

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: P633280

Luminaire Tested: GWS-SA2E-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633280
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-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13900.5 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

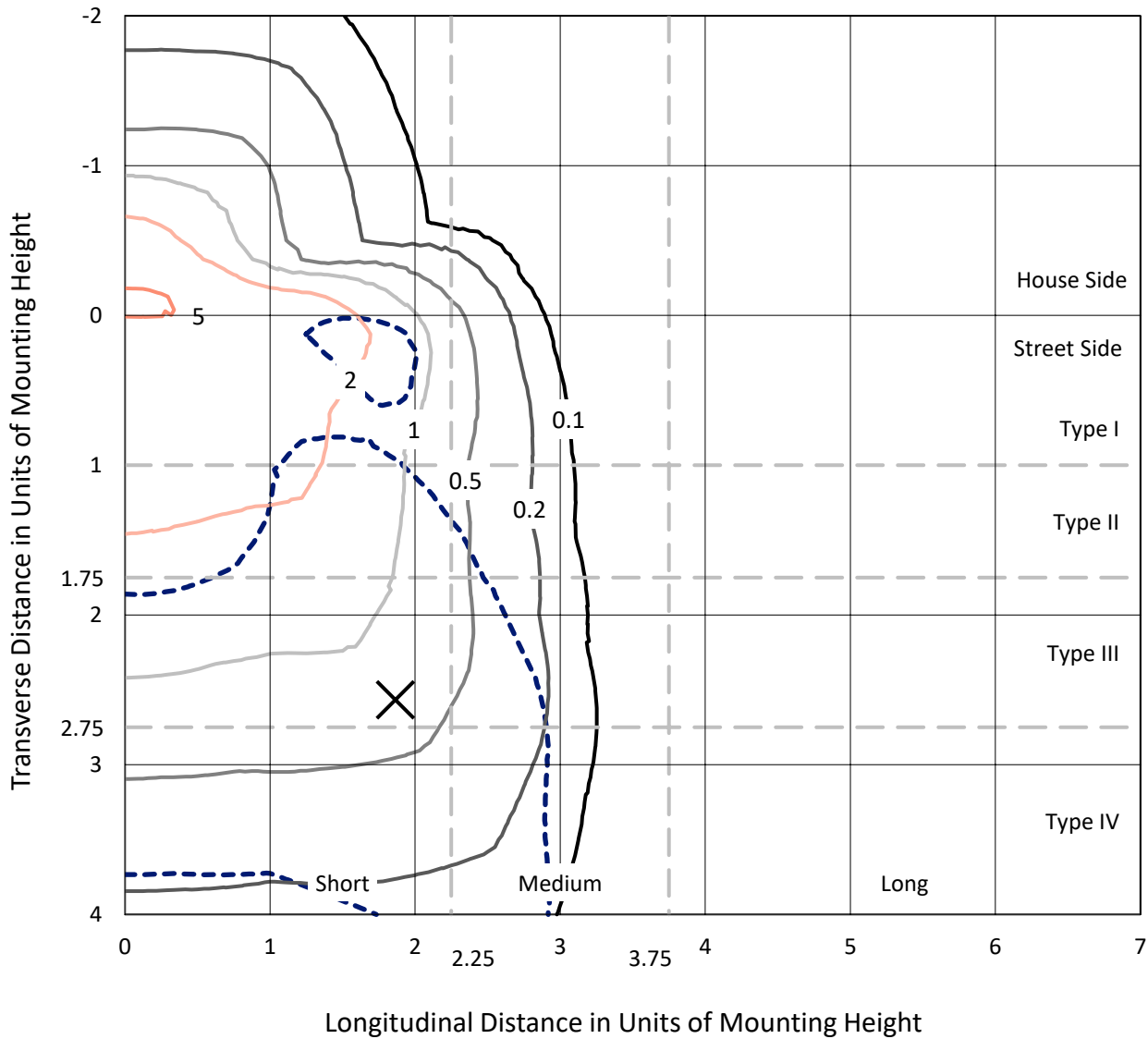
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633280
 CATALOG NUMBER: GWS-SA2E-735-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination

