8	3354.6	3257.1	3300.6	3350.4	3340.1	3379.5	3298.6	3101.4	3174.0	4105.8
45°	3713.6	3634.7	3441.8	3454.2	3579.8	3600.5	3737.5	3717.8	3453.2	3498.8	4432.7
47.5°	3909.7	3841.2	3661.7	3651.4	3808.0	3834.0	4131.8	4169.1	3831.9	3890.0	4836.3
50°	4070.5	4022.8	3875.5	3890.0	4056.0	4082.0	4522.9	4602.8	4188.8	4290.5	5305.3
52.5°	4264.6	4196.1	4082.0	4150.4	4353.8	4384.9	4957.7	5043.8	4510.5	4730.5	5790.9
55°	4373.5	4345.5	4347.6	4452.4	4707.6	4750.2	5413.2	5398.7	4805.2	5107.1	6156.1
57.5°	4624.6	4614.3	4709.7	4749.1	5120.6	5175.6	5868.7	5744.2	5072.9	5398.7	6331.5
60°	5067.7	5041.7	5124.8	5184.9	5631.1	5708.9	6377.2	6082.5	5254.5	5615.5	6272.4
62.5°	5690.3	5658.1	5661.2	5756.7	6314.9	6396.9	6942.6	6364.7	5310.5	5648.7	5897.8
65°	6464.3	6417.6	6364.7	6494.4	7222.8	7291.3	7558.0	6570.1	5176.6	5329.2	5115.4
67.5°	7280.9	7242.5	7180.3	7452.1	8398.4	8439.9	8248.0	6552.5	4752.3	4474.2	3588.1
70°	7328.6	7338.0	7632.7	8616.3	9933.0	9943.4	8900.6	6197.6	3848.5	2900.1	1787.8
72.5°	6836.8	6821.2	7205.2	8829.0	11167.8	11203.1	9208.8	5021.0	2378.2	1446.4	838.4
75°	5553.3	5580.3	5983.9	7725.0	9572.0	9603.1	7507.1	2960.3	1130.0	707.7	536.4
77.5°	2390.7	2541.1	3337.0	5442.3	6855.5	6759.0	3869.2	1199.5	602.9	504.3	410.9
80°	690.0	749.2	1189.1	2587.8	4107.9	4035.3	1531.5	449.3	420.2	378.7	294.7
82.5°	223.1	247.0	435.8	1030.3	1840.7	1838.6	581.1	265.6	275.0	257.3	189.9
85°	62.3	71.6	133.9	312.3	569.6	558.2	168.1	125.6	146.3	148.4	94.4
87.5°	0.0	0.0	1.0	2.1	2.1	2.1	4.2	18.7	42.5	54.0	38.4
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°	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2
2.5°	2058.6	2055.5	2098.0	2131.3	2162.4	2183.1	2189.4	2193.5	2201.8	2206.0	2201.8
5°	2073.1	2088.7	2159.3	2211.1	2252.7	2277.6	2278.6	2276.5	2282.7	2277.6	2274.4
7.5°	2104.3	2134.4	2223.6	2278.6	2305.6	2306.6	2281.7	2252.7	2238.1	2225.7	2221.5
10°	2145.8	2190.4	2287.9	2324.2	2315.9	2277.6	2222.6	2176.9	2151.0	2132.3	2128.1
12.5°	2202.8	2252.7	2345.0	2344.0	2292.1	2223.6	2159.3	2104.3	2066.9	2045.1	2037.9
15°	2256.8	2320.1	2386.5	2337.7	2255.8	2172.8	2089.7	2016.1	1966.3	1932.0	1925.8
17.5°	2323.2	2390.7	2416.6	2318.0	2210.1	2103.2	1992.2	1895.7	1828.3	1787.8	1784.7
20°	2400.0	2460.2	2431.1	2283.8	2151.0	2010.9	1860.4	1752.5	1679.9	1640.5	1643.6
22.5°	2489.2	2532.8	2435.3	2237.1	2069.0	1880.1	1712.1	1608.3	1559.5	1538.8	1539.8
25°	2584.7	2612.7	2428.0	2173.8	1943.4	1720.4	1559.5	1511.8	1507.6	1502.5	1504.5
27.5°	2697.8	2691.6	2406.2	2084.6	1774.3	1534.6	1452.7	1465.1	1481.7	1479.6	1481.7
30°	2849.3	2790.1	2378.2	1961.1	1573.0	1379.0	1389.4	1424.6	1446.4	1448.5	1454.7
32.5°	3022.6	2899.1	2333.6	1793.0	1381.1	1291.8	1330.2	1372.8	1398.7	1403.9	1412.2
35°	3229.0	3023.6	2254.7	1583.4	1243.1	1239.9	1275.2	1304.3	1332.3	1334.4	1334.4
37.5°	3466.7	3148.1	2129.2	1352.0	1158.0	1195.3	1228.5	1234.8	1242.0	1235.8	1238.9
40°	3684.6	3268.5	1950.7	1141.4	1088.5	1155.9	1183.9	1163.2	1140.3	1124.8	1127.9
42.5°	3867.2	3350.4	1714.1	994.0	1017.9	1120.6	1142.4	1099.9	1055.2	1026.2	1030.3
45°	4072.6	3426.2	1436.1	894.4	957.7	1095.7	1110.2	1055.2	998.2	954.6	948.4
47.5°	4355.9	3580.8	1189.1	824.9	915.2	1082.2	1106.1	1031.4	956.7	891.3	884.0
50°	4705.6	3799.7	982.6	779.2	895.5	1075.0	1105.1	1005.4	916.2	839.4	834.2
52.5°	5087.4	4013.5	830.1	744.0	875.7	1053.2	1099.9	976.4	873.7	790.7	784.4
55°	5341.6	4097.5	727.4	710.8	843.6	1018.9	1079.1	948.4	809.3	733.6	724.3
57.5°	5416.3	3989.6	655.8	680.7	802.1	971.2	1039.7	889.2	769.9	709.7	702.5
60°	5287.7	3717.8	611.2	655.8	756.4	910.0	971.2	855.0	738.8	684.8	679.6
62.5°	4924.5	3298.6	576.9	629.8	709.7	845.7	927.6	813.5	704.5	662.0	654.7
65°	4194.0	2705.0	548.9	602.9	665.1	784.4	879.9	772.0	667.2	635.0	626.7
67.5°	2933.3	1899.9	518.8	570.7	620.5	725.3	830.1	733.6	628.8	604.9	596.6
70°	1434.0	1007.5	482.5	533.3	572.8	665.1	780.3	686.9	577.9	564.5	553.0
72.5°	682.7	563.4	439.9	482.5	507.4	585.2	697.3	619.5	517.8	488.7	469.0
75°	457.6	400.5	383.9	422.3	428.5	490.8	597.7	534.4	456.5	423.3	406.7
77.5°	346.6	306.1	322.7	356.9	344.5	403.6	491.8	476.3	411.9	381.8	373.5
80°	243.8	223.1	256.3	277.0	267.7	343.4	443.1	407.8	339.3	306.1	299.9
82.5°	153.6	149.4	188.8	192.0	195.1	271.9	364.2	320.6	263.6	216.9	201.3
85°	76.8	85.1	113.1	113.1	112.1	140.1	207.5	180.5	142.2	113.1	110.0
87.5°	25.9	36.3	48.8	39.4	30.1	23.9	27.0	33.2	35.3	34.2	34.2
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)