

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: P633445

Luminaire Tested: GWS-SA2E-760-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633445
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-SA2E-760-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14219.1 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

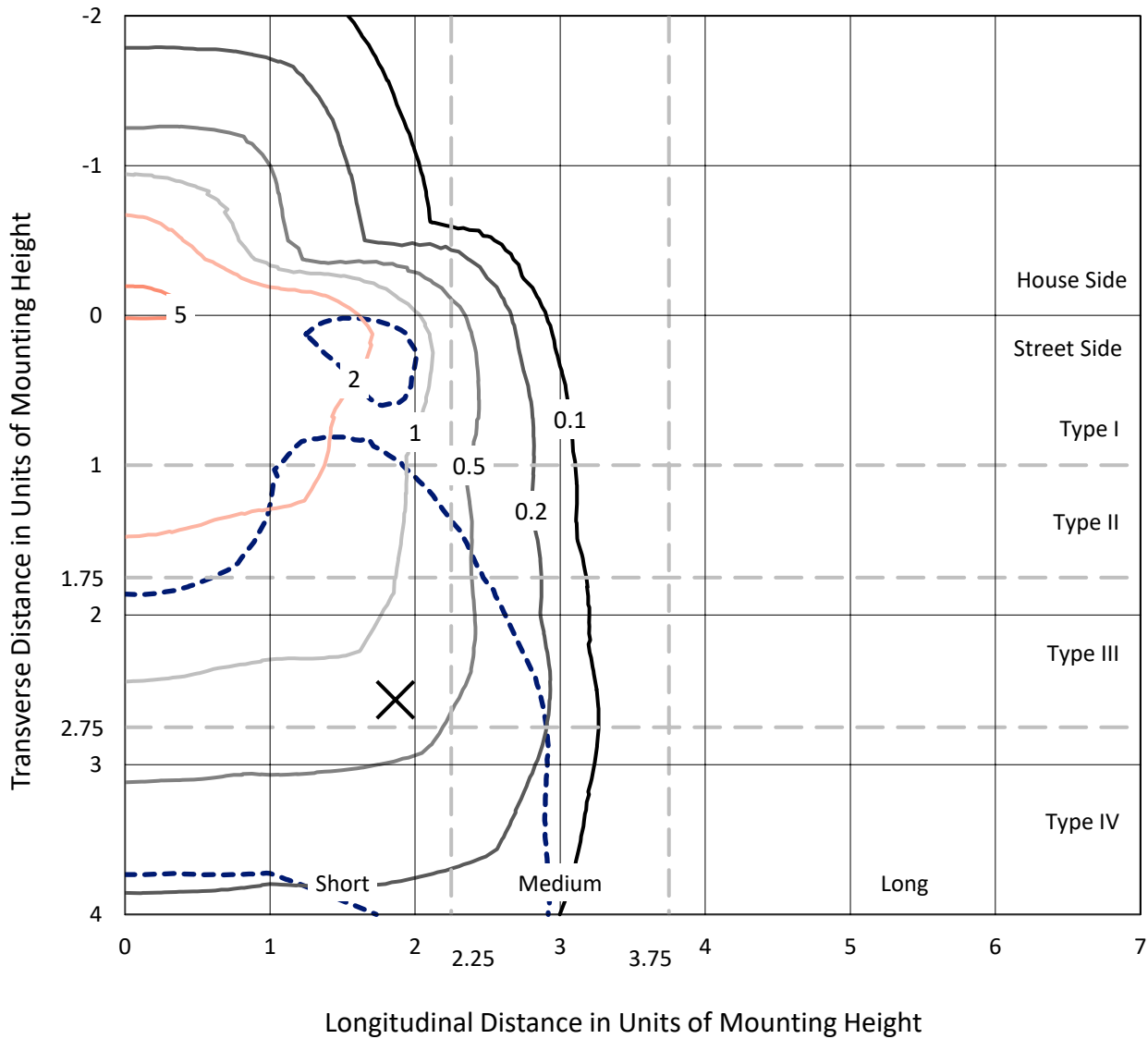
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

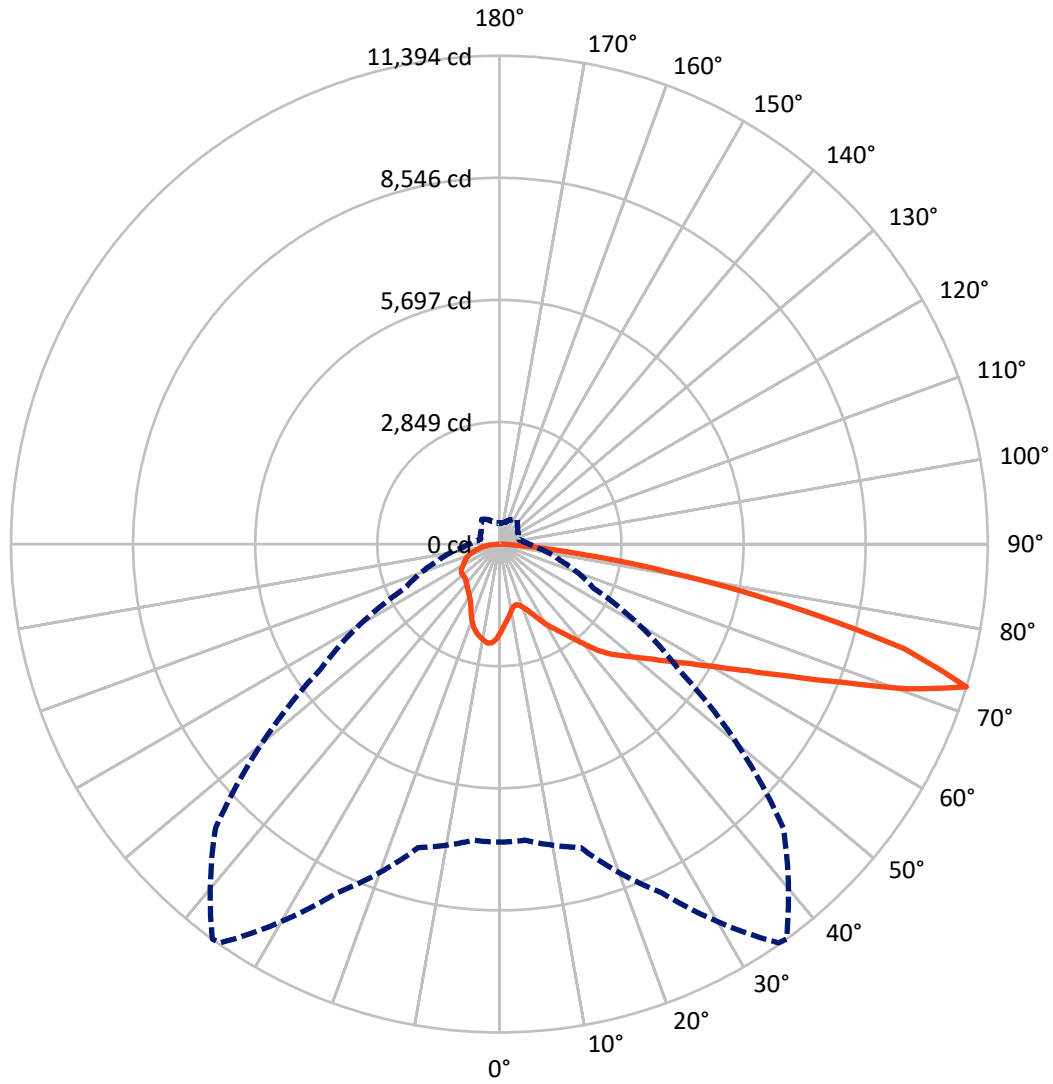
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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	3278.1	0.0	3278.1
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	10941.0	0.0	10941.0
	% Fixture	76.9	0.0	76.9
Total	Lumens	14219.1	0.0	14219.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	1.4
10°-20°	548.8	3.9
20°-30°	908.9	6.4
30°-40°	1361.2	9.6
40°-50°	1985.8	14.0
50°-60°	2826.4	19.9
60°-70°	3571.0	25.1
70°-80°	2544.6	17.9
80°-90°	277.8	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°	14219.1	100.0
0°-180°	14219.1	100.0

Coefficient of Utilization



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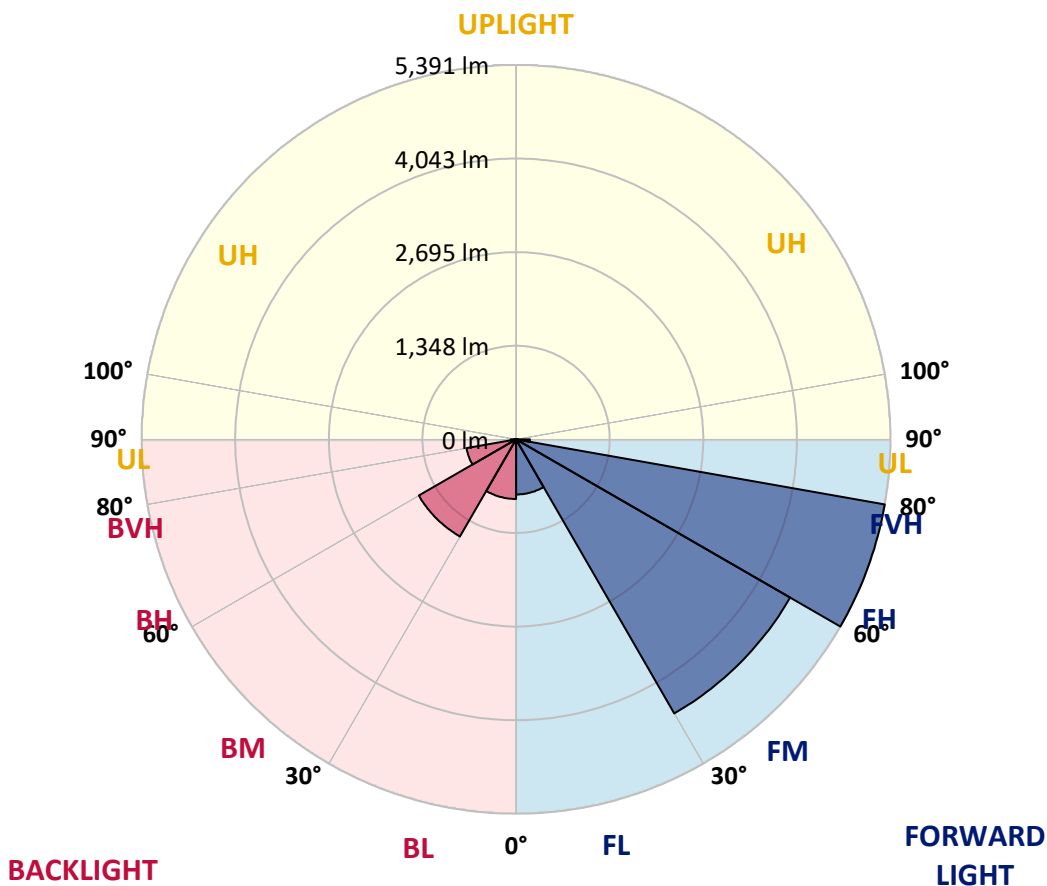
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.8	5.6			
FM (30°-60°)	4556.9	32.0			
FH (60°-80°)	5390.9	37.9			G3/7500
FVH (80°-90°)	199.4	1.4			G2/225
BL (0°-30°)	858.4	6.0	B2/1000		
BM (30°-60°)	1616.6	11.4	B2/2500		
BH (60°-80°)	724.7	5.1	B2/1000		G2/1000