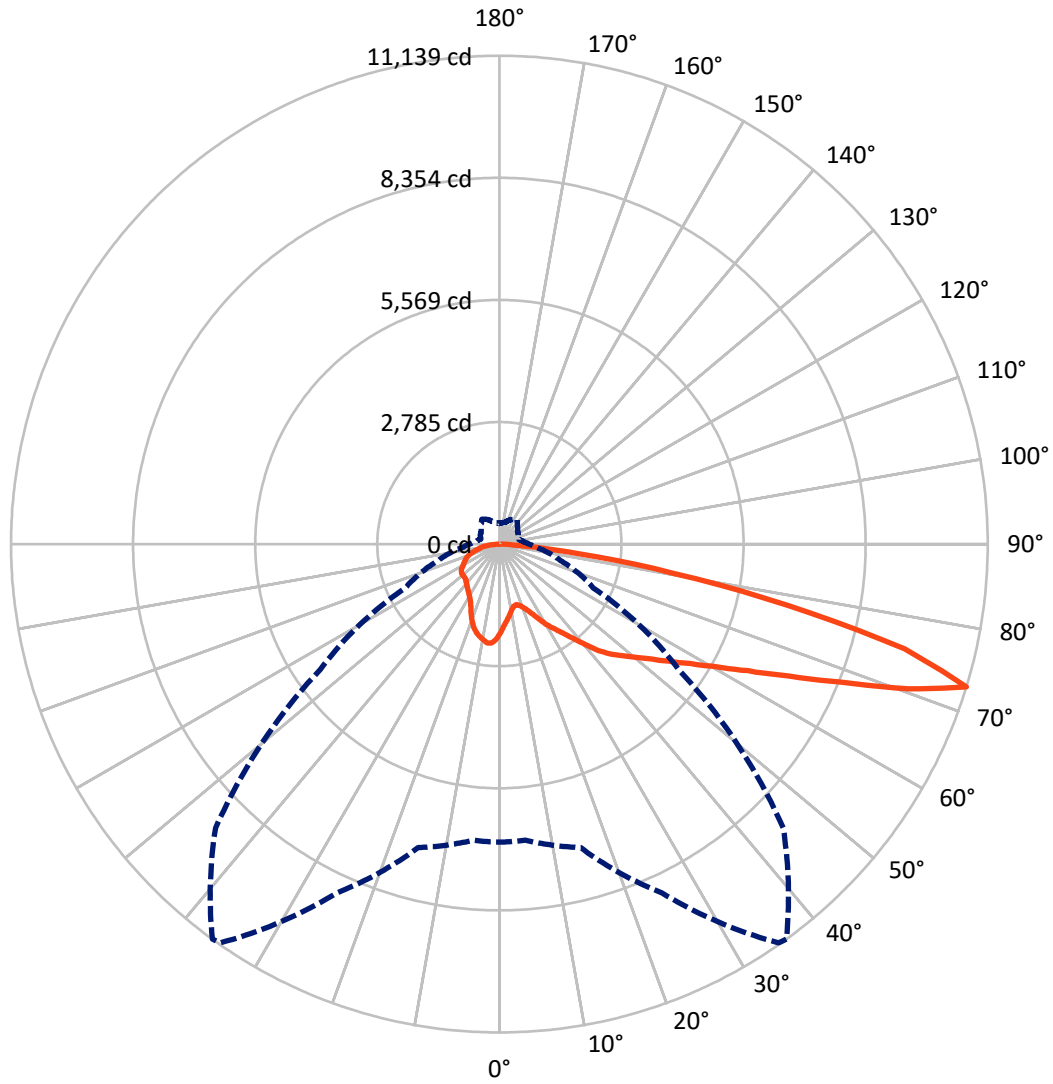
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P633280
CATALOG NUMBER: GWS-SA2E-735-U-T4FT-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633280

CATALOG NUMBER: GWS-SA2E-735-U-T4FT-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3204.7	0.0	3204.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	10695.8	0.0	10695.8
	% Fixture	76.9	0.0	76.9
Total	Lumens	13900.5	0.0	13900.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	1.4
10°-20°	536.5	3.9
20°-30°	888.5	6.4
30°-40°	1330.7	9.6
40°-50°	1941.3	14.0
50°-60°	2763.1	19.9
60°-70°	3491.0	25.1
70°-80°	2487.6	17.9
80°-90°	271.6	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°	13900.5	100.0
0°-180°	13900.5	100.0

Coefficient of Utilization



REPORT NUMBER: P633280

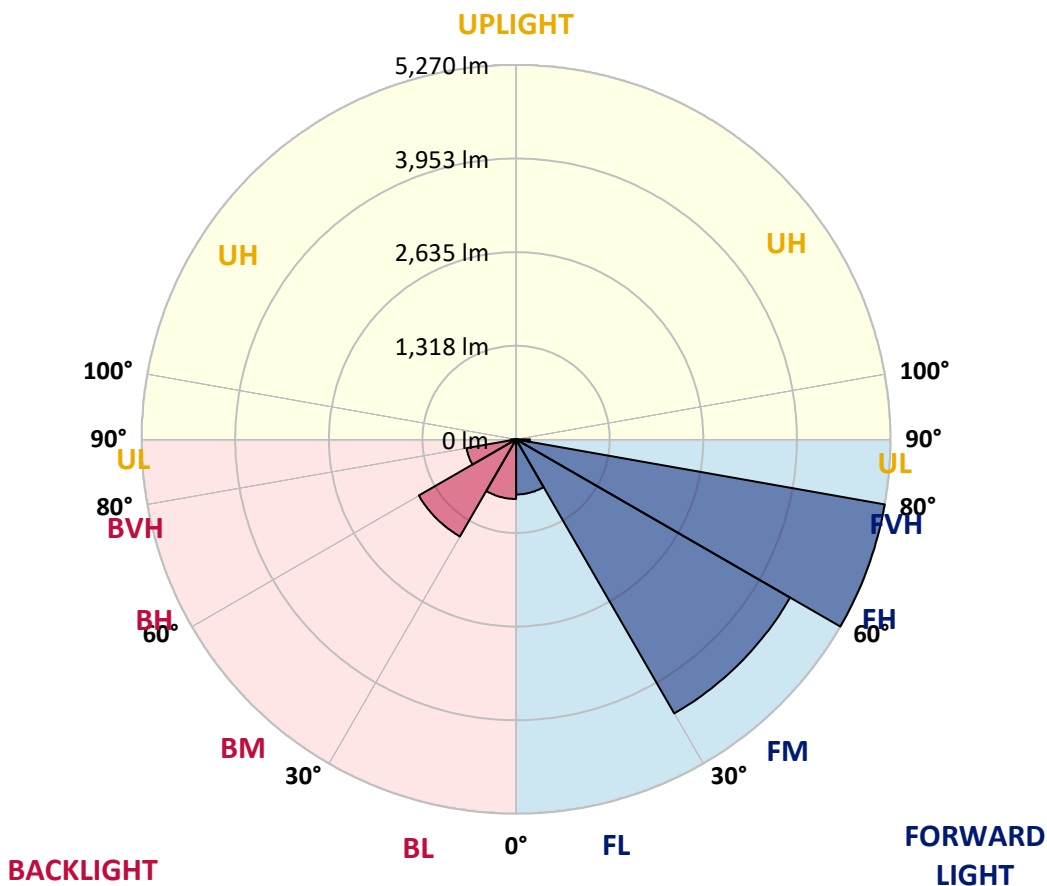
CATALOG NUMBER: GWS-SA2E-735-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.0	5.6			
FM (30°-60°)	4454.8	32.0			
FH (60°-80°)	5270.1	37.9			G3/7500
FVH (80°-90°)	194.9	1.4			G2/225
BL (0°-30°)	839.2	6.0	B2/1000		
BM (30°-60°)	1580.4	11.4	B2/2500		
BH (60°-80°)	708.5	5.1	B2/1000		G2/1000
BVH (80°-90°)	76.6	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