BVH (80°-90°)	78.4	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°	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0
2.5°	1898.5	1895.3	1889.0	1908.0	1927.0	1924.8	1951.2	1976.6	2004.0	2032.5	2070.5
5°	1746.5	1744.4	1739.1	1767.6	1796.1	1795.0	1838.3	1879.5	1935.4	1996.6	2072.6
7.5°	1594.5	1589.3	1596.7	1632.5	1672.6	1676.9	1735.9	1803.5	1884.7	1976.6	2084.2
10°	1460.5	1459.5	1462.6	1502.7	1562.9	1567.1	1643.1	1737.0	1844.6	1967.1	2110.6
12.5°	1425.7	1423.6	1415.1	1435.2	1480.6	1486.9	1570.3	1685.3	1817.2	1972.3	2146.5
15°	1482.7	1477.4	1447.9	1438.4	1460.5	1465.8	1536.5	1654.7	1801.4	1981.8	2191.8
17.5°	1580.8	1577.7	1521.7	1482.7	1497.5	1501.7	1554.4	1649.4	1797.2	2000.8	2247.8
20°	1724.3	1710.6	1623.0	1563.9	1563.9	1570.3	1601.9	1672.6	1802.4	2024.0	2311.1
22.5°	1914.3	1886.9	1763.4	1683.2	1662.1	1670.5	1684.2	1730.7	1824.6	2063.1	2390.2
25°	2127.5	2102.1	1955.4	1842.5	1813.0	1816.2	1804.5	1813.0	1873.1	2116.9	2488.4
27.5°	2354.3	2337.5	2181.3	2037.8	1991.3	1991.3	1950.2	1930.1	1940.7	2178.1	2598.1
30°	2557.0	2533.7	2401.8	2244.6	2183.4	2183.4	2105.3	2062.0	2036.7	2253.0	2744.8
32.5°	2663.5	2649.8	2562.2	2441.9	2367.0	2355.4	2287.9	2237.2	2178.1	2363.8	2943.2
35°	2802.8	2799.7	2746.9	2653.0	2558.0	2541.1	2494.7	2454.6	2352.2	2502.1	3207.0
37.5°	2978.0	2972.7	2964.3	2908.4	2794.4	2791.2	2750.1	2701.5	2568.6	2701.5	3526.8
40°	3174.3	3164.8	3154.3	3153.2	3084.6	3073.0	3069.8	3015.0	2829.2	2942.1	3860.2