REPORT NUMBER: P633280
 CATALOG NUMBER: GWS-SA2E-735-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4
2.5°	1855.9	1852.8	1846.6	1865.2	1883.8	1881.7	1907.5	1932.3	1959.1	1986.9	2024.1
5°	1707.4	1705.3	1700.1	1728.0	1755.9	1754.8	1797.1	1837.4	1892.0	1951.9	2026.1
7.5°	1558.8	1553.7	1560.9	1596.0	1635.2	1639.3	1697.1	1763.1	1842.5	1932.3	2037.5
10°	1427.8	1426.8	1429.9	1469.1	1527.9	1532.0	1606.3	1698.1	1803.3	1923.0	2063.3
12.5°	1393.7	1391.7	1383.4	1403.0	1447.4	1453.6	1535.1	1647.5	1776.5	1928.1	2098.4
15°	1449.5	1444.3	1415.4	1406.1	1427.8	1433.0	1502.1	1617.6	1761.0	1937.4	2142.7
17.5°	1545.4	1542.3	1487.6	1449.5	1463.9	1468.0	1519.6	1612.5	1756.9	1956.0	2197.4
20°	1685.7	1672.3	1586.7	1528.9	1528.9	1535.1	1566.0	1635.2	1762.0	1978.7	2259.3
22.5°	1871.4	1844.6	1723.9	1645.5	1624.8	1633.1	1646.5	1691.9	1783.7	2016.9	2336.7
25°	2079.8	2055.0	1911.6	1801.2	1772.4	1775.5	1764.1	1772.4	1831.2	2069.5	2432.6
27.5°	2301.6	2285.1	2132.4	1992.1	1946.7	1946.7	1906.5	1886.9	1897.2	2129.3	2539.9
30°	2499.7	2477.0	2348.0	2194.3	2134.5	2134.5	2058.1	2015.8	1991.1	2202.6	2683.3
32.5°	2603.9	2590.5	2504.8	2387.2	2314.0	2302.6	2236.6	2187.1	2129.3	2310.9	2877.3
35°	2740.0	2736.9	2685.4	2593.6	2500.7	2484.2	2438.8	2399.6	2299.5	2446.0	3135.2
37.5°	2911.3	2906.1	2897.9	2843.2	2731.8	2728.7	2688.5	2641.0	2511.0	2641.0	3447.8
40°	3103.2	3093.9	3083.6	3082.5	3015.5	3004.1	3001.1	2947.4	2765.8	2876.2	3773.8
42.5°	3367.3	3335.3	3238.3	3281.7	3331.2	3320.9	3360.1	3279.6	3083.6	3155.8	4082.2
45°	3692.3	3613.8	3422.0	3434.3	3559.2	3579.8	3716.0	3696.4	3433.3	3478.7	4407.2
47.5°	3887.2	3819.1	3640.7	3630.4	3786.1	3811.9	4108.0	4145.1	3809.9	3867.6	4808.5
50°	4047.1	3999.7	3853.2	3867.6	4032.7	4058.5	4496.9	4576.4	4164.7	4265.8	5274.8
52.5°	4240.1	4172.0	4058.5	4126.6	4328.8	4359.7	4929.2	5014.8	4484.6	4703.3	5757.6
55°	4348.4	4320.5	4322.6	4426.8	4680.6	4722.9	5382.1	5367.6	4777.5	5077.7	6120.7
57.5°	4598.0	4587.7	4682.6	4721.8	5091.2	5145.8	5835.0	5711.2	5043.7	5367.6	6295.1
60°	5038.5	5012.8	5095.3	5155.1	5598.7	5676.1	6340.5	6047.5	5224.2	5583.3	6236.3
62.5°	5657.5	5625.6	5628.6	5723.6	6278.6	6360.1	6902.7	6328.1	5280.0	5616.3	5863.9
65°	6427.1	6380.7	6328.1	6457.1	7181.3	7249.4	7514.5	6532.4	5146.9	5298.5	5086.0
67.5°	7239.0	7200.9	7139.0	7409.3	8350.1	8391.4	8200.5	6514.8	4724.9	4448.4	3567.4
70°	7286.5	7295.8	7588.8	8566.8	9875.9	9886.2	8849.4	6162.0	3826.4	2883.4	1777.5
72.5°	6797.5	6782.0	7163.7	8778.3	11103.6	11138.7	9155.8	4992.1	2364.5	1438.1	833.6
75°	5521.4	5548.2	5949.5	7680.6	9516.9	9547.9	7463.9	2943.3	1123.5	703.6	533.4
77.5°	2376.9	2526.5	3317.8	5411.0	6816.1	6720.1	3847.0	1192.6	599.4	501.4	408.5
80°	686.0	744.8	1182.3	2572.9	4084.3	4012.1	1522.7	446.7	417.8	376.5	293.0
82.5°	221.8	245.5	433.3	1024.4	1830.1	1828.1	577.7	264.1	273.4	255.8	188.8
85°	61.9	71.2	133.1	310.5	566.4	555.0	167.1	124.8	145.5	147.5	93.9