42.5°	3444.5	3411.7	3312.6	3356.9	3407.5	3397.0	3437.1	3354.8	3154.3	3228.1	4175.8
45°	3776.9	3696.7	3500.4	3513.1	3640.7	3661.9	3801.1	3781.1	3512.0	3558.4	4508.2
47.5°	3976.3	3906.7	3724.1	3713.6	3872.9	3899.3	4202.2	4240.1	3897.2	3956.3	4918.7
50°	4139.9	4091.4	3941.5	3956.3	4125.1	4151.5	4600.0	4681.3	4260.2	4363.6	5395.7
52.5°	4337.2	4267.6	4151.5	4221.2	4428.0	4459.6	5042.2	5129.8	4587.3	4811.1	5889.6
55°	4448.0	4419.5	4421.7	4528.2	4787.8	4831.1	5505.4	5490.7	4887.0	5194.1	6261.0
57.5°	4703.4	4692.9	4790.0	4830.1	5207.8	5263.8	5968.7	5842.1	5159.3	5490.7	6439.4
60°	5154.0	5127.6	5212.1	5273.3	5727.1	5806.2	6485.8	6186.1	5344.0	5711.2	6379.2
62.5°	5787.2	5754.5	5757.7	5854.7	6422.5	6505.9	7060.9	6473.1	5401.0	5745.0	5998.3
65°	6574.4	6527.0	6473.1	6605.1	7345.9	7415.5	7686.7	6682.1	5264.8	5420.0	5202.6
67.5°	7405.0	7365.9	7302.6	7579.1	8541.5	8583.7	8388.5	6664.1	4833.2	4550.4	3649.2
70°	7453.5	7463.0	7762.7	8763.1	10102.3	10112.8	9052.3	6303.2	3914.1	2949.5	1818.3
72.5°	6953.3	6937.5	7327.9	8979.5	11358.1	11394.0	9365.7	5106.5	2418.7	1471.1	852.7
75°	5647.9	5675.3	6085.8	7856.6	9735.0	9766.7	7635.0	3010.7	1149.2	719.7	545.6
77.5°	2431.4	2584.4	3393.8	5535.0	6972.3	6874.1	3935.2	1219.9	613.1	512.9	417.9
80°	701.8	761.9	1209.4	2631.9	4177.9	4104.0	1557.6	456.9	427.4	385.2	299.7
82.5°	226.9	251.2	443.2	1047.9	1872.1	1870.0	591.0	270.2	279.7	261.7	193.1
85°	63.3	72.8	136.1	317.6	579.4	567.7	171.0	127.7	148.8	150.9	96.0
87.5°	0.0	0.0	1.1	2.1	2.1	2.1	4.2	19.0	43.3	54.9	39.0