87.5°	0.0	0.0	1.0	2.1	2.1	2.1	4.1	18.6	42.3	53.6	38.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633280
 CATALOG NUMBER: GWS-SA2E-735-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4
2.5°	2046.8	2043.7	2086.0	2119.0	2149.9	2170.6	2176.8	2180.9	2189.1	2193.3	2189.1
5°	2061.2	2076.7	2146.8	2198.4	2239.7	2264.5	2265.5	2263.4	2269.6	2264.5	2261.4
7.5°	2092.2	2122.1	2210.8	2265.5	2292.3	2293.3	2268.6	2239.7	2225.3	2212.9	2208.7
10°	2133.4	2177.8	2274.8	2310.9	2302.6	2264.5	2209.8	2164.4	2138.6	2120.0	2115.9
12.5°	2190.2	2239.7	2331.5	2330.5	2278.9	2210.8	2146.8	2092.2	2055.0	2033.4	2026.1
15°	2243.8	2306.8	2372.8	2324.3	2242.8	2160.3	2077.7	2004.5	1955.0	1920.9	1914.7
17.5°	2309.8	2376.9	2402.7	2304.7	2197.4	2091.1	1980.8	1884.8	1817.8	1777.5	1774.4
20°	2386.2	2446.0	2417.1	2270.6	2138.6	1999.3	1849.7	1742.4	1670.2	1631.0	1634.1
22.5°	2474.9	2518.2	2421.3	2224.2	2057.1	1869.3	1702.2	1599.0	1550.6	1529.9	1531.0
25°	2569.8	2597.7	2414.0	2161.3	1932.3	1710.5	1550.6	1503.1	1499.0	1493.8	1495.9
27.5°	2682.3	2676.1	2392.4	2072.6	1764.1	1525.8	1444.3	1456.7	1473.2	1471.1	1473.2
30°	2832.9	2774.1	2364.5	1949.8	1564.0	1371.1	1381.4	1416.4	1438.1	1440.2	1446.4
32.5°	3005.2	2882.4	2320.2	1782.7	1373.1	1284.4	1322.6	1364.9	1390.7	1395.8	1404.1
35°	3210.5	3006.2	2241.8	1574.3	1235.9	1232.8	1267.9	1296.8	1324.6	1326.7	1326.7
37.5°	3446.7	3130.0	2116.9	1344.2	1151.3	1188.5	1221.5	1227.7	1234.9	1228.7	1231.8
40°	3663.4	3249.7	1939.5	1134.8	1082.2	1149.3	1177.1	1156.5	1133.8	1118.3	1121.4
42.5°	3844.9	3331.2	1704.3	988.3	1012.0	1114.2	1135.8	1093.5	1049.2	1020.3	1024.4
45°	4049.2	3406.5	1427.8	889.3	952.2	1089.4	1103.9	1049.2	992.4	949.1	942.9
47.5°	4330.8	3560.2	1182.3	820.2	909.9	1076.0	1099.7	1025.5	951.2	886.2	879.0
50°	4678.5	3777.9	977.0	774.8	890.3	1068.8	1098.7	999.7	910.9	834.6	829.4
52.5°	5058.1	3990.4	825.3	739.7	870.7	1047.1	1093.5	970.8	868.6	786.1	779.9
55°	5310.9	4074.0	723.2	706.7	838.7	1013.1	1072.9	942.9	804.7	729.4	720.1
57.5°	5385.2	3966.7	652.0	676.8	797.5	965.6	1033.7	884.1	765.5	705.6	698.4
60°	5257.3	3696.4	607.6	652.0	752.1	904.8	965.6	850.1	734.5	680.9	675.7
62.5°	4896.2	3279.6	573.6	626.2	705.6	840.8	922.3	808.8	700.5	658.2	651.0
65°	4169.9	2689.5	545.7	599.4	661.3	779.9	874.8	767.5	663.3	631.4	623.1
67.5°	2916.5	1888.9	515.8	567.4	616.9	721.1	825.3	729.4	625.2	601.4	593.2
70°	1425.7	1001.7	479.7	530.3	569.5	661.3	775.8	682.9	574.6	561.2	549.9
72.5°	678.8	560.2	437.4	479.7	504.5	581.8	693.3	615.9	514.8	485.9	466.3
75°	455.0	398.2	381.7	419.9	426.1	488.0	594.2	531.3	453.9	420.9	404.4
77.5°	344.6	304.3	320.8	354.9	342.5	401.3	489.0	473.5	409.6	379.6	371.4
80°	242.4	221.8	254.8	275.4	266.2	341.5	440.5	405.4	337.3	304.3	298.1
82.5°	152.7	148.6	187.8	190.9	193.9	270.3	362.1	318.8	262.0	215.6	200.1
85°	76.3	84.6	112.4	112.4	111.4	139.3	206.3	179.5	141.3	112.4	109.4
87.5°	25.8	36.1	48.5	39.2	29.9	23.7	26.8	33.0	35.1	34.0	34.0
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)