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°	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0	2081.0
2.5°	2093.7	2090.5	2133.8	2167.6	2199.2	2220.3	2226.7	2230.9	2239.3	2243.5	2239.3
5°	2108.5	2124.3	2196.1	2248.8	2291.0	2316.4	2317.4	2315.3	2321.6	2316.4	2313.2
7.5°	2140.1	2170.7	2261.5	2317.4	2344.9	2345.9	2320.6	2291.0	2276.3	2263.6	2259.4
10°	2182.3	2227.7	2326.9	2363.8	2355.4	2316.4	2260.4	2214.0	2187.6	2168.6	2164.4
12.5°	2240.4	2291.0	2385.0	2383.9	2331.1	2261.5	2196.1	2140.1	2102.1	2080.0	2072.6
15°	2295.3	2359.6	2427.2	2377.6	2294.2	2209.8	2125.4	2050.4	1999.8	1964.9	1958.6
17.5°	2362.8	2431.4	2457.8	2357.5	2247.8	2139.1	2026.2	1928.0	1859.4	1818.3	1815.1
20°	2440.9	2502.1	2472.5	2322.7	2187.6	2045.1	1892.1	1782.4	1708.5	1668.4	1671.6
22.5°	2531.6	2576.0	2476.8	2275.2	2104.2	1912.2	1741.2	1635.7	1586.1	1565.0	1566.0
25°	2628.7	2657.2	2469.4	2210.8	1976.6	1749.7	1586.1	1537.6	1533.3	1528.1	1530.2
27.5°	2743.8	2737.4	2447.2	2120.1	1804.5	1560.8	1477.4	1490.1	1507.0	1504.8	1507.0
30°	2897.8	2837.7	2418.7	1994.5	1599.8	1402.5	1413.0	1448.9	1471.1	1473.2	1479.5
32.5°	3074.1	2948.5	2373.3	1823.5	1404.6	1313.8	1352.9	1396.1	1422.5	1427.8	1436.2
35°	3284.1	3075.1	2293.1	1610.4	1264.2	1261.1	1296.9	1326.5	1355.0	1357.1	1357.1
37.5°	3525.7	3201.7	2165.5	1375.0	1177.7	1215.7	1249.5	1255.8	1263.2	1256.8	1260.0
40°	3747.3	3324.2	1983.9	1160.8	1107.0	1175.6	1204.1	1183.0	1159.8	1143.9	1147.1
42.5°	3933.1	3407.5	1743.3	1011.0	1035.2	1139.7	1161.9	1118.6	1073.2	1043.7	1047.9
45°	4142.0	3484.6	1460.5	909.7	974.0	1114.4	1129.2	1073.2	1015.2	970.9	964.5
47.5°	4430.1	3641.8	1209.4	839.0	930.8	1100.7	1124.9	1049.0	973.0	906.5	899.1
50°	4785.7	3864.5	999.4	792.5	910.7	1093.3	1123.9	1022.6	931.8	853.7	848.5
52.5°	5174.1	4081.9	844.2	756.6	890.7	1071.1	1118.6	993.0	888.6	804.1	797.8
55°	5432.6	4167.3	739.8	722.9	857.9	1036.3	1097.5	964.5	823.1	746.1	736.6
57.5°	5508.6	4057.6	666.9	692.3	815.7	987.8	1057.4	904.4	783.0	721.8	714.4
60°	5377.8	3781.1	621.6	666.9	769.3	925.5	987.8	869.6	751.4	696.5	691.2
62.5°	5008.4	3354.8	586.7	640.6	721.8	860.1	943.4	827.3	716.5	673.3	665.9
65°	4265.5	2751.1	558.2	613.1	676.4	797.8	894.9	785.1	678.6	645.8	637.4
67.5°	2983.3	1932.2	527.6	580.4	631.1	737.6	844.2	746.1	639.5	615.2	606.8
70°	1458.4	1024.7	490.7	542.4	582.5	676.4	793.6	698.6	587.8	574.1	562.5
72.5°	694.4	573.0	447.4	490.7	516.0	595.2	709.2	630.0	526.6	497.0	477.0
75°	465.4	407.3	390.5	429.5	435.8	499.2	607.8	543.5	464.3	430.6	413.7
77.5°	352.5	311.3	328.2	363.0	350.4	410.5	500.2	484.4	418.9	388.3	379.9
80°	248.0	226.9	260.7	281.8	272.3	349.3	450.6	414.7	345.1	311.3	305.0
82.5°	156.2	152.0	192.1	195.2	198.4	276.5	370.4	326.1	268.0	220.6	204.7
85°	78.1	86.5	115.0	115.0	114.0	142.5	211.1	183.6	144.6	115.0	111.9
87.5°	26.4	36.9	49.6	40.1	30.6	24.3	27.4	33.8	35.9	34.8	34.8
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